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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	55755-402C07US
	Application Number	
Title of Invention	VAPORIZER	

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
	Jan	Andries	Verleur	

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

City	Miami	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

Address 1	660 20th Street, Building 104		
Address 2			
City	San Francisco	State/Province	CA
Postal Code	94107	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Dan		Recio	

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

City	Miami Beach	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

Address 1	660 20th Street, Building 104		
Address 2			
City	San Francisco	State/Province	CA
Postal Code	94107	Country	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Yifeng		Lu	

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

NJOY Exhibit 1007.001

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	55755-402C07US
	Application Number	
Title of Invention	VAPORIZER	

City	MIAMI, FL	State/Province		Country of Residence	US

Mailing Address of Inventor:

Address 1	560 20th Street, Building 104		
Address 2			
City	San Francisco	State/Province	CA
Postal Code	94107	Country	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Yinjun		Zhang	

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

City	MIAMI, FL	State/Province		Country of Residence	US

Mailing Address of Inventor:

Address 1	560 20th Street, Building 104		
Address 2			
City	San Francisco	State/Province	CA
Postal Code	94107	Country	US

Inventor 5 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Arturo		Fajardo	

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

City	MIAMI, FL	State/Province		Country of Residence	US

Mailing Address of Inventor:

Address 1	560 20th Street, Building 104		
Address 2			
City	San Francisco	State/Province	CA
Postal Code	94107	Country	US

Inventor 6 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Hans		Verleur	

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

City	El Dorado, California	State/Province		Country of Residence	US

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	55755-402C07US
	Application Number	
Title of Invention	VAPORIZER	

Mailing Address of Inventor:

Address 1	660 20th Street, Building 104		
Address 2			
City	San Francisco	**State/Province**	CA
Postal Code	94107	**Country** i	US

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	148514		
Email Address	IPDocketingBOS@mintz.com	Add Email	Remove Email

Application Information:

Title of the Invention	VAPORIZER		
Attorney Docket Number	55755-402C07US	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	18	**Suggested Figure for Publication (if any)**	

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.

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	Application Number	
Title of Invention	VAPORIZER	

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	30623		

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	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	14/201267	2018-11-16
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14/201267	Continuation of	14/196729	2018-08-31
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14/196729	Claims benefit of provisional	61/937851	2014-02-10
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14/196729	Claims benefit of provisional	61/903344	2013-11-12

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

Foreign Priority Information:

PTO/AIA/14 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	55755-402C07US
	Application Number	
Title of Invention	VAPORIZER	

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)

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

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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	55755-402C07US
	Application Number	
Title of Invention	VAPORIZER	

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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	55755-402C07US
	Application Number	
Title of Invention	VAPORIZER	

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 — Remove

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	VMR Products LLC		
Mailing Address Information For Applicant:			
Address 1	560 20th Street, Building 104		
Address 2			
City	San Francisco	**State/Province**	CA
Country	US	Postal Code	94107
Phone Number		Fax Number	
Email Address			

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

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.

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
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	55755-402C07US
	Application Number	
Title of Invention	VAPORIZER	

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.

Remove

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. Add

Signature:

Remove

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	/FCH/			Date (YYYY-MM-DD)	2020-11-11
First Name	Fred	Last Name	Hernandez	Registration Number	41,832

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	55755-402C07US
	Application Number	
Title of Invention	VAPORIZER	

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.

NJOY Exhibit 1007.010

AMENDMENTS TO THE SPECIFICATION

Please amend paragraph [0001] as follows:

[0001] This application is a continuation of U.S. Application Serial No. 14/201,267, filed March 7, 2014, which is a continuation of U.S. Application Serial No. 14/196,729 filed March 4, 2014, now U.S. Patent No. 10,039,321, which claims the benefit of U.S. Provisional Application Nos. 61/903,344 filed November 12, 2013, and 61/937,851, filed February 10, 2014, the disclosures of which are hereby incorporated herein by reference in their entireties.

NJOY Exhibit 1007.011

Electronic Acknowledgement Receipt

EFS ID:	41099141
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	JAN ANDRIES VERLEUR
Customer Number:	148514
Filer:	Fred C. Hernandez/Teri Barnett
Filer Authorized By:	Fred C. Hernandez
Attorney Docket Number:	55755-402C07US
Receipt Date:	11-NOV-2020
Filing Date:	
Time Stamp:	18:09:34
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	Application Data Sheet	55755_402C07US_ADS.PDF	1256299 f18cb325c228738bcc134a25d252ebd007726979	no	10

Warnings:

Information:					
2		55755_402C07US_Preliminary_Amendment.pdf	112968 86f75ba2d1683321a6167981681574992535 3d81	yes	3
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Applicant Arguments/Remarks Made in an Amendment		3	3	
	Specification		2	2	
	Preliminary Amendment		1	1	
Warnings:					
Information:					
3		55755_402C07US_Application.PDF	153490 52b66d430087a3cafe102c62f21246ea92087762	yes	29
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Abstract		29	29	
	Claims		27	28	
	Specification		1	26	
Warnings:					
Information:					
4	Drawings-other than black and white line drawings	55755_402C07US_Drawings.pdf	3828815 d36a8d0f8f776188693c1f4ec0d3f661111006e3	no	18
Warnings:					
Information:					
5	Oath or Declaration filed	55755_402C07US_Declarations.pdf	466613 1e2c16e3c138b5daf4593c35f7f570dfe42b2826	no	6
Warnings:					
Information:					

6	Power of Attorney	55755_402C07US_POA.PDF	874231 33faa009d7b92e4c7b2a132fbd93681e3015b21b	no	1
Warnings:					
Information:					
			Total Files Size (in bytes):	6692416	

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.

REMARKS

Applicant respectfully requests entry of this Amendment. The specification has been amended to update the priority information. No new matter is added with the entry of this amendment.

If the Examiner believes a telephone conference would expedite prosecution of this application, please contact the undersigned.

Dated: November 11, 2020

Respectfully submitted,

Electronic signature: /FCH/
Fred C. Hernandez
Registration No.: 41,832
MINTZ LEVIN COHN FERRIS GLOVSKY
AND POPEO, P.C.
3580 Carmel Mountain Road
Suite 300
San Diego, California 92130-6768
(858) 314-1500
(858) 314-1501 (Fax)
Attorney for Applicant

NJOY Exhibit 1007.015

Doc Code: PA..
Document Description: Power of Attorney

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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: 148514

OR

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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	/tdd/	Date (Optional)	10/4/18
Name	Timothy S. Danaher		
Title	Manager		

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What is Claimed:

1. A vaporizer comprising: a shell comprising a battery portion and a cartomizer receiving portion, said battery portion comprising a rechargeable battery and electronic control circuitry; and charging contacts, wherein the charging contacts are attached essentially transversely to said shell at an end distal to the cartomizer receiving portion and proximate to said battery portion;

wherein the charging contacts include a positive electrical contact and a negative electrical contact insulated from each other and a first magnet, each proximately disposed at the exterior surface of said charging contacts for contacting a compatible charger in order to charge the rechargeable battery.

2. A vaporizer charger comprising: a housing, a power source portion and charging contacts, wherein said charging contacts are attached to the housing, said contacts including a positive electrical contact and a negative electrical contact insulated from each other and a magnet, each proximately disposed at the exterior surface of said charging contacts for charging a rechargeable battery of a vaporizer compatible with said charger.

3. A kit comprising: a vaporizer charger according to Claim 2 and operation instructions.

4. A kit of Claim 3 further comprising a vaporizer, said vaporizer comprising: a shell comprising a battery portion and a cartomizer receiving portion, said battery portion comprising a rechargeable battery and electronic control circuitry; and charging contacts, wherein the charging contacts are attached essentially transversely to said shell at an end distal to the cartomizer receiving portion and proximate to said battery portion;

wherein the charging contacts include a positive electrical contact and a negative electrical contact insulated from each other and a first magnet, each proximately disposed at the exterior surface of said charging contacts for contacting said charger in order to charge the rechargeable battery.

5. A method of charging a vaporizer, comprising: connecting a charger to a power supply and contacting a charging contact of the charger with a charging contact of a vaporizer of Claim 1.

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6. A vaporizer charger of Claim 2 wherein at least one of the positive electrical contact and the negative electrical contact contains gold.

7. A vaporizer charger of Claim 2, wherein the power source portion comprises a USB plug for connecting to a power supply.

8. A vaporizer charger of Claim 2, wherein the at least one of the positive electrical contact and the negative electrical contact comprises a pogo pin.

9. A vaporizer charger of Claim 2, wherein the at least one of the positive electrical contact and the negative electrical contact further comprises a wiper contact.

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ABSTRACT

Vaporizer and/or electronic cigarette chargers useful for the recharging of rechargeable vaporizer or electronic cigarette power supplies such as batteries, compatible vaporizers and/or electronic cigarettes, their components, charging contacts, methods of their use and kits containing such chargers are disclosed.

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VAPORIZER, CHARGER AND METHODS OF USE

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. application Serial No. 14/196,729, filed March 4, 2014 which claims the benefit of U.S. Provisional Application Nos. 61/903,344 filed November 12, 2013, and 61/937,851, filed February 10, 2014, the disclosures of which are hereby incorporated herein by reference in their entireties.

FIELD OF THE INVENTION

[0002] This invention relates to the field of vaporizers, which may also be referred to as electronic cigarettes.

BACKGROUND

[0003] Electronic cigarettes have recently emerged as a new product for providing nicotine through a smokeless inhalation process. Typically, implementations consist of a power supply (typically a battery) and an atomizing device. In reusable electronic cigarettes the two items are separated into a battery and a cartomizer, to allow the disposal and replacement of a nicotine containing fluid cartomizer while preserving the more costly battery and associated circuitry (microcontroller, switch, indicating LED, etc.) for additional use. In disposable electronic cigarettes, the two items are combined to integrate the functions into one unit that is discarded after either the battery energy or the nicotine containing liquid is exhausted.

[0004] The electronic cigarette liquid used to vaporize ingredients such as nicotine is generally a solution of propylene glycol (PG), vegetable glycerin (VG), or polyethylene glycol 400 (PEG400), as well as their mixtures to which a flavor and/or nicotine has been added. The solution is often sold in a bottle (for refilling by the user) or in disposable cartridges or cartomizers. Many different flavors are incorporated into these liquids, including those that resemble the taste of regular tobacco, menthol, vanilla, coffee, cola and/or various fruits. Various nicotine concentrations are also available, and nicotine-free solutions are also common.

BRIEF SUMMARY

[0005] One embodiment of a vaporizer, in accordance with the disclosure, may include a shell having a battery segment and a cartomizer receiving segment, the cartomizer receiving segment may define a chamber having an insertion end distal to the battery segment of said shell

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and a base end proximate to the battery segment, the chamber dimensioned to receive a cartomizer inserted into the chamber at the insertion end of the chamber. The vaporizer may also include a battery housed within the battery segment. The vaporizer may further include electrical contacts provided between the base end of the chamber and the battery portion, the electrical contacts including a positive contact and a negative contact insulated from the positive contact. Electronic circuitry may be housed within the battery segment of said shell and operable to direct an electrical current between the battery and the electrical contacts. Additionally, a chamber magnet may be provided in or proximate to the chamber, the chamber magnet operable to secure a cartomizer received within the chamber, wherein the cartomizer includes either a metallic surface or a cartomizer magnet having a polarity opposite to that of the chamber magnet. The electrical contacts and battery may each be in electrical connection with said electronic circuitry. The cartomizer may be securable within the chamber as a cartomizer surface and a magnetically attracted chamber surface are placed adjacent to one another.

[0006] In another embodiment of a vaporizer, in accordance with the disclosure, the vaporizer may include a shell having a battery segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery segment and a base end proximate to the battery segment. The vaporizer may further include a cartomizer insertable into the chamber at the insertion end, and the cartomizer may include a cartomizer body dimensioned to hold a vaporizable substance, a heating element provided within or proximate to the cartomizer body operable to heat the vaporizable substance, cartomizer electrical contacts provided on the exterior of the cartomizer, cartomizer electrical circuitry operable to direct an electronic current between the cartomizer electrical contacts and the heating element, and a mouthpiece in fluid communication with the cartomizer body, the mouthpiece extending from the insertion end of the chamber when the cartomizer is inserted in the chamber. The heating element may be activated by the current and is operable to heat the vaporizable substance to a vaporization temperature. A battery may be housed within the battery segment. The vaporizer may also include battery electrical contacts provided between the base end of the chamber and the battery segment, the battery electrical contacts positioned to contact the cartomizer electrical contacts when the cartomizer is inserted in the chamber. Additionally, the vaporizer may include battery electrical circuitry housed within the battery segment and operable

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to direct an electrical current between the battery, the battery electrical contacts, the cartomizer electrical contacts, the heating element, and the inserted cartomizer.

BRIEF DESCRIPTION OF THE FIGURES

[0007] FIG. 1 illustrates a front view of an embodiment of an electronic cigarette of the disclosure comprising a first embodiment of a battery portion with an embodiment of a cartomizer for use with a vaporizable liquid inserted into a cartomizer chamber of the first embodiment battery portion, the outer shell of the first embodiment battery portion shown transparently so as to illustrate the inner components of the electronic cigarette.

[0008] FIG. 1A illustrates a lateral cross sectional view of the electronic cigarette of FIG. 1 illustrating an electrical connector and magnets.

[0009] FIG. 1B illustrates a lateral cross sectional view of the electronic cigarette of FIG. 1 illustrating the end of the inserted cartomizer.

[0010] FIG. 1C illustrates a lateral cross sectional view of the electronic cigarette of FIG. 1 illustrating the cartomizer chamber.

[0011] FIG. 2 illustrates a front view of an embodiment of a cartomizer in accordance with the disclosure that may be inserted into the cartomizer chamber of the battery portion of FIG. 1, the outer shell of the first embodiment battery portion shown transparently so as to illustrate the inner components of the electronic cigarette.

[0012] FIG. 2A illustrates a lateral cross sectional view of the cartomizer of FIG. 2 illustrating the end of the cartomizer at the inserted end.

[0013] FIG. 2B illustrates a lateral cross sectional view of the cartomizer of FIG. 2 illustrating the air hole structure.

[0014] FIG. 3 illustrates a front view of an embodiment of the battery portion of FIG. 1 with an embodiment of a charger, in accordance with the disclosure, inserted into the cartomizer chamber, with the outer shell of the first embodiment battery portion shown transparently so as to illustrate the inner components of the electronic cigarette.

[0015] FIGS 4-7 illustrate embodiments of electronic cigarettes comprising the first battery portion of FIGS. 1-3 and the cartomizers of FIGS. 1 and 2, in accordance with the disclosure .

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[0016] FIG. 8 illustrates a front view of an embodiment of an electronic cigarette, in accordance with the disclosure, comprising a second embodiment of a battery portion with the outer shell of the second embodiment battery portion shown transparently so as to illustrate the inner components of the electronic cigarette.

[0017] FIG. 9 illustrates a front view of the electronic cigarette of FIG. 8 with a charger attached, with the outer shell of the second embodiment battery portion shown transparently so as to illustrate the inner components of the electronic cigarette.

[0018] FIG. 10 illustrates a front cross sectional view of an embodiment of a cartomizer in accordance with the disclosure.

[0019] FIG. 11 illustrates a front view of an embodiment of a cartomizer in accordance with the disclosure.

[0020] FIG. 12 illustrates embodiments of electronic cigarettes comprising the second battery portion of FIGS. 8-9 and the cartomizers of FIGS. 8-10.

[0021] FIG. 13 illustrates a front view of an embodiment of an electronic cigarette in accordance with the disclosure, with the outer shell of the embodiment of the battery portion shown transparently so as to illustrate the inner components of the electronic cigarette.

[0022] FIG. 14 illustrates a front view of the electronic cigarette of FIG. 13 with a charger attached.

[0023] FIG. 15 illustrates embodiments of the electronic cigarette of FIGS. 13-14 in accordance with the disclosure.

[0024] FIG. 16 illustrates a longitudinal cross sectional view of an embodiment of charger contacts on a power cord of a vaporizer or electronic cigarette charger of the present invention.

[0025] FIG. 17 illustrates a perspective view of an embodiment of charger contacts on a power cord of a vaporizer or electronic cigarette charger of the present invention.

[0026] FIG. 18 illustrates a lateral view of an embodiment of charger contacts on a power cord of a vaporizer or electronic cigarette charger of the present invention.

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[0027] FIG. 19 illustrates a longitudinal cross sectional view of an embodiment of charger contacts of a vaporizer or electronic cigarette for connecting with a vaporizer or electronic cigarette charger of the present invention.

[0028] FIG. 20 illustrates a lateral cross sectional view of an embodiment of charger contacts on a vaporizer or electronic cigarette for connecting with a vaporizer or electronic cigarette charger of the present invention.

[0029] FIG. 21 illustrates a perspective view of an embodiment of charger contacts on a power cord of a vaporizer or electronic cigarette charger of the present invention.

[0030] FIG. 22 illustrates a side view of an embodiment of a charger of the present invention in contact with charger contacts of a vaporizer or electronic cigarette for charging a vaporizer or electronic cigarette battery.

DETAILED DESCRIPTION

[0031] The following detailed description and the appended drawings describe and illustrate exemplary embodiments of the invention solely for the purpose of enabling one of ordinary skill in the relevant art to make and use the invention. As such, the detailed description and illustration of these embodiments are purely exemplary in nature and are in no way intended to limit the scope of the invention, or its protection, in any manner. It should also be understood that the drawings are not to scale and in certain instances details have been omitted, which are not necessary for an understanding of the present invention, such as conventional details of fabrication and assembly.

[0032] One embodiment of a vaporizer, in accordance with the disclosure, may include a shell having a battery segment and a cartomizer receiving segment, the cartomizer receiving segment may define a chamber having an insertion end distal to the battery segment of said shell and a base end proximate to the battery segment, the chamber dimensioned to receive a cartomizer inserted into the chamber at the insertion end of the chamber. The vaporizer may also include a battery housed within the battery segment. The vaporizer may further include electrical contacts provided between the base end of the chamber and the battery portion, the electrical contacts including a positive contact and a negative contact insulated from the positive contact. Electronic circuitry may be housed within the battery segment of said shell and operable to direct

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an electrical current between the battery and the electrical contacts. Additionally, a chamber magnet may be provided in or proximate to the chamber, the chamber magnet operable to secure a cartomizer received within the chamber, wherein the cartomizer includes either a metallic surface or a cartomizer magnet having a polarity opposite to that of the chamber magnet. The electrical contacts and battery may each be in electrical connection with said electronic circuitry. The cartomizer may be securable within the chamber as a cartomizer surface and a magnetically attracted chamber surface are placed adjacent to one another.

[0033] In some embodiments, the chamber magnet may be provided proximate to the base end of the chamber, the chamber magnet insulated from the electrical contacts. The vaporizer may further include an additional chamber magnet provided proximate to the base end of the chamber, the additional chamber magnet insulated from the electrical contacts and the chamber magnet, the additional chamber magnet having a polarity opposite to that of the chamber magnet. The electronic circuitry may include a printed circuit board.

[0034] Additional embodiments of the vaporizer may include an activation button provided on the exterior of the shell in electrical communication with the electronic circuitry, the electrical contacts and the battery, wherein manipulation of the activation button by a user of the vaporizer operates to control the current from the battery to the electronic contacts; a printed circuit board; and an indicator ring surrounding at least a portion of the activation button, the indicator ring in electrical communication with the electronic circuitry, the electrical contacts and the battery, said indicator ring illuminable to indicate a state of the vaporizer, the indicator ring controllable by the printed circuit board, and the printed circuit board may be in electrical communication with the electrical contacts, the battery, the activation button and the indicator ring. The vaporizer may also include a display screen provided on the exterior of the shell, said display screen in electrical communication with said printed circuit board and battery, the display screen controlled by the printed circuit board and operable to display a message. At least one of the electrical contacts may be a spring-loaded pin extending into a portion of the chamber and retractable when pressed by the cartomizer when inserted into the chamber. The shell may include a window provided at the cartomizer receiving segment so that a portion of the chamber is visible from outside the shell.

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[0035] In another embodiment of a vaporizer, in accordance with the disclosure, the vaporizer may include a shell having a battery segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery segment and a base end proximate to the battery segment. The vaporizer may further include a cartomizer insertable into the chamber at the insertion end, and the cartomizer may include a cartomizer body dimensioned to hold a vaporizable substance, a heating element provided within or proximate to the cartomizer body operable to heat the vaporizable substance, cartomizer electrical contacts provided on the exterior of the cartomizer, cartomizer electrical circuitry operable to direct an electronic current between the cartomizer electrical contacts and the heating element, and a mouthpiece in fluid communication with the cartomizer body, the mouthpiece extending from the insertion end of the chamber when the cartomizer is inserted in the chamber. The heating element may be activated by the current and is operable to heat the vaporizable substance to a vaporization temperature. A battery may be housed within the battery segment. The vaporizer may also include battery electrical contacts provided between the base end of the chamber and the battery segment, the battery electrical contacts positioned to contact the cartomizer electrical contacts when the cartomizer is inserted in the chamber. Additionally, the vaporizer may include battery electrical circuitry housed within the battery segment and operable to direct an electrical current between the battery, the battery electrical contacts, the cartomizer electrical contacts, the heating element, and the inserted cartomizer.

[0036] In embodiments of the disclosure, the vaporizable substance may be a fluid, the heating element may include a wicking element for absorbing the fluid, and at least a portion of the cartomizer body may be composed of a translucent material. The cartomizer may further include a container provided within the cartomizer body and dimensioned to hold the vaporizable substance, wherein the heating element is provided exterior to at least a portion of the container and is operable to heat the container thereby heating the vaporizable substance to the vaporization temperature. The heating element may include conductive material intertwined with non-conductive material, and the conductive material may be in electrical communication with the cartomizer electronic circuitry. The vaporizer may further include a printed circuit board housed in the battery segment and in electrical communication with the battery electrical circuitry, and the cartomizer may further include a sensor in electrical communication with the cartomizer electrical circuitry, and the printed circuit board is operable to process environment

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information received from the sensor when the cartomizer is inserted into the chamber. The mouthpiece may be detachably connected to the cartomizer body. The cartomizer may further include a basin for holding the vaporizable substance, and the heating element may be provided proximate to the basin in order to heat the basin.

[0037] With reference now to FIGS. 1 and 2, an embodiment of an electronic cigarette 10 is provided in accordance with the disclosure. Electronic cigarette 10 may include a battery portion connectable with a vaporization unit or cartomizer 200 for holding a vaporizable substance 300. The battery portion may include a battery housing segment 102 provided proximate to the first end 102A of the battery portion, and a second cartomizer receiving segment 104 provided proximate a second end 104A of the battery portion. The battery portion may include an outer shell 106 for covering or protecting one or more of the components of battery portion 100 as may be internally provided as described herein. Outer shell 106 may be substantially constructed from metal, plastic, or any other known or to be developed material suitable for protecting internal components of electronic cigarette 10, including the electrical components described herein. Battery housing segment 102 and cartomizer receiving segment 104 may commonly share outer shell 106. A cartomizer chamber 108 may be provided within at least a portion of cartomizer receiving segment 104. A cartomizer 200 may be insertable into the cartomizer chamber 108 in accordance with embodiments of the disclosure. Shell 106 may cover cartomizer chamber 108 thereby protecting an inserted or received cartomizer 200.

[0038] Electrical components for operating electronic cigarette 10 may be provided within battery housing segment 102. A battery 110 may be provided in order to provide electrical power as may be required by various features of the electronic cigarette 10. In some embodiments, battery 110 may be disposable, such as an AA or AAA cell battery, while in other embodiments, battery 110 may be of a rechargeable type, for example a 13450 lithium ion battery, an 18650 2600mAh lithium ion cell, or flat lithium ion 903180 cell rated at 2300 mAh. Multiple batteries 110 may be used in series to generate higher voltages capable of shortening times to achieve vaporization temperatures in the cartomizer 200. A printed circuit board (PCB) 112 may also be provided for controlling one or more functions of electronic cigarette 10. PCB 112 may be electrically connected to battery 110 through circuitry in order to direct current flow as required in accordance with the disclosure. PCB 112 may include one or more integrated circuit chips as well as a micro control unit. A boost chip may also be provided in order to amplify voltage with

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at least portion of circuitry, as may be required in order to accomplish various functions described herein. PCB 112 may include a light emitting diode (LED), a microcontroller, a plurality of capacitors, a plurality of transistors, and a plurality of resistors or any combination thereof. An accelerometer for sensing gravity shifts of electronic cigarette 10 may be further provided. The accelerometer may be operable to detect tilting or changes in orientation of battery portion 100, and PCB 112 may be accordingly operable to react to a shift in orientation detected by the accelerometer. For instance, electronic cigarette 10 including an accelerometer may be activated by shaking or inverting electronic cigarette 10. Any known or to be discovered circuitry or arrangement of the components of PCB 112 are contemplated within the disclosure in order to achieve the desired functions of electronic cigarette 10 as described herein.

[0039] A variety of indicator lights forming one or more illuminative indicators may be provided in embodiments of the disclosure. One such indicator may be a battery end indicator 114 provided as a ring extending about at least a portion of shell 106 at or proximate to first end 102A. In one such embodiment, battery end indicator 114 may be provided at or proximate to first end 102A and includes one or more LED lights having one or more colors. Each color may, for instance, indicate a status of electronic cigarette 10. The status may be associated with the power remaining of battery 110, an activation state of electronic cigarette 10, the heating level of an inserted cartomizer 200, or any other status which may be desirable to communicate to a user of electronic cigarette 10 through a light color. For instance, when electronic cigarette 10 is activated such that a user is either actively inhaling cigarette 10, as described in accordance with disclosure, or cigarette 10 is in a state such that the user could inhale, indicator 114 may be red or reddish. In such an embodiment, battery end indicator 114 could extend about at least a portion of the first end 102A such that when indicator 114 emanates a red or reddish color a user may associate the red color at or proximate to first end 102A with the red glow of a lit cigarette. In another embodiment, an indicator ring may be provided to illuminate one or more colors associated with the charge or power state of battery 110. For instance, battery end indicator 114 may illuminate green or blue when the battery is operating with a sufficient charge, and yellow or red when the battery is operating with a low charge such that the user should consider charging battery 110, in accordance with the disclosure. A ring indicator 116 may be provided on or proximate to an activation button 118, which may function to activate cigarette 10 as described herein in accordance with the disclosure. While activation button 118 may be provided

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on the surface of outer shell 106, and ring indicator 116 may substantially circumference button 118. Ring indicator 116 may include one or more LED lights having one or more colors to indicate various statuses of electronic cigarette 10. Status changes of electronic cigarette 10, such as insertion of cartomizer 200, activation of electronic cigarette 10 by pressing button 118, or deactivation of electronic cigarette 10 by pressing button 118 an additional time may each result in a different associated and predetermined color. The activation of the appropriate LED light or lights may be controlled by PCB 112. In embodiments where button 118 is coplanar or aligned with the surface of outer shell 106, as described herein, ring indicator 116 may also be coplanar or aligned with button 118 and the surface of outer shell 106. Another indicator light may be provided at or proximate to cartomizer end 104A. In one embodiment, in order to transmit a lighting effect from the battery segment 102, where battery 110 and PCB 112 may be housed, to the cartomizer end 104A, one or more LED lights may be provided in the cartomizer receiving segment 104 at or proximate to the battery segment 102. One or more clear tubes or optic fibers may be also be provided within or just below the surface of outer shell 106, with the tubes or fibers terminating at or proximate to the cartomizer end 104A. The resulting effect is an attractive, illuminative effect where the LED lights provided in the cartomizer segment are projected into and transmitted along the fibers. PCB 112 could potentially alternate or change the LED light colors projected into the fibers. The color alternation could be periodic, creating a steady change of colors, or the color alteration could be responsive to a status change of the electronic cigarette 10.

[0040] In order to provide an electrical connection between PCB 112 and an inserted cartomizer 200, an electrical connector 120 may be provided and may include a plurality of pogo pins 120. Pogo pins are devices used to establish connections between two circuits, and each may take the form of a cylinder containing one or more spring-loaded pins 122, each retractable upon compression, for instance by cartomizer 200 when it is inserted in cartomizer chamber 108. In one such embodiment, three pogo pins 122 may be provided, one for establishing positive current connection, one for establishing a negative current connection, and one for establishing a ground current connection. Each pogo pin 122 may be connected to PCB 112, which may control current outputted to pogo pins 122. For instance, PCB 112 may operate to vary or intermittently activate current flow to connector 120, the variation thereby regulating the activation of a heating element in a connected cartomizer. When cartomizer 200 is not received in cartomizer chamber

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108, a head portion of each pogo pin may extend into cartomizer chamber 108. When cartomizer 200 is received in cartomizer chamber 108, the pins 122 are contacted and at least partially compressed into battery portion 102. Pins 122 may be contacted or pressed against electrical receivers provided on cartomizer 200 as described herein, thereby establishing an electrical connection between PCB 112 and cartomizer 200. Additional pins 122 are contemplated in embodiments of the disclosure, such as a fourth pin for providing an electrical connection to another element, such as the LED lights described above or a temperature sensor 260 described herein and illustrated in FIG. 2.

[0041] An additional embodiment of connector 120 may operate to identify information from an inserted cartomizer 200 based on voltage drop over one or more pins 122. For instance, connector 120 may include a controlling pin 122 from which connected PCB 112 may detect variations in voltage drop across the pin when connected to various types of cartomizers 200. Circuitry provided within a first type of cartomizer 200 may effectuate a first voltage drop over a controlling pin 122, while circuitry provided within a second type of cartomizer 200 may effectuate a second voltage drop over controlling pin 122 when cartomizer 200 is inserted in chamber 108. If PCB 112 detects a first voltage drop, the cartomizer 200 is identified as a first type of cartomizer, whereas if PCB 112 detects a second voltage drop, the cartomizer is identified as second type of cartomizer. A first cartomizer type may hold a first type of vaporizable substance 300, while a second cartomizer type may hold a second type of vaporizable substance 300. In one embodiment, connector 120 includes three pins 122: a positive pin, a ground pin, and a controlling pin. A controlling pin may also serve a dual function in that communication between a sensor 260 may also occur through a controlling pin 122. Other known or to be developed devices or connectors are contemplated within the disclosure for establishing an electrical current between PCB 112 and cartomizer 200.

[0042] Various features may be further provided in embodiments of electronic cigarette 10 in order to secure and align cartomizer 200 within cartomizer chamber 108. For instance, at least one magnet 124 may be provided in or proximate to chamber 108. A magnet 202 of opposing polarity to magnet 124 may be placed on a surface of cartomizer 200 so as to secure cartomizer 200 within chamber 108 when magnets 124, 202 (see FIGS. 1A, 1B) contact each other. It should be understand and appreciated that, in some embodiments, battery portion magnet(s) 124 may attach to cartomizer metallic surface(s) 202 and, conversely, cartomizer magnet(s) 202 may

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attach to battery portion metallic surface(s) 124, thereby establishing a magnetic connection between battery portion 100 and cartomizer 200. Other known or to be discovered means of securing cartomizer 200 in cartomizer chamber 108 are contemplated within the disclosure, including but not limited to, snap fit connectors, friction fit, threaded insertion of cartomizer 200 into chamber 108, a suction fit using pressurized means or any other suitable method of securing known or to be developed in the art.

[0043] One or more alignment features or mechanism may be included in order to ensure proper placement of cartomizer 200 in cartomizer chamber 108. In one embodiment, two magnets 124 may be provided proximate to connector 120 (see FIG. 1A), each magnet 124 having an opposed polarity. In this embodiment, two cartomizer magnets 202 (see FIG. 1B) may be provided of opposing polarity at an insertion end 210 of cartomizer 200. Because of the opposing polarities of magnets 124/202, the cartomizer 200 may only be inserted and secured in one direction or orientation, thereby facilitating alignment of cartomizer 200 within chamber 108. An alignment protrusion or peg 126 (see FIG. 1C) may be provided on a portion of an interior surface of chamber 108, and an alignment slit or slot 204 may be provided on a portion of cartomizer 200. Alignment protrusion 126 may be dimensioned to fit or slid along slit 204 so that cartomizer 200 may only be inserted in a particular, proper orientation. In another embodiment, a slit, crevice, or cutout may be provided on a portion of shell 106, with a matching protrusion provided on a portion cartomizer 200. For instance, a cutout may be provided on an upper rim of shell 106 at cartomizer receiving segment 104, while a matching protrusion may be provided on a portion of cartomizer 200 proximate to insertion end 210, with battery portion cutout engageable with the cartomizer protrusion when the cartomizer is properly aligned so as to ensure proper orientation of cartomizer 200 within chamber 108. Ensuring cartomizer 200 is properly oriented within chamber 108 in turn ensures proper contacting of cartomizer 200 with connector 120, and therefore proper functioning of electronic cigarette 10.

[0044] One or more windows 130 may be provided in outer shell 106 (see FIG. 1). Windows 130 may be made of a translucent material, such as glass or substantially clear plastic, in order to view internal components of battery portion 100. Window 130 may also be a slit cut into shell 106. For instance, in one embodiment, window 130 may be provided on or proximate to cartomizer receiving segment 104 and, more particularly, cartomizer chamber 108 so as to

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permit a user of electronic cigarette 10 to view the cartomizer 200 when it is inserted into cartomizer chamber 108.

[0045] One embodiment of cartomizer 200 for holding vaporizable material 300 is cartomizer 200A for holding a vaporizable fluid 300A, an embodiment of which is illustrated in FIG. 1. Vaporizable fluid 300A may be, for example, any known or to be developed fluid useful to vaporize, for inhalation nicotine, flavor or other desired ingredients in an electronic cigarette, such fluids include propylene glycol (PG), vegetable glycerin (VG), or polyethylene glycol 400 (PEG400), as well as their mixtures to which a flavor and/or nicotine has been added. Cartomizer 200A may be substantially elongate and insertable into chamber 108. Chamber 108 is defined by outer shell 106 and electrical connector 120. An insertion end 210 of cartomizer 200A, defined opposite of a mouthpiece end 212, may be inserted into the chamber first and may ultimately contact or be positioned proximate to connector 120 of battery portion 100. Cartomizer 200A may include a body 208 for holding fluid 300A. At least a portion of body 208 may be composed of translucent or substantially translucent material, such as glass or plastic, so that a user may see fluid 300A held within. The portion of body 208 composed of translucent material may be alignable with window 130 and may be proximate to LED lights or fiber optics so as to illuminate cartomizer 200A as it is inserted into chamber 108. The illumination may occur automatically upon insertion, or may be programmed to illuminate upon activation or manipulation of a switch, such as button 118.

[0046] In order to vaporize fluid 300A, a heating element 214 and a wicking element 216 may be provided within cartomizer body 208. An electrical current may be transmitted to heating element 214 through circuitry in electrical communication with electrical contacts, which contact pins 122 (see FIG. 1A) when cartomizer 200A is inserted into chamber 108. Once fluid 300A is heated to an optimal vaporizing temperature, the user may inhale the vaporized fluid 300A through a mouthpiece 220 provided on body 208 at or proximate to mouthpiece end 212. The vaporized fluid may travel through an inhalation tube 222 in fluid connection with heating element 214 and wick 216. Inhalation tube 222 may also be in fluid communication with one or more holes or ducts provided, for instance, in sides of outer shell 106 in order to permit air flow through cartomizer body 208. The electrical current transmitted to heating element 214 may be controlled by PCB 112 through connector 120 when cartomizer 200A is inserted into chamber 108. The electronic cigarette 10 may be manually controlled, as a user may press button 118 to

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initiate a charge to heating element 214, which in turn may heat fluid 300A to a vaporized temperature which a user may inhale through mouthpiece 220. An automatically heating version of electronic cigarette 10 is also contemplated with disclosure, where a pressure switch integrated with connector 120 may activate current flow from PCB to heating element 214 rather than by manual activation from switch 118.

[0047] So that a user may refill fluid 300A held in body 208, mouthpiece 220 may be removable from body 208. Mouthpiece 220 may include a screw thread 224 so that mouthpiece 220 may be threadably engaged with mouthpiece end 212 of body 208 or, alternatively, may be press fit onto or into mouthpiece end 212 of body 208. A bushing 226, which may be a ring formed from plastic, rubber, or any other suitable material, may be provided to help stabilize and retain cartomizer 200 tightly fit in chamber 108. Additionally, a colored ring or logo 228 may be provided about a portion of cartomizer body 208 in order to identify the type or cartomizer being used.

[0048] With reference now to FIGS. 2, 2A and 2B, an additional embodiment of cartomizer 200B is provided for holding a dry vaporizable material 300B, such as dry tobacco. A container 240 may be provided within cartomizer body 208. Container 240 may be made from a material having a high thermal conductivity, such as metal, in order to transmit heat from a heating element 214A provided about at least a portion of container 240. In that at least a portion of heating element 214A may be provided about at least a portion of container 240, the material 300B provided within container 240 may be heated from multiple sides, similar to an oven, as opposed to from a single concentrated heat source. As an electrical current is transmitted to heating element 214A, the interior of container 240 may be heated to a desired vaporizing temperature. Heating element 214A may be substantially comprised of a non-conductive material, such as a polyimide flex harness material, with a conductive material, such a copper or other metal wiring shaped into a wire or flat ribbon, dispersed throughout the non-conductive material. The conductive material may be intertwined or wound throughout the non-conductive material in order to increase the heated surface area as well as to increase the impedance of the conductive material, which may then be electrically connected to PCB 112 through connector 120 when cartomizer 200B (See Fig. 2) is inserted in cartomizer chamber 108 (See Fig. 1). The impedance value of the conductive material may be 2-3 ohms in some embodiments, and in one embodiment a maximum of 1 ohm. In some embodiments, heating element 214A may be

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provided around the majority of cartomizer body 208, and in some embodiments heating element 214A may be provided proximate to only a portion of cartomizer body 208. For instance, heating element 214A may be provided only proximate to insertion end 210, in order to provide a greater portion of heating through convection rather than through conduction. In some embodiment, heating element 214A may be provided about all or the majority of body 208, and PCB 112 may be operable in order to vary the amount of heating provided through convection rather than conduction. For instance, only the portion of heating element 214A proximate to insertion end 210 may be activated in order to heat vaporizable substance 300B through convection, or all or nearly all portions of heating element 214A may be activated in order to increase the conduction heating of substance 300B. PCB 112 may operate to switch between a conduction heating and a convection heating.

[0049] An insulating material 242 may be further provided within body 208 in order to control or regulate the heat distribution. Insulating material 242 may be provided around at least a portion of the exterior of heating element 214A in order to insulate body 208 from excess heat temperature, which may transmit to outer shell 106 (See FIG. 1). Insulating material 242 may also be provided between heating element 214A and container 240 so as to regulate or control heat transmitted to container 240.

[0050] One or more screens 250 may be provided within body 208 in order to contain dry material 300B within container 240, as well as to filter circulated air. Air may be circulated by providing one or more holes 252 in the cartomizer body 208. In one embodiment, holes 252 form a "t" shape (See FIG. 2B) from which the center of the "t" is substantially aligned with a hole leading to container 240. Holes 252 may be capable of alignment with one or more holes on the outer shell 106 of battery portion 100 so that air from the environment may pass through holes 252 and into container 240 where material 300B is provided. Holes 252 may be provided proximate to the inserted end 210. Screens 250 may be provided either at or proximate to inserted end 210, mouthpiece end 212, or both. In some embodiments, container 240 is removable from the rest of cartomizer body 208. Mouthpiece 220 may be removable or detachable, for instance through a screw thread, so as to permit access to container 240. An upper screen 250 may be attached or manufactured integrally with mouthpiece 220 so as to be removed with mouthpiece 220.

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[0051] A sensor 260 may be included in some embodiments of cartomizer 200. Sensor 260 may operate to sense vaporizing temperature, and may be electronically communicative with PCB 112 so as to provide sensory information to PCB 112, which may be consequently transmitted to one of the LED indicators provided in electronic cigarette 10 as described in accordance with the disclosure. For instance, indicator 118 (See FIG. 1) may illuminate a certain color when sensor 260 has detected that vaporization temperature in container 240 has been reached and the user may proceed to inhale vaporized material 300. PCB 112 may also including safety protocols for automatic shutoff in the event that sensor 260 records a temperature above a preset vaporization temperature range, which may indicate material 300 (including, for example, 300A, 300B, 300C) is actively burning or about to burn. Thus, sensor 260 may operate as a thermistor. A vaporization range for many materials 300 may be between about 190 degrees Celsius and about 240 degrees Celsius, and in some embodiments the vaporization temperature may be at about 230 degrees Celsius. In this vaporization temperature range, active ingredients of the vaporization material 300 may begin to vaporize without actively burning, which may occur at about 400 degrees Celsius or higher for some materials. PCB 112 may operate to control the vaporization temperature, for instance regulating a maximum vaporization temperature or controlling the vaporization actual temperature. In one embodiment, PCB 112 may control or regulate vaporization temperature within 10 degree Celsius, and in another embodiment PCB 112 may more finely control or regulate vaporization temperature within 1 degree Celsius, based on a selected or desired vaporization temperature as inputted by a user of electronic cigarette 10. It should be understood and appreciated that communication between sensor 260 and PCB 112 may be bidirectional so that sensor 260 may operate to control at least portions of vaporizer functions or to transmit information to PCB 112 and additionally receive information from PCB 112, which operates to control electronic cigarette 10.

[0052] As shown in Figure 3, a charger 400 may be inserted into chamber 108 (FIG. 1) in order to charge battery 110 (FIG.1) in embodiments where battery 110 may be rechargeable. Through its insertion into chamber 108 and contact with connector 120, charger 400 may provide an electrical charge to battery 110. Charger 400 may include a plug 410 for connecting charger 400 to a power source, which in one embodiment is a wall socket. Other plugs 410 for different power sources are contemplated within the disclosure, including USB connections and other known or to be developed power sources. An indicator light 420, which may be an LED light,

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may be provided on charger 400 in order to indicate a charging status, for instance when charger 400 is connected with a power source. PCB 112 may operate to change other indicators, for instance LED indicators 114/116, to indicate the charging status of electronic cigarette 10. In accordance with the disclosure, and illustrated for instance in Figure 9, charger 400 may be connectable to battery portion at or proximate to first end 102A. Furthermore, as also illustrated for instance in Figure 9, charger magnets 404 are contemplated within the disclosure in order to securely couple charger 400 to battery portion 100. In one embodiment, a metallic surface 404 is provided and positioned so as to be adjacent to magnets 124 or magnets 162 (depending on the embodiment of the disclosure). In another embodiment, a metallic surface 124 or 162 in order to magnetically couple battery portion 100 with charger magnets 404. Additionally, charger magnets 404 may be provided having opposing polarities as battery portion magnets 124 or 162.

[0053] Figures 4-7 further illustrate the embodiments of electronic cigarette 10 provided in Figures 1-3, in accordance with the disclosure.

[0054] Figures 8 and 9 illustrate an additional embodiment of an electronic cigarette 10 having a battery portion 100A for receiving a cartomizer such as cartomizer 200 or cartomizer 200B. PCB 112 may operate to perform a variety of functions including, such vaporization temperature control or regulation, voltage boost, accelerometer, or various drivers for controlling LED functioning. One or more LED indicators 114 may be provided and, in one embodiment, a set of three LED lights of variable colors are provided proximate to battery end 102A of the battery portion 100A. Magnets 124/202 may be provided in order to retain cartomizer 200 within cartomizer chamber 108. A switch 118A may be provided in order to manually activate or otherwise control electronic cigarette 10.

[0055] A battery charger 400A, having charging contacts 402, may be attached or connected to charging contacts 160 provided on outer shell 106, or otherwise exposable to the environment. In one embodiment, charging contacts 160 are positioned at or proximate to battery end 102A. Charging contacts 160, 402 may include a first positive contact and a second negative contact. In order to secure charging contacts 160 against corresponding charging contacts 402 of charger 400A, one or more magnets 162 may be provided proximate to charging contacts 160. Magnets 162 may then be capable of engaging with charger magnets 404 provided on portion of charger 400A such that magnets 162, 404 are adjacent to each other when contacts 160, 402 are

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contacting one another. In order to ensure the proper alignment of contacts 160, 402, two magnets 162 may be provided with opposed polarities, and two charger magnets 404 may be provided with opposed polarities. These opposed polarities may ensure proper orientation of charger 400A when it is connected to battery portion 100A. In some embodiments, battery portion magnet(s) 162 may operate to magnetically attract and connect a metallic charger surface 404, or charger magnets 404 may operate to magnetically attract and connect a metallic battery surface 162, each of these embodiments thereby operating to magnetically couple charger 400 with battery portion 100. An indicator light 420, which may be an LED, may be provided to indicate a charging status of battery 110. A charging extension 410 may be provided so as to connect charger 400A to a power source or, alternatively, a power source may be internally provided within charger 400A. Charging extension 410 may be an AC wall adapter to USB and USB cord to magnetic plug. Any charger 400 of the disclosure may contain OverVoltage and OverCurrent protection in order to prevent over charging of battery 110 thereby assuring long battery life and in order to reduce the likelihood of battery 110 overheating. In one embodiment, charger 400 is rated at approximately 1000mA current, which for some embodiments will equate to approximately two hours of battery life. The battery life will vary depending on battery selection and number of batteries 110 used in a given embodiment.

[0056] Referring now to FIG. 10, an embodiment for a cartomizer 200C is provided for holding a vaporizable substance 300. Cartomizer 200C may be used as an alternative cartomizer to 200/200B cartomizers, for example. Vaporizable substance 300 in cartomizer 200C may be a wax, oil or gel 300C. In cartomizer 200C, heating element 214 may be provided at the base of a basin 214B, which may or may not be removable from cartomizer body 208. Basin 214B may be dimensioned to hold wax, oil or gel 300C while heating element 214 may elevate the temperature within basin 214B to a vaporization temperature range, as controlled by PCB 112. Once the wax, oil or gel 300C is vaporized, a user may inhale the vapor through an inhalation tube 222 and out through mouthpiece 220. In some embodiments, mouthpiece 220 is removable through a friction fit, threaded connection, or any other known or to be developed connection means. One or more O-ring seals may also be provided proximate to the mouthpiece to ensure a fluid tight connection between mouthpiece 220 and cartomizer body 208.

[0057] FIG. 11 shows an additional embodiment of a cartomizer 200D for holding a dry vaporizable substance 300B. Cartomizer 200D may be used as an alternative cartomizer to

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200/200B cartomizers, for example. Dry substance 300B may be held in a removable liner or container 240. Cartomizer 200D may also include heating element 214A and insulation material 242, each of which may be similarly provided and oriented as previously described with respect to cartomizer 200B. An air flow hole or aperture 270 may be provided at the base of cartomizer 200D. This airflow hole 270 may be provided off plane or misaligned with respect to electrical contacts 218. Airflow hole 270 may align with a hole between chamber 108 and battery portion 100A, which may house a fan 190 as described below. A temperature sensor 260 may also be included.

[0058] FIG. 12 further illustrates the embodiments of an electronic cigarette 10 provided in FIGS. 9-11 in accordance with the disclosure.

[0059] Referring now to FIG. 13, an embodiment of an electronic cigarette 10 including a battery portion 100B is provided. PCB 112 may include a microcontroller, voltage boost integrated circuit, accelerometer, and a Fan control circuitry. A fan 190, including blades and a motor, may be provided internally in battery segment 110 of battery portion 100B. Fan 190 may operate to facilitate air flow from external battery portion 100B, such as through one or more holes 152 provided in outer shell 106, through battery segment 110 and into cartomizer thereby establishing an air flow for inhalation in accordance with the disclosure. In some embodiments, fan 190 has a reversible operation in order to "clear" the air flow path in the event debris or excess vapor is caught in the air flow path. PCB 112 may also include one or more switches that, for instance, may be provided beneath control buttons, such as that exemplified in Fig. 15). PCB 112 may also include one or more LED's for these and other similar switch lights. PCB 112 may also operate to display a status message on an LED screen, which may be provided on outer shell 106 (e.g., as shown in Fig. 15). A status message may, for example, include messages to indicate a status of the electronic cigarette 10, such as when the cigarette 10 is activated, charging, or has reached a vaporization temperature. An LED screen may also display warning or error messages, for instance a danger message when a critical temperature has been detected by a sensor. Further, as illustrated in FIG. 14. In some embodiments, PCB 112 may operate to recognize the cartomizer 200/200A/200B/200C inserted into chamber 108, and in order to identify the vaporizable substance 300 included in cartomizer 200. For instance, PCB 112 may communicate with sensor 260 in cartomizer 200 in order to identify both the type and amount of vaporizable substance 300 within cartomizer 200. This identification may be included in the status message

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displayable on the LED screen on outer shell 106. Charger 400A may be utilized for charging battery 110 in battery portion 100C. It should be understood and appreciated that, in some embodiments, charger 400A may be inserted into chamber 108 of battery portions 100A/100B in addition to connection of charger 400A as described herein. It should be further understood and appreciated that in embodiments where charger 400/400A is coupled with battery portion 100 at a position other than where cartomizer 200 is connected, such as embodiments where charger 400A is coupled at or proximate to first end 102A, electronic cigarette 10 may operate with a pass through function, namely the ability to operate electronic cigarette 10 while the unit is charging from charger 400A.

[0060] FIG. 15 further illustrates the embodiments of an electronic cigarette 10 provided in FIGS. 13-14 in accordance with the disclosure.

[0061] Certain charger embodiments for rechargeable vaporizers or electronic cigarettes disclosed hereinabove, for example in Figure 3, employ electrical contacts between the charger and the cartomizer portion's electrical connector. Under these circumstances, the cartomizer portion is first removed from the chamber to expose the electrical connector and thereafter a charger with compatible electrical contacts is inserted into the chamber. The invention contemplates other types and locations of connectors on the vaporizer and charger. Accordingly, in certain embodiments, the present invention provides a charger 400 for charging a vaporizer or electronic cigarette having charging contacts attached essentially transversely to its outer shell at an end distal to the cartomizer receiving portion and proximate to its battery portion. One such embodiment is shown in Fig. 14. In some of these embodiments where the cartomizer portion is not removed from the vaporizer to expose the electrical connector, the charging contacts are incorporated into the device such that the vaporizer or electronic cigarette may be operated in its typical fashion during the recharging of the battery ("pass-through" charging).

[0062] Still other embodiments for chargers and rechargeable vaporizers or electronic cigarettes are illustrated in Figs. 16, 17, 18, 19, and 20. For example, Fig. 16 depicts aspects of the portion of the charger that connects with the vaporizer during the charging operation. In this example, the positive connection to the vaporizer's charging contacts is facilitated through the use of a spring-loaded pogo pin (see 501 and 502). The negative connection pin (503) or other negative connection is isolated from the pogo pin by an insulator 506 to isolate the positive and

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negative connections from each other. At the contacts insulator surface such that it is isolated from electrical connections 501 and 503 is a wiper contact that is capable of powering a LED charging indicator light. In some instances the exterior housing 504 for the charger is at least in part, translucent or transparent, so that the indicator lamp can be readily observed. To maintain readily removable connectivity with the vaporizer, a magnet 505 is provided, and is typically in proximity to the outer edges of the charger's charging contacts and optionally takes the form of a ring disposed in substantially concentric fashion about the assembly containing the electrical contacts and insulation. The charger is generally held in the correct position for charging by magnetic attraction to the vaporizer's charging contacts. The magnetic attraction strength is such that the charger can be easily detached by just pulling on the charger. This level of attractive force may also allow the charger to break away if it is pulled too far away from the battery portion of the vaporizer so that no significant damage will occur to the vaporizer or the charger. Other aspects of the charger include one or more of support pieces and/or fixing screws, for example. The materials employed in the construction of the charger would be readily understood by the ordinarily skilled artisan once equipped with the teachings of the present invention. Any material that conducts electricity will generally be acceptable where transfer of electricity to charge the battery is required. Similarly, where insulation is a necessary property for normal operation, electrically non-conductive materials are typically acceptable. Fig. 17 illustrating a perspective drawing of a charger that employs a USB terminus connection 507 as a source of power for the charging operation. At the end distal to the USB terminus are the charger's charging contacts for the vaporizer or electronic cigarette, including a pogo pin-type positive connection 501, an insulator 506, a negative connection 503, a magnet 505 and a housing 504.

[0063] Fig. 18 shows an alternate end on view of a charger's electrical contacts region, depicting a housing 504, magnet 505, negative connection 503, wiper contact 508 for an optional LED-type charging indicator light disposed on the housing , pogo pin-type positive connection 501, and insulator 506.

[0064] Fig. 19 illustrates a partial longitudinal cross section view of an embodiment of the vaporizer's electrical connector attached essentially transversely to its outer shell 512 at an end distal to the cartomizer receiving portion and proximate to its battery portion, which may be contacted with the chargers contacts illustrated in Fig. 18. Fig. 19 shows an arrangement of

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components for an embodiment of present invention's electrical connector including a positive contact 509, negative contact 510, and insulation 511.

[0065] An alternative vaporizer electrical connector compatible with the charger shown in Fig. 18 is shown in Fig. 20 in an end on view. In this view, the positive contact 509 forms an innermost circle, surrounded by concentric circles of independently varying dimensions including an insulator 511, a negative contact 510, a magnet 513 and outer shell 512. In certain embodiments 513 may be a magnet or a magnetic material. In embodiments where 513 is a magnetic material, it is preferably magnetic metal, more preferably a ferromagnetic metal. The magnetic attraction between 513 and the magnet in the charger contacts is strong enough to hold the charger contacts and vaporizer charging contacts sufficiently so that the battery may be recharged. In certain preferred embodiments, the attraction is sufficiently strong to maintain the charger/vaporizer connection, but weak enough to be disconnected without substantial damage to the charger or the vaporizer.

[0066] Fig. 21 shows a perspective side on view of the Fig. 18 charger's electrical contacts region depicting a housing (504), magnet (505), negative connection (503), wiper contact (508), pogo pin-type positive connection (501), and insulator (506).

[0067] Figure 22 shows the charger of Fig. 18 connected for recharging to the electrical connector of the vaporizer compatible with the charger shown in Fig. 20.

[0068] Vaporizer or electronic cigarette charger kits useful in, for example, the recharging of batteries used to power the vaporization process in such devices, are also within the ambit of the present invention. These kits typically include one or more chargers of the present invention, or alternatively a charger with multiple interchangeable power connectors (e.g., wall plug and USB connector). Such kits may further include, if desired, one or more of various compatible vaporizers or electronic cigarettes, their components, such as for example, one or more interchangeable cartomizers, cartomizer refills, etc., as will be readily apparent to those skilled in the art. Instructions, either as inserts or as labels, indicating quantities of the components contained in the kit, guidelines for operation or use, and/or guidelines for connecting any of the components and/or refilling the cartomizers, may also be included in the kit.

[0069] In accordance with certain embodiments of the present invention, there are provided methods which comprise contacting a charger of the present invention with a compatible

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vaporizer or electronic cigarette for a time and under conditions effective to recharge a rechargeable battery contained within said vaporizer or electronic cigarette sufficient to repower vaporizer or electronic cigarette for its continued use.

[0070] As will be understood by the ordinarily skilled artisan equipped with the disclosure herein, electrical contacts compatible with the charger must be provided for on or within the vaporizer or electronic cigarette.

[0071] The descriptions set forth above are meant to be illustrative and not limiting, and persons of skill in the art will recognize that various common and known deviations from the above described structures are considered to be within the scope of the disclosed concepts described herein.

[0072] The invention illustratively disclosed herein suitably may be practiced in the absence of any element which is not specifically disclosed herein. The invention illustratively disclosed herein suitably may also be practiced in the absence of any element which is not specifically disclosed herein and that does not materially affect the basic and novel characteristics of the claimed invention.

LIST OF REFERENCES

10	Electronic Cigarette
100	Battery Portion
100A	Battery Portion
100B	Battery Portion
102	Battery Housing Segment
102A	First end of Battery Portion
104	Cartomizer Receiving Segment
104A	Second end of Battery Portion
106	Shell
108	Cartomizer Chamber

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110	Battery
112	PCB
112A	PCB
114	Indicator
116	Ring Indicator
118	Button
118A	Switch
120	Electrical Connector
122	Pin
124	Magnet
126	Protrusion
130	Window
152	Hole
160	Charging Contact
162	Magnet
190	Fan
200	Cartomizer
200A	Cartomizer
200B	Cartomizer
200C	Cartomizer
202	Magnet
204	Groove
208	Body
210	Insertion End

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212	Mouthpiece End
214	Heating Element
214A	Heating Element
214B	Basin
216	Wick
218	Electrical Contact
220	Mouthpiece
222	Inhalation Tube
224	Threading
226	Bushing
228	Colored Ring
240	Container
242	Insulating Material
250	Screen
252	Hole
260	Sensor
300	Vaporizable Substance
300A	Vaporizable Fluid
300B	Vaporizable Dry Substance
300C	Vaporizable Wax
400	Charger
400A	Charger
402	Electrical Contact
404	Magnet

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410	Plug
420	Light
501	pogo pin
502	spring
503	negative connection pin
504	exterior housing
505	magnet
506	insulator
507	USB terminus connection
508	wiper contact
509	positive contact
510	negative contact
511	insulation
512	outer shell
513	magnet or magnetic metal

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Docket No.: 55755-402C07US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Jan Andries Verleur et al.

Application No.: Unknown | Confirmation No.: Unknown

Filed: Herewith | Art Unit: Unknown

For: VAPORIZER | Examiner: Unknown

PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115

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

Dear Commissioner:

INTRODUCTORY COMMENTS

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Remarks/Arguments begin on page 3 of this paper.

PTO/AIA/01 (06-12)
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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	VAPORIZER

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

■ United States application or PCT international application number 14/196,729 filed on March 4, 2014.

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: Jan Andries Verleur Date (Optional) :

Signature:

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/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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Title of Invention	VAPORIZER

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/196,729

filed on March 4, 2014.

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.

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LEGAL NAME OF INVENTOR

Inventor: Dan Recio Date (Optional) :

Signature:

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

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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	VAPORIZER

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

■ United States application or PCT international application number 14/196,729 filed on March 4, 2014.

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.

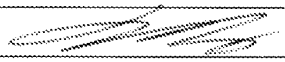
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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LEGAL NAME OF INVENTOR

Inventor: Yifeng Lu Date (Optional): 3/20/2014

Signature: 

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

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LEGAL NAME OF INVENTOR

Inventor: Yinjun Zhang Date (Optional) :

Signature:

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LEGAL NAME OF INVENTOR

Inventor: Arturo Fajardo Date (Optional) :

Signature:

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LEGAL NAME OF INVENTOR

Inventor: Hans Verleur Date (Optional): 3/7/14

Signature: Hans W Verleur

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Fig. 1

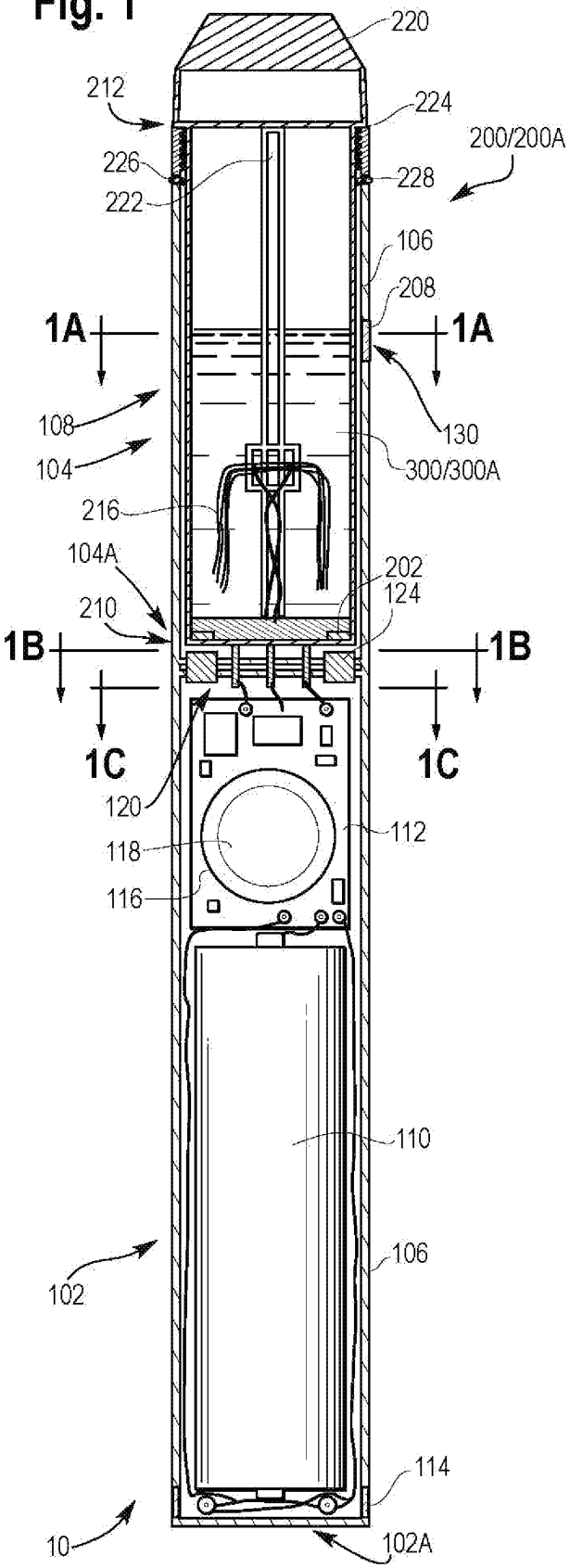


Fig. 1A

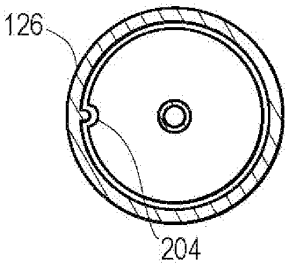


Fig. 1B

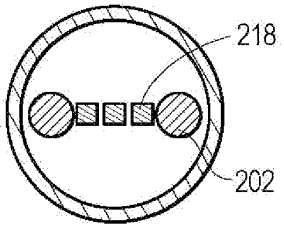


Fig. 1C

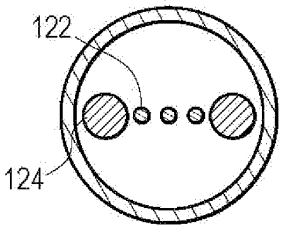


Fig. 2

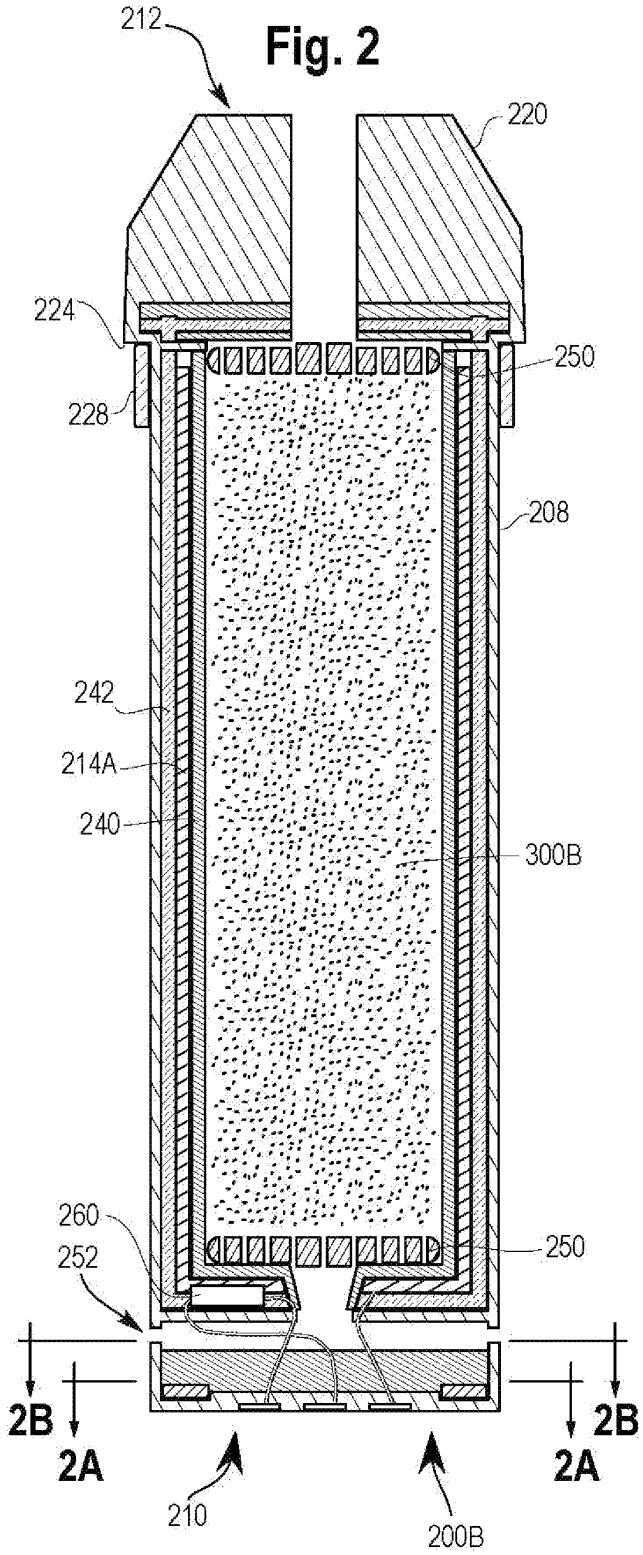


Fig. 2A

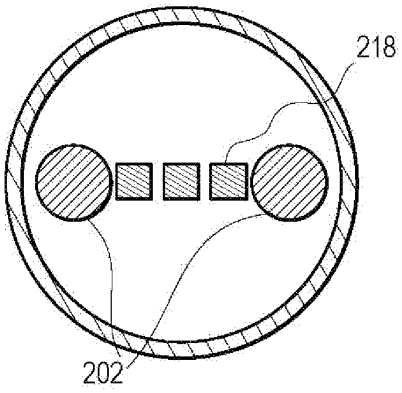


Fig. 2B

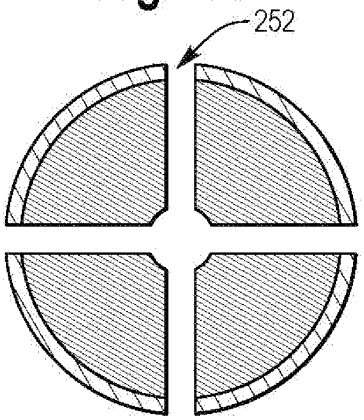


Fig. 3

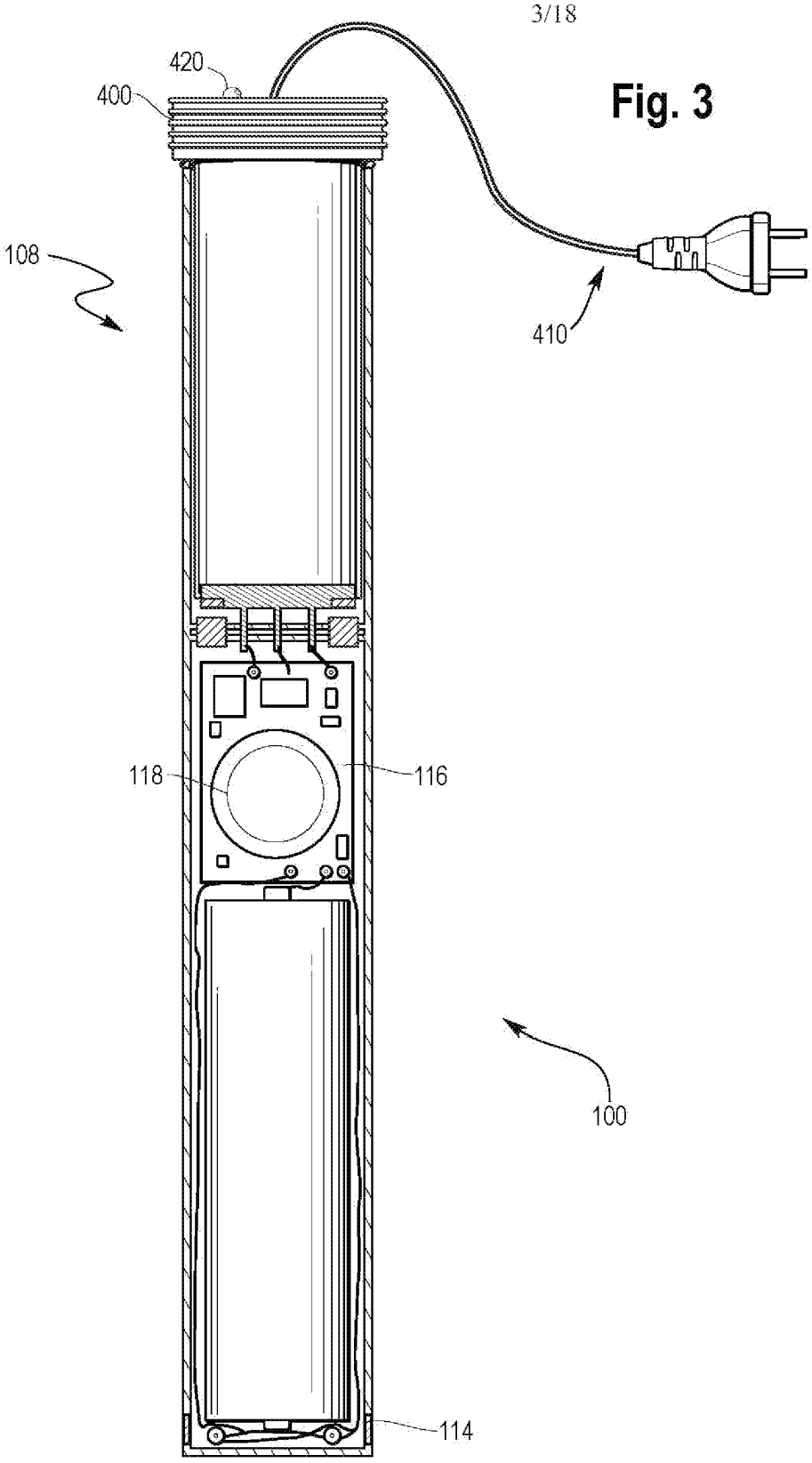


Fig. 4

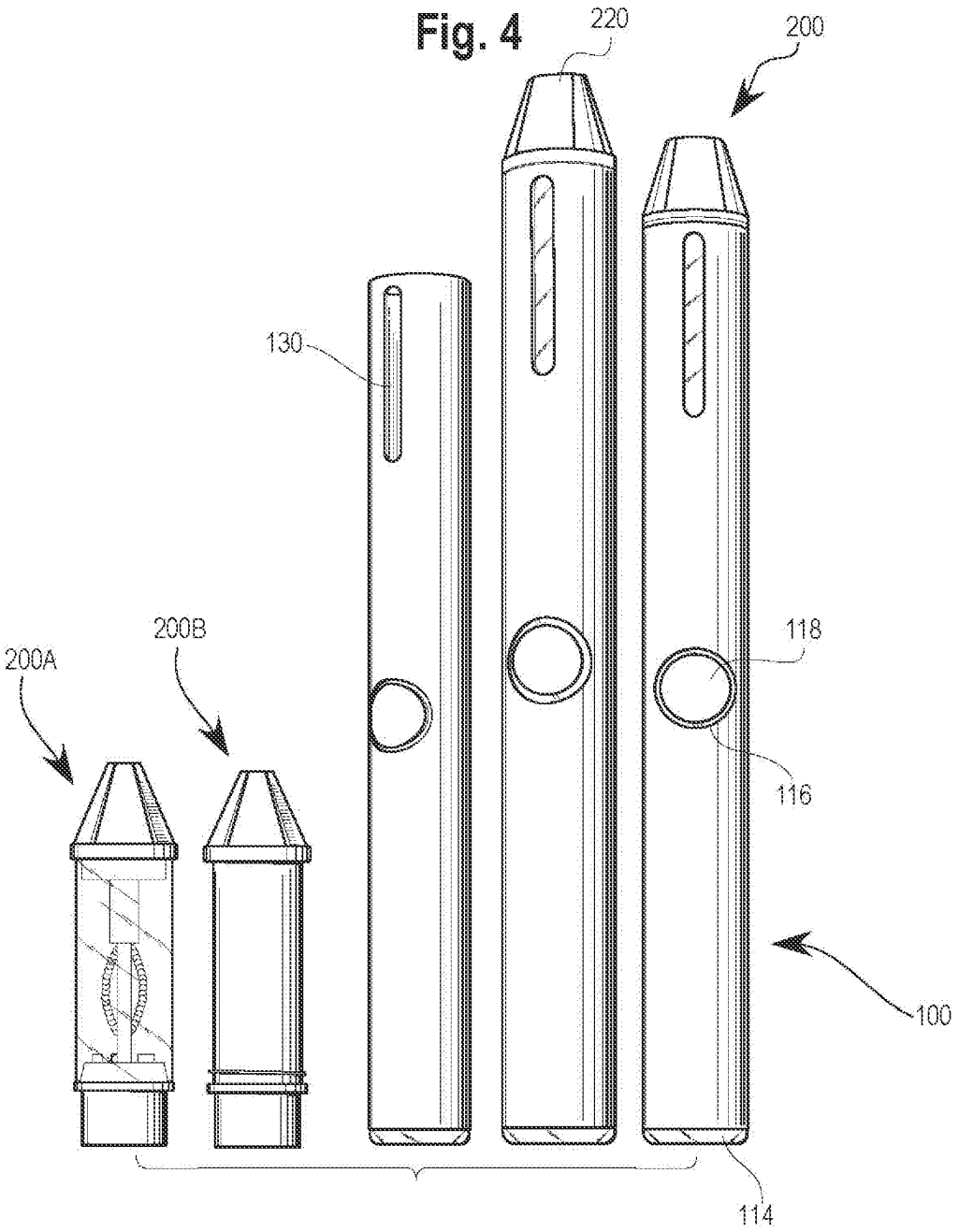
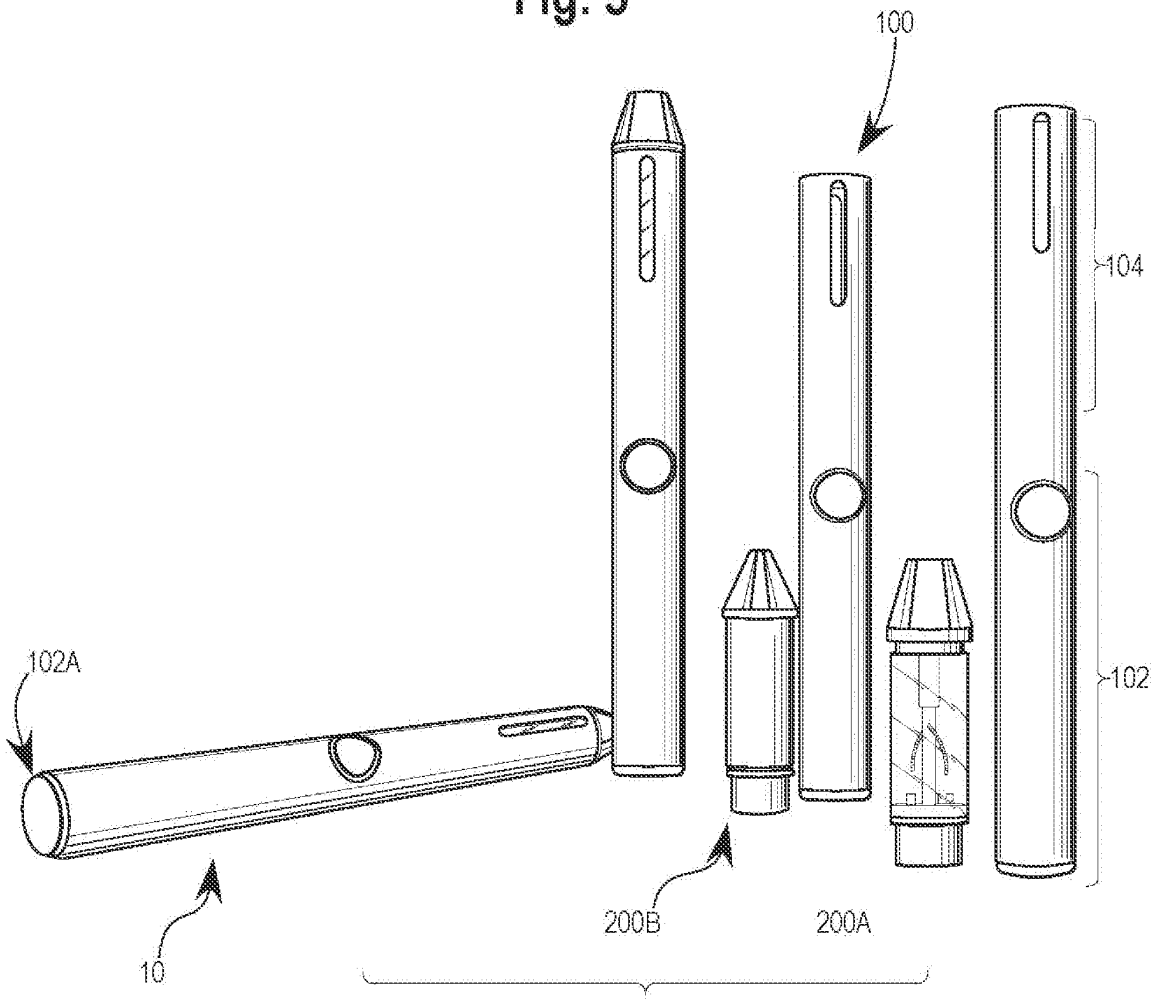


Fig. 5



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Fig. 6

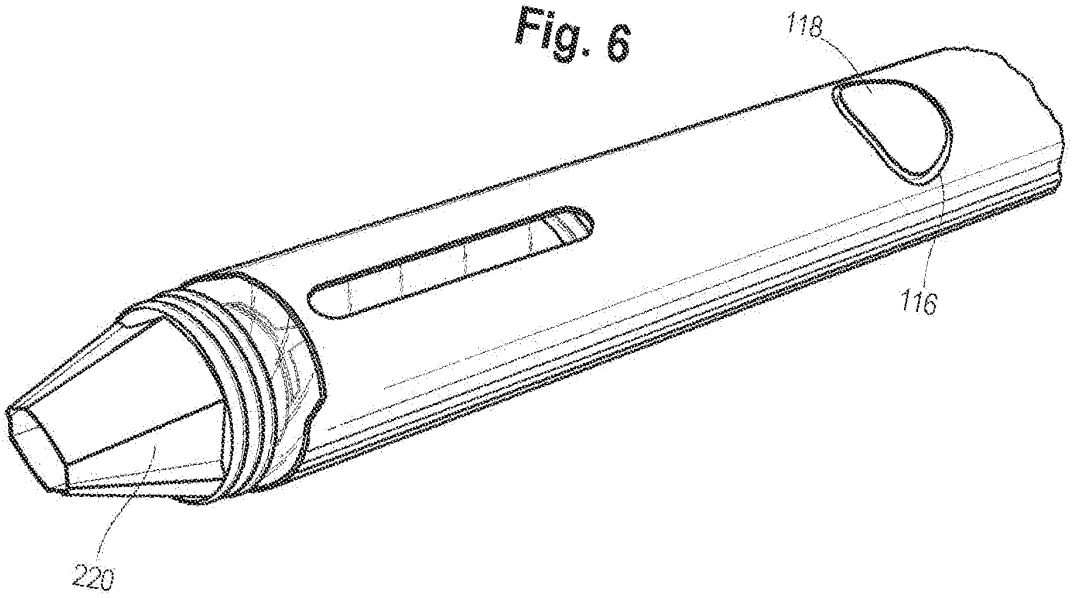


Fig. 7

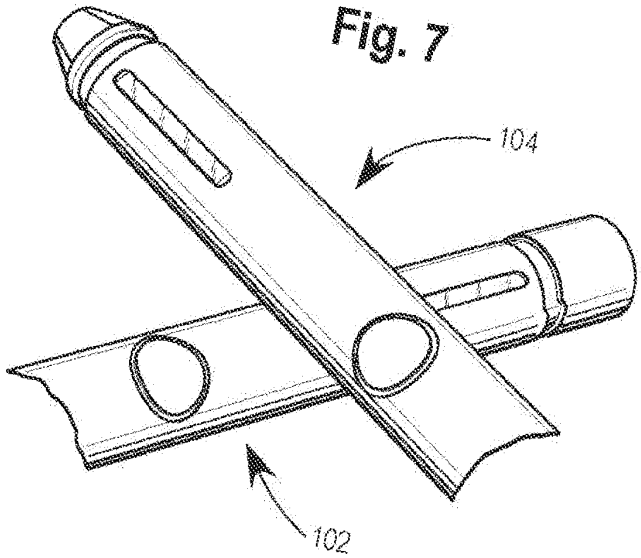


Fig. 8

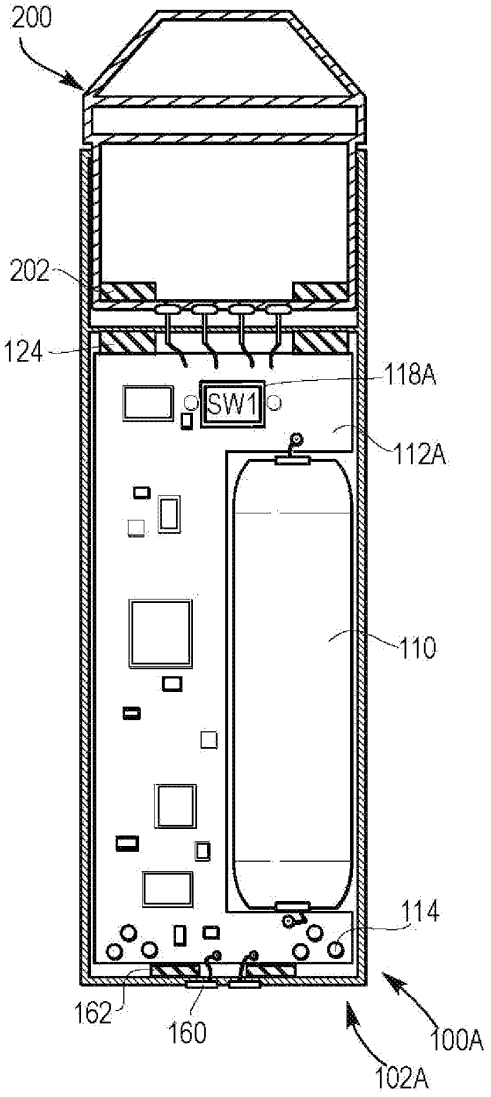
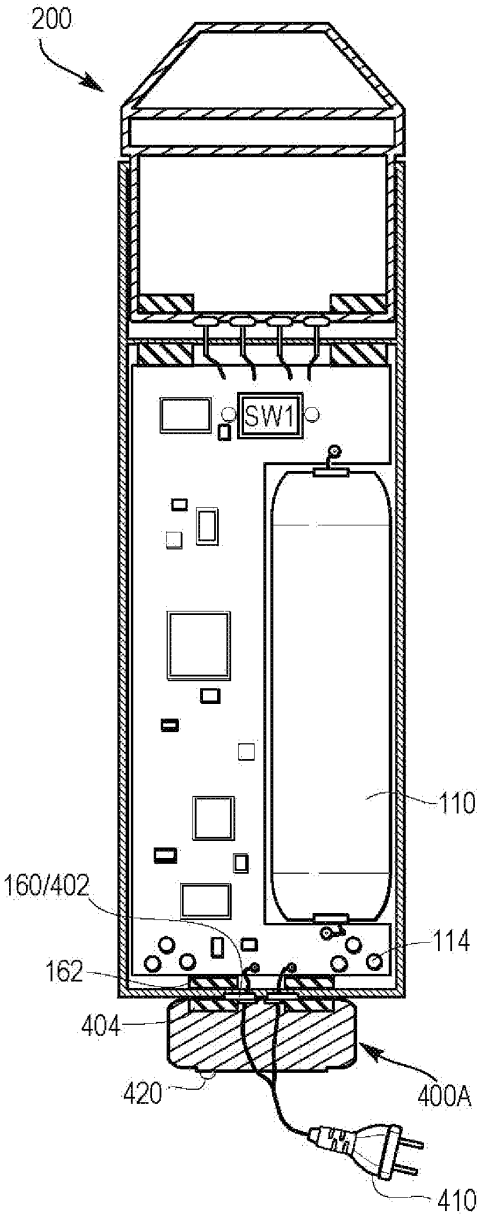


Fig. 9



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Fig. 10

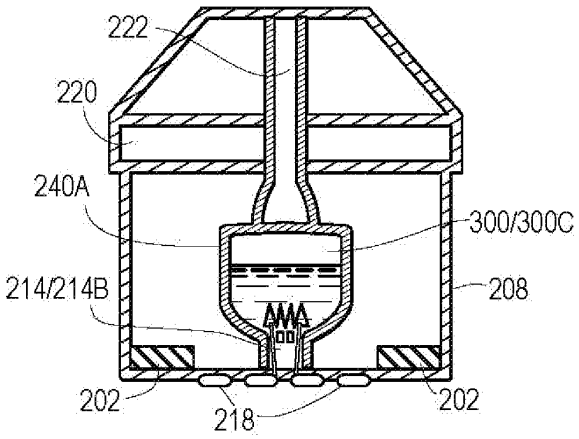
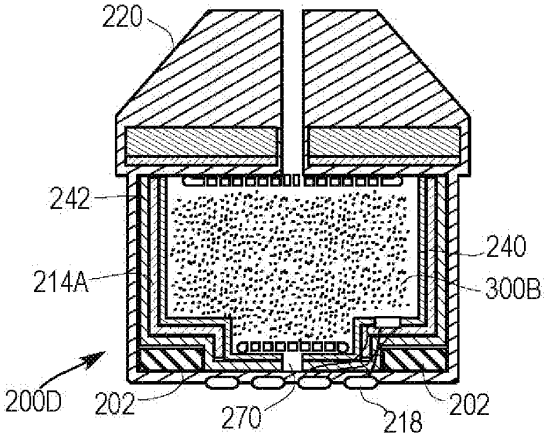


Fig. 11



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Fig. 12

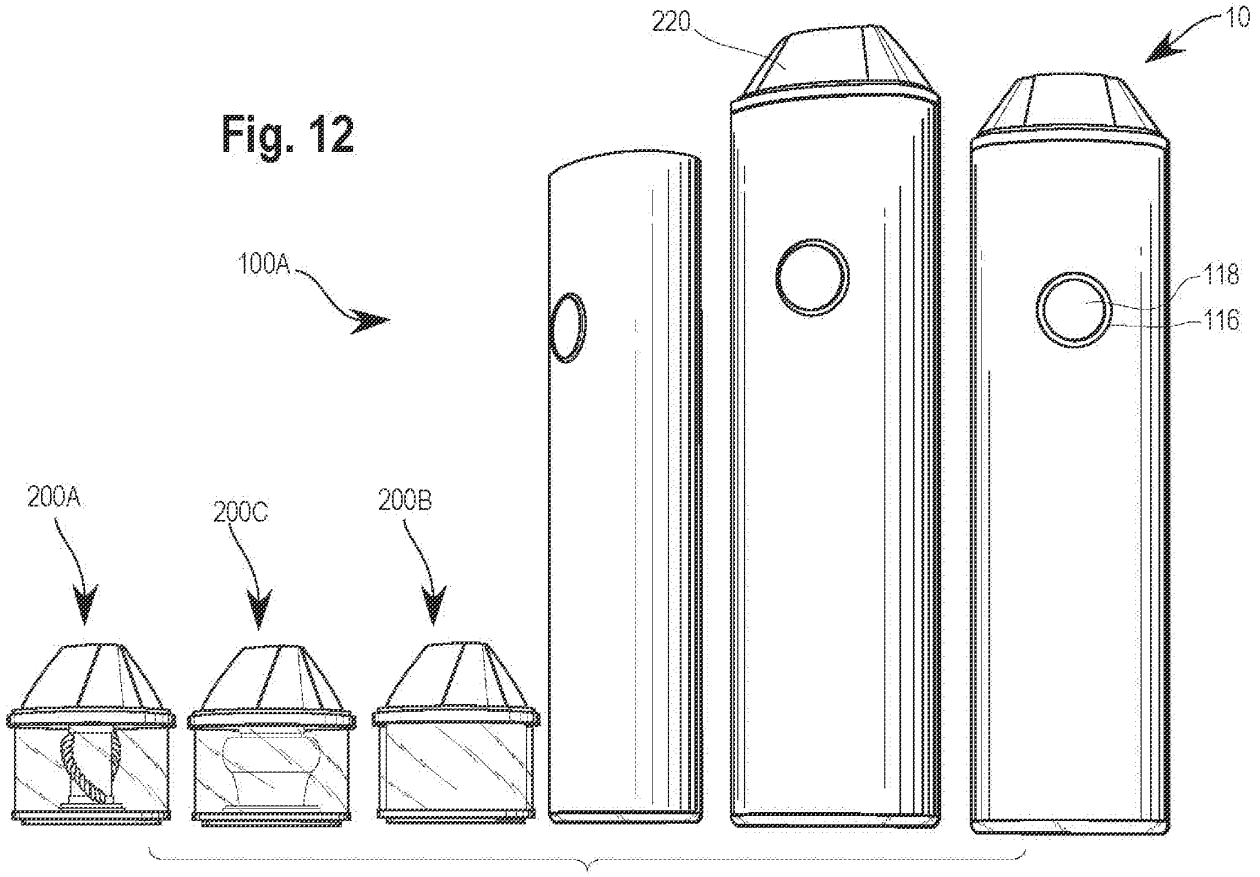


Fig. 13

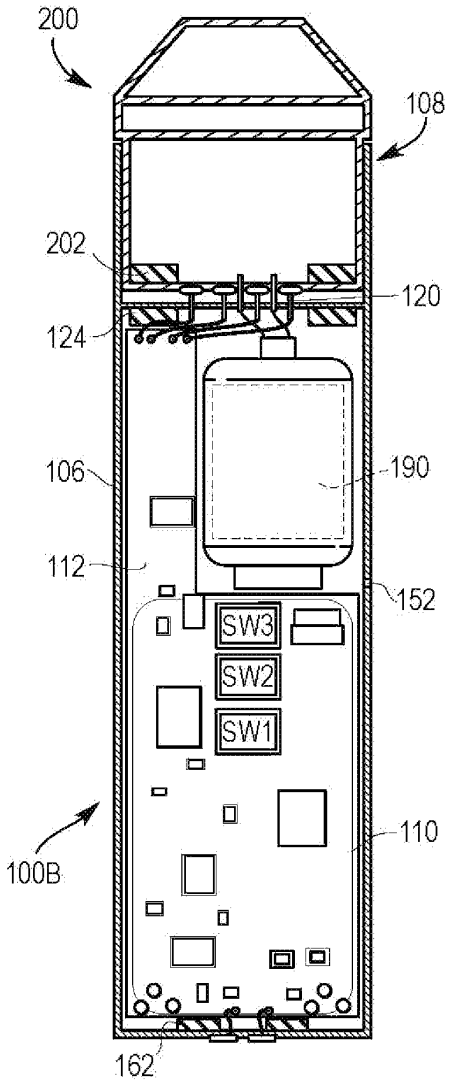

200
108
202
120
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106
190
112
152
SW3
SW2
SW1
110
100B
162

Fig. 14

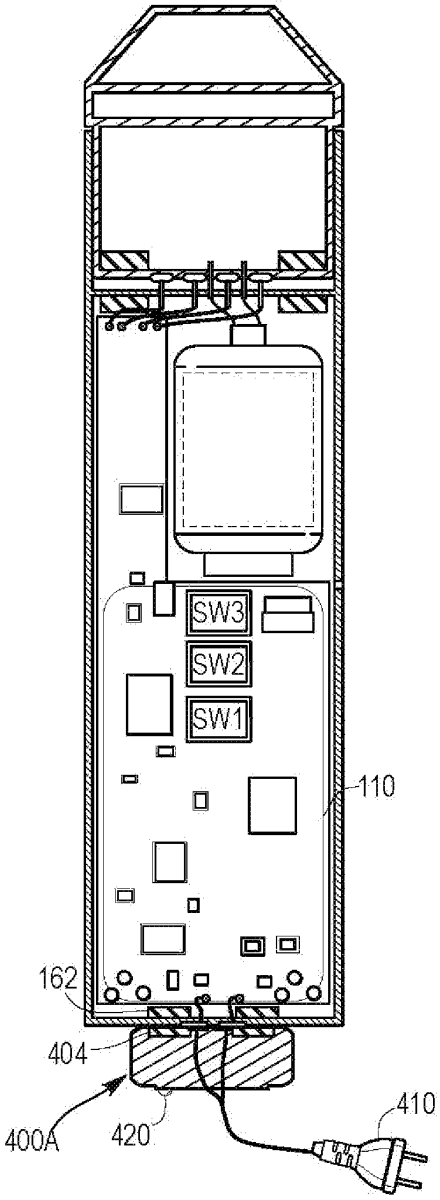
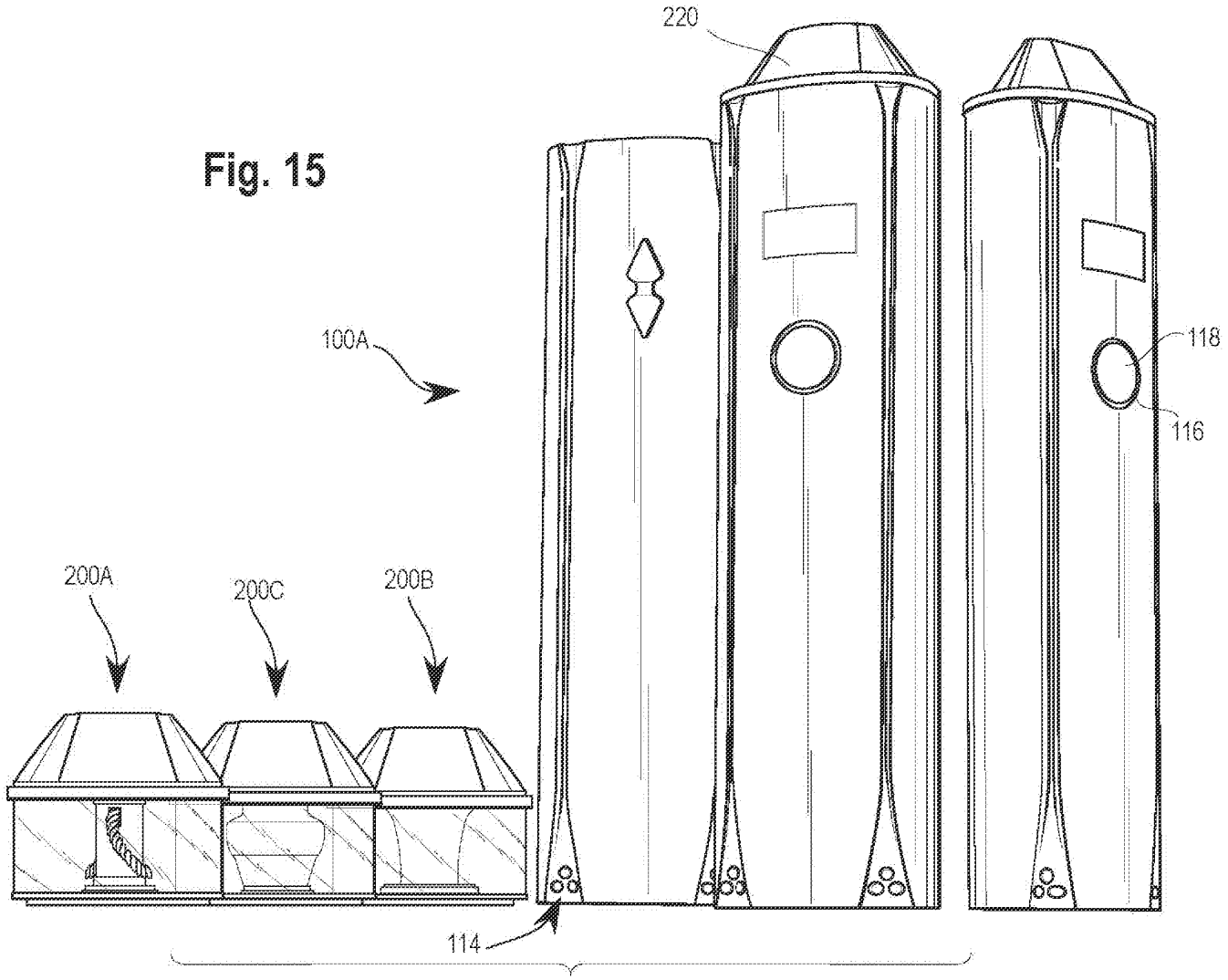
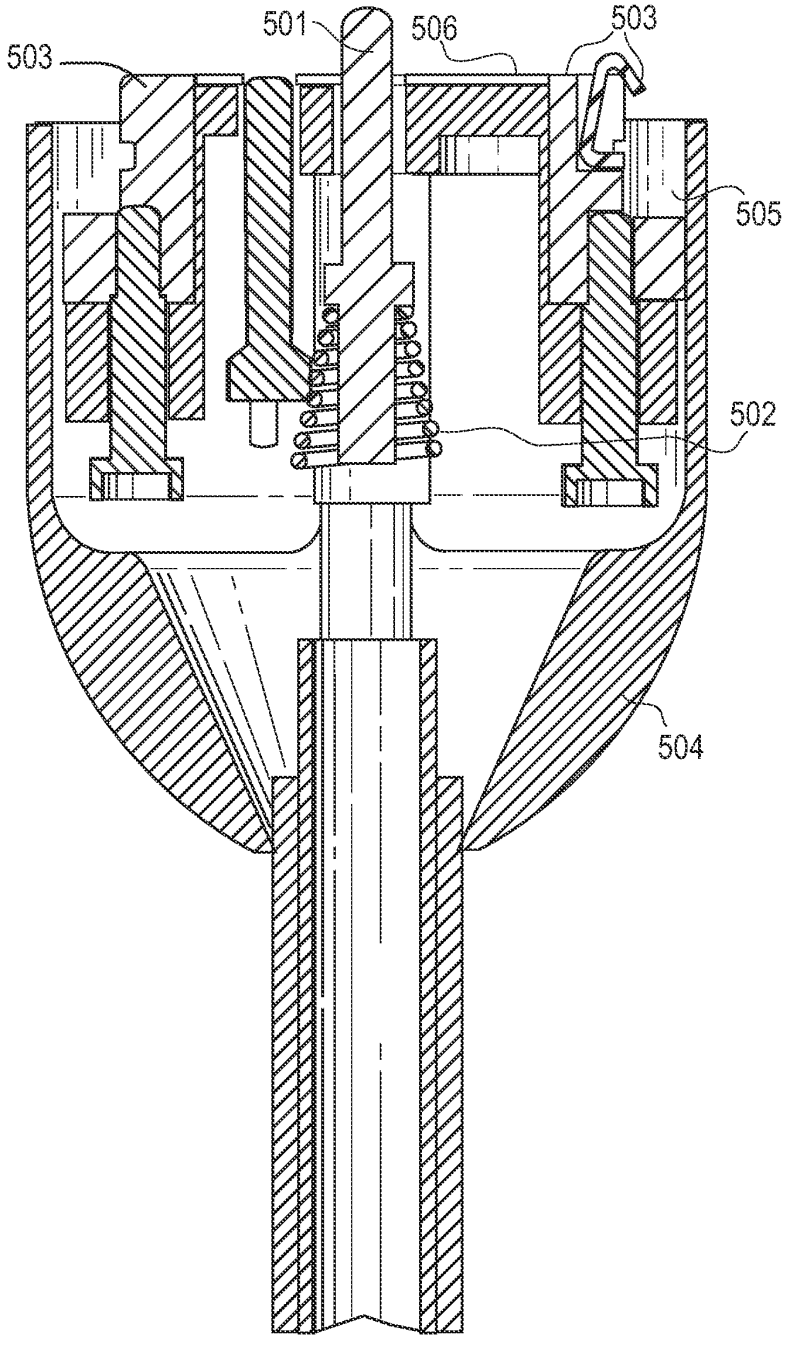

SW3
SW2
SW1
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162
404
400A
420
410

Fig. 15



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FIG. 16



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FIG. 17

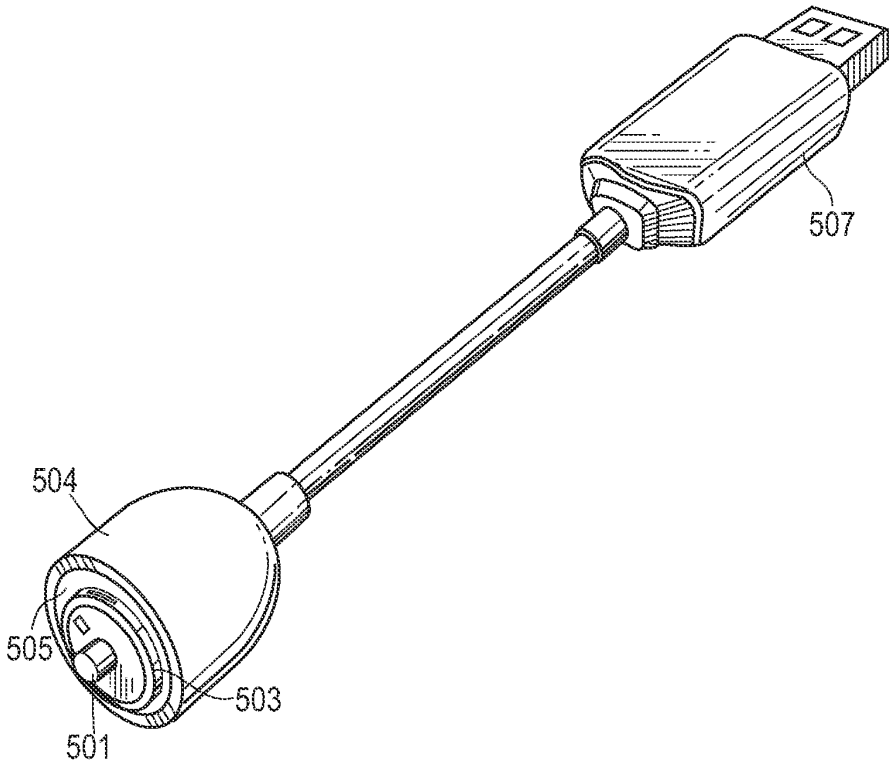


FIG. 18

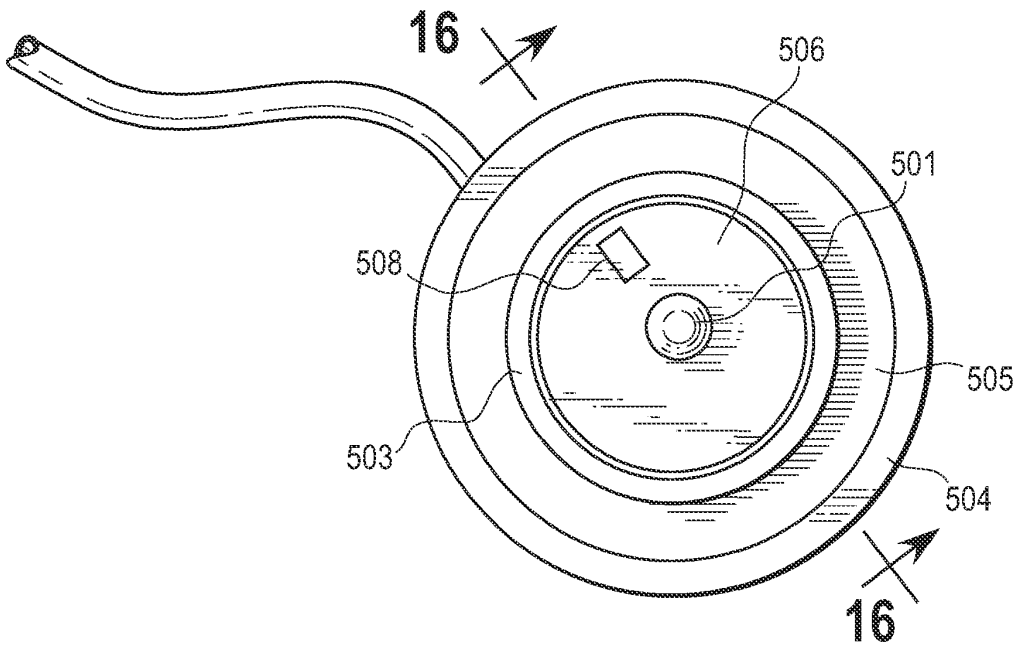
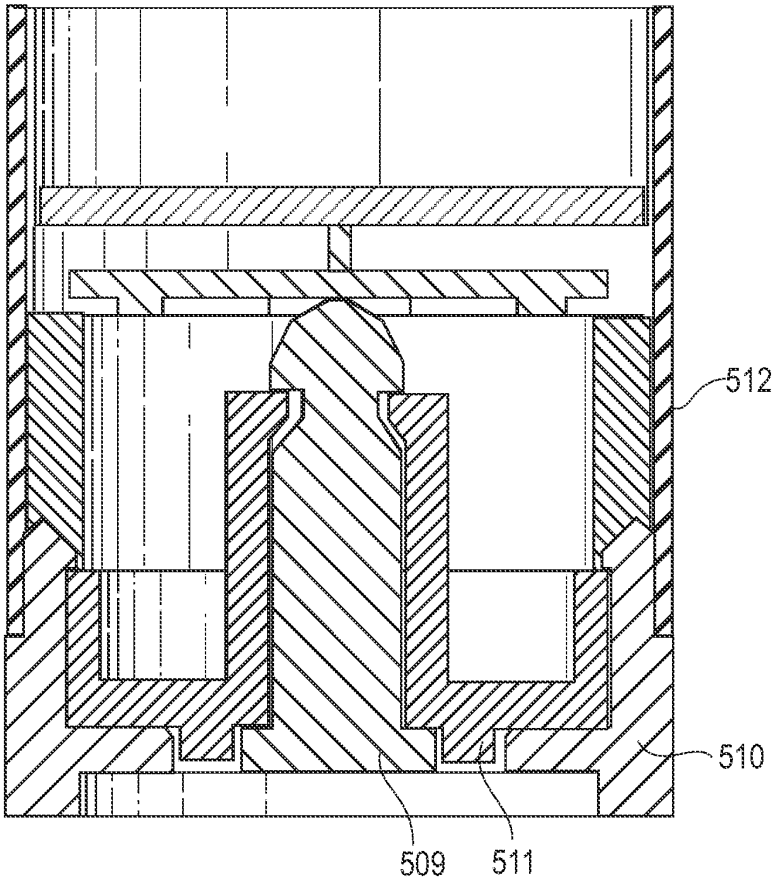
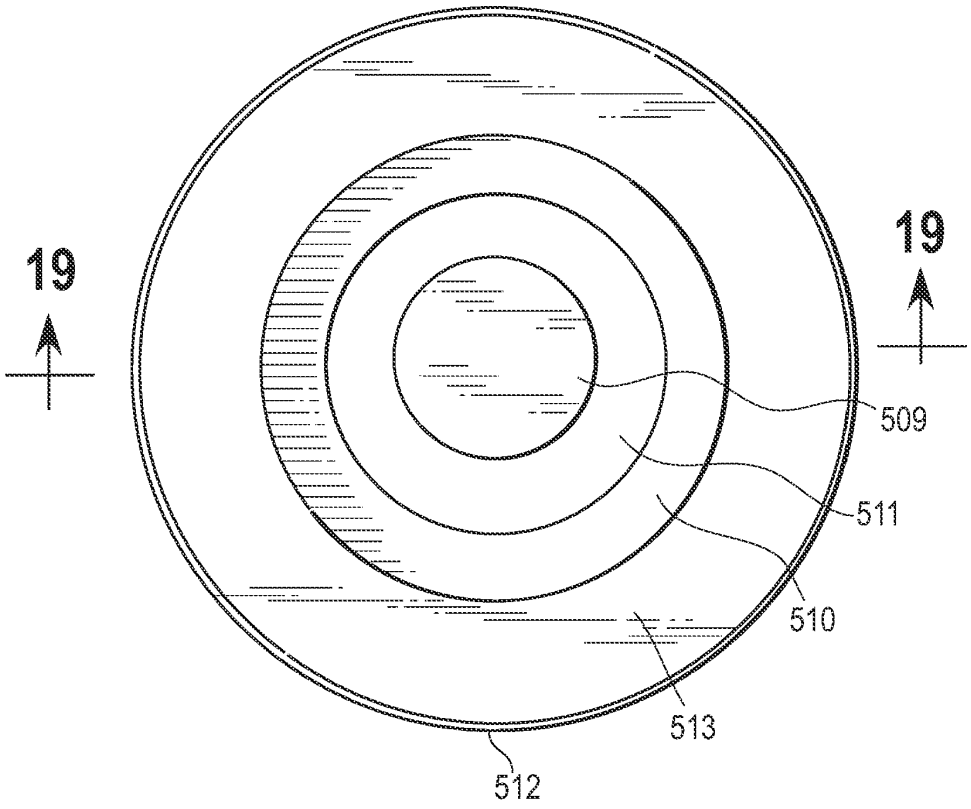


FIG. 19



NJOY Exhibit 1007.067

FIG. 20



NJOY Exhibit 1007.068

FIG. 21

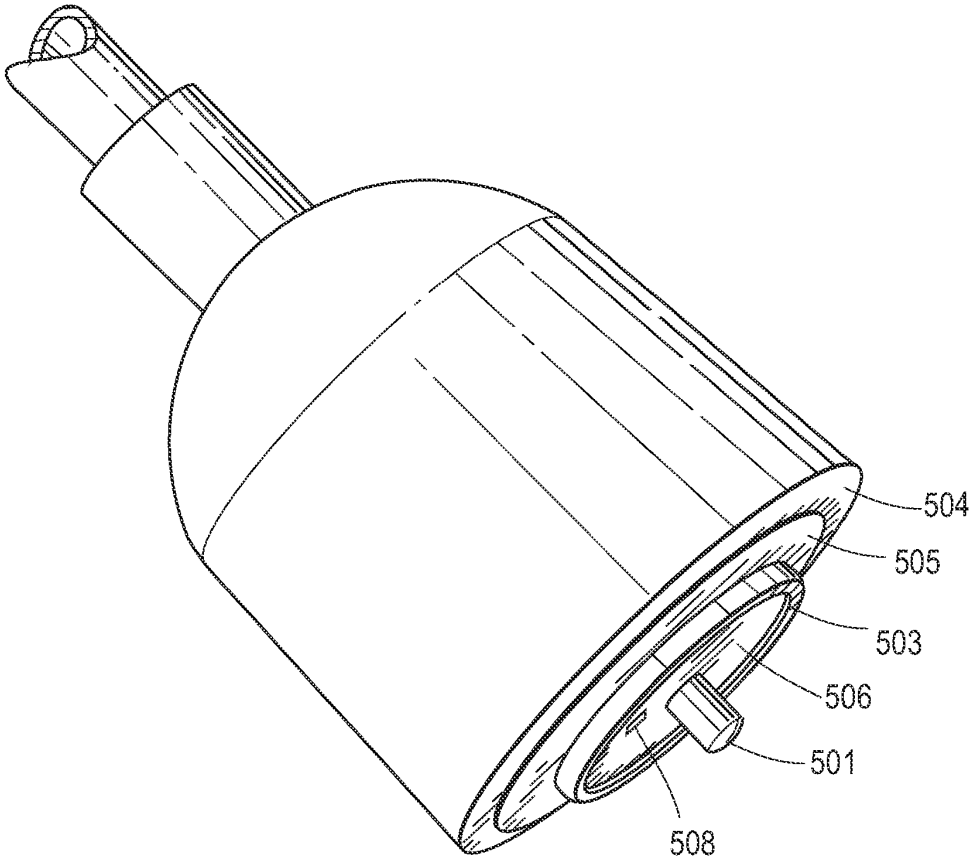
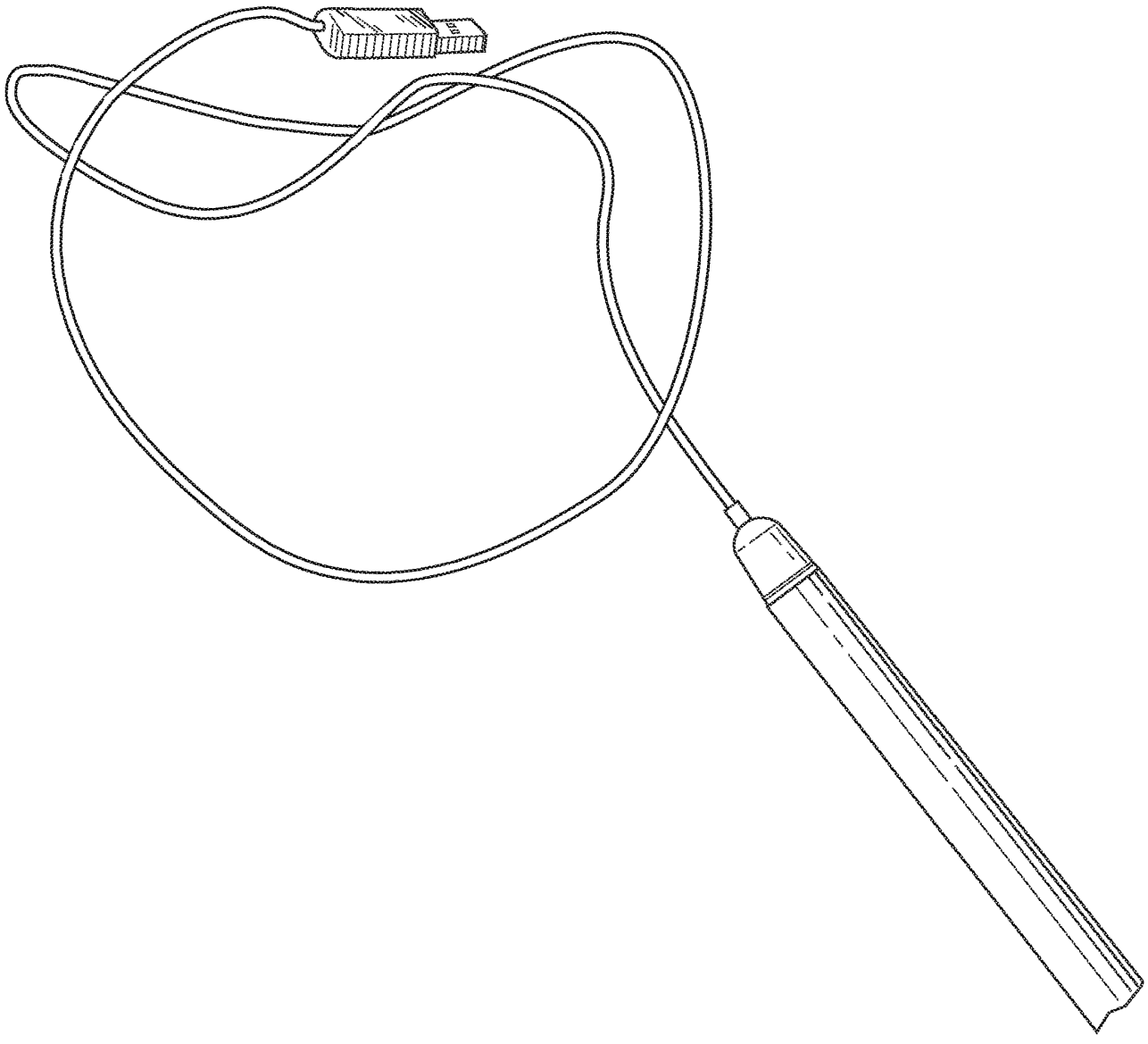


FIG. 22



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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
17/095,567	11/11/2020		0.00	55755-402C07US	9	2

CONFIRMATION NO. 6248

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OC000000121508749

Date Mailed: 11/23/2020

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Inventor(s)

Jan Andries Verleur, Miami, FL;
Dan Recio, Miami Beach, FL;
Yifeng Lu, MIAMI, FL;
Yinjun Zhang, MIAMI, FL;
Arturo Fajardo, MIAMI, FL;
Hans Verleur, El Dorado, CA;

Applicant(s)

VMR Products LLC, San Francisco, CA;

Power of Attorney: The patent practitioners associated with Customer Number 148514

Domestic Priority data as claimed by applicant

This application is a CON of 14/201,267 03/07/2014 *
which is a CON of 14/196,729 03/04/2014 PAT 10039321 *
which claims benefit of 61/937,851 02/10/2014
and claims benefit of 61/903,344 11/12/2013
(*)Data provided by applicant is not consistent with PTO records.

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

NJOY Exhibit 1007.072

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: 11/20/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/095,567**

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title

VAPORIZER,C HARGER AND METHODS OF USE CROSS REFERENCE TO RELATED APPLICTIONS

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.

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NJOY Exhibit 1007.073

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LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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

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SelectUSA

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NJOY Exhibit 1007.074

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.

NJOY Exhibit 1007.075

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 17/095,567

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	9 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

AMENDMENT A

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

AMENDMENT B

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

NJOY Exhibit 1007.076

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	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US

CONFIRMATION NO. 6248

148514
Mintz/JUUL
One Financial Center
Boston, MA 02111

FORMALITIES LETTER

OC000000121508750

Date Mailed: 11/23/2020

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
- The application search fee must be submitted.
- The application examination fee must be submitted.
- Surcharge as set forth in 37 CFR 1.16(f) must be submitted.
  The surcharge is due for any one of:
  - late submission of the basic filing fee, search fee, or examination fee,
  - late submission of inventor's oath or declaration,
  - filing an application that does not contain at least one claim on filing, or
  - submission of an application filed by reference to a previously filed application.

SUMMARY OF FEES DUE:

The fee(s) required within **TWO MONTHS** from the date of this Notice to avoid abandonment is/are itemized below. No entity status discount is in effect. If applicant is qualified for small entity status, a written assertion of small entity status must be submitted to establish small entity status. (See 37 CFR 1.27). If applicant is qualified for micro entity status, an acceptable Certification of Micro Entity Status must be submitted to establish micro entity status. (See 37 CFR 1.29 and forms PTO/SB/15A and 15B.)

- $ **320** basic filing fee.
- $ **160** surcharge.
- $ **700** search fee.
- $ **800** examination fee.
- $(**0**) previous unapplied payment amount.
- $ **1980** TOTAL FEE BALANCE DUE.

NJOY Exhibit 1007.077

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web, including a copy of this Notice and selecting the document description "Applicant response to Pre-Exam Formalities Notice". https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

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

/bzewdie/

NJOY Exhibit 1007.078

Docket No.: 55755-402C07US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of:
Jan Andries Verleur et al.

Application No.: 17/095,567 | Confirmation No.: 6248

Filed: November 11, 2020 | Art Unit: N/A

For: VAPORIZER | Examiner: Not Yet Assigned

REQUEST FOR CORRECTED FILING RECEIPT

Office of Initial Patent Examination's Filing Receipt Corrections
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant hereby requests that a corrected Filing Receipt be issued in the above-identified patent application. The official Filing Receipt received by Applicant, a copy of which is attached hereto, has an error in the title. The correct title of the invention is:

VAPORIZER

The title was correct in the Application Data Sheet as originally filed. Applicant additionally requests that all pertinent U.S. Patent and Trademark Office records relating to the subject application be changed to reflect this correction.

Applicant believes no fee is due with this request. However, if a fee is due, the Commissioner is hereby authorized to charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 55755-402C07US.

Dated: December 2, 2020

Respectfully submitted,

Electronic signature: /FCH/
Fred C. Hernandez
Registration No.: 41,832
MINTZ LEVIN COHN FERRIS GLOVSKY
AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

NJOY Exhibit 1007.080

Electronic Acknowledgement Receipt

EFS ID:	41274090
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER,C HARGER AND METHODS OF USE CROSS REFERENCE TO RELATED APPLICTIONS
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Fred C. Hernandez/Teri Barnett
Filer Authorized By:	Fred C. Hernandez
Attorney Docket Number:	55755-402C07US
Receipt Date:	02-DEC-2020
Filing Date:	11-NOV-2020
Time Stamp:	14:39:41
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	55755_402C07US_Request_Corrected_Filing_Receipt.pdf	104059 ccaa0d4b97a2a95a62dc2ab9e2de24e31b49aa37	no	2

Warnings:

Information:					
2	Miscellaneous Incoming Letter	55755_402C07US_marked_up_Filing_Receipt.pdf	215509 2f21d86eb34ae0acb8c398ea13c461c8678dfc1a	no	4
Warnings:					
Information:					
			Total Files Size (in bytes):	319568	

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

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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
17/095,567	11/11/2020		0.00	55755-402C07US	9	2

CONFIRMATION NO. 6248

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Mintz/JUUL
One Financial Center
Boston, MA 02111

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Applicant(s)

VMR Products LLC, San Francisco, CA;

Power of Attorney: The patent practitioners associated with Customer Number 148514

Domestic Priority data as claimed by applicant

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which is a CON of 14/196,729 03/04/2014 PAT 10039321 *
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NJOY Exhibit 1007.083

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Permission to Access Search Results: Yes

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Projected Publication Date: To Be Determined - pending completion of Missing Parts

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Early Publication Request: No

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VAPORIZER~~; CHARGER AND METHODS OF USE CROSS REFERENCE TO RELATED APPLICTIONS~~

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NJOY Exhibit 1007.084

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NJOY Exhibit 1007.085

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.

NJOY Exhibit 1007.086

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
17/095,567	11/11/2020		0.00	55755-402C07US	9	2

CONFIRMATION NO. 6248

148514
Mintz/JUUL
One Financial Center
Boston, MA 02111

CORRECTED FILING RECEIPT

OC000000121787389

Date Mailed: 12/04/2020

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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Yinjun Zhang, MIAMI, FL;
Arturo Fajardo, MIAMI, FL;
Hans Verleur, El Dorado, CA;

Applicant(s)

VMR Products LLC, San Francisco, CA;

Power of Attorney: The patent practitioners associated with Customer Number 148514

Domestic Priority data as claimed by applicant

This application is a CON of 14/201,267 03/07/2014 *
which is a CON of 14/196,729 03/04/2014 PAT 10039321 *
which claims benefit of 61/937,851 02/10/2014
and claims benefit of 61/903,344 11/12/2013
(*)Data provided by applicant is not consistent with PTO records.

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

NJOY Exhibit 1007.087

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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If Required, Foreign Filing License Granted: 11/20/2020
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/095,567**
Projected Publication Date: To Be Determined - pending completion of Missing Parts
Non-Publication Request: No
Early Publication Request: No
Title

VAPORIZER

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.

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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,

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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 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

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Electronic Patent Application Fee Transmittal

Application Number:	17095567
Filing Date:	11-Nov-2020
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Fred C. Hernandez/Teri Barnett
Attorney Docket Number:	55755-402C07US

Filed as Large Entity

Filing Fees for Utility 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
Pages:				
Claims:				
Miscellaneous-Filing:				
LATE FILING FEE FOR OATH OR DECLARATION	1051	1	160	160
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		1980

AMENDMENTS TO THE CLAIMS

Please replace all prior listings of claims with the following listing of claims.

Listing of Claims.

1-9 (Cancelled)

10. (New) A cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising:

a cartomizer body configured to hold a fluid vaporizable substance, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance, wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device;

a heating element and a wicking element within the cartomizer body;

an inhalation tube in fluid communication with the heating element and the wicking element;

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube; and

a plurality of cartomizer electrical contacts on an exterior of the insertion end, wherein the plurality of cartomizer electrical contacts is positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

11. (New) The cartomizer of claim 10, wherein the translucent material comprises glass or plastic.

12. (New) The cartomizer of claim 10, wherein the portion of the cartomizer body composed of the translucent material is proximate to LED lights or fiber optics so as to illuminate the cartomizer body as the cartomizer body is inserted into the chamber.

13. (New) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a snap fit connector.

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14. (New) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a cartomizer metallic surface configured to be attracted to at least one magnet in or proximate to the chamber.

15. (New) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a friction fit or a suction fit using a pressurized structure.

16. (New) The cartomizer of claim 10, wherein the inhalation tube is in fluid communication with one or more holes or ducts provided inside of the outer shell when the cartomizer body is inserted into the chamber.

17. (New) The cartomizer of claim 10, wherein the plurality of cartomizer electrical contacts is further configured to at least partially compress the plurality of battery electrical contacts when the cartomizer body is inserted into the chamber.

18. (New) The cartomizer of claim 10, wherein the cartomizer further comprises a structure for being secured and aligned in the chamber.

19. (New) A vaporizer device comprising the cartomizer of claim 10 and a battery portion, the battery portion having a first end and a second end and comprising:

a battery housing segment proximate the first end of the battery portion; and

a cartomizer receiving segment proximate the second end of the battery portion, the cartomizer receiving segment comprising the chamber.

20. (New) The vaporizer device of claim 19, wherein outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment.

21. (New) The vaporizer device of claim 19, further comprising a rechargeable battery in the battery housing segment.

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22. (New) The vaporizer device of claim 21, wherein a window is provided in the outer shell, and wherein the translucent portion of the cartomizer body aligns with the window when the cartomizer body is inserted into the chamber.

23. (New) The vaporizer device of claim 22, wherein the window comprises a slit cut into the outer shell.

24. (New) A cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising:

a cartomizer body configured to hold a vaporizable substance, wherein the vaporizable substance is in a fluid state, wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device;

a heating element within the cartomizer body;

cartomizer electrical contacts operable to direct current to the heating element; and

a wicking element inside the cartomizer body, the wicking element configured to absorb the vaporizable substance;

an inhalation tube in fluid communication with the heating element and the wicking element; and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube.

25. (New) The cartomizer of claim 24, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance.

26. (New) The cartomizer of claim 24, wherein the cartomizer electrical contacts are on an exterior of the cartomizer body.

27. (New) The cartomizer of claim 24, wherein the vaporizable substance comprises a liquid comprising nicotine.

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28. (New) The cartomizer of claim 24, wherein cartomizer electrical contacts are positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

29. (New) A vaporizer device comprising the cartomizer of claim 24 and a battery portion, the battery portion having a first end and a second end, the battery portion comprising:

a chamber of a cartomizer receiving segment, the chamber configured for receiving the cartomizer body, the cartomizer electrical contacts, and the heating element through an opening at a distal insertion end of the battery portion;

a battery segment disposed between the cartomizer receiving segment and a battery end of the battery portion opposite from the distal insertion end of the battery portion, the battery segment comprising a battery;

battery electrical contacts for completing a circuit with the cartomizer electrical contacts when the cartomizer electrical contacts are received into the chamber, the battery electrical contacts being coplanar; and

an outer shell forming at least part of the chamber, wherein a window is formed in the outer shell to permit viewing of the cartomizer body when the cartomizer body is received into the chamber.

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REMARKS

Upon entry of the amendment to the claims, claims 1-9 are cancelled, claim 10 -29 are pending, with claims 10 and 24 being independent claims. These amendments are supported by the application as originally filed and do not introduce new matter.

In response to the Notice to File Missing Parts (Notice), mailed November 23, 2020, the undersigned respectfully submits this Preliminary Amendment, including: a Surcharge (for the late submission of the basic filing fees); the Statutory Basic Filing, Application Search and Examination Fees, for a total amount of $1980.00 to Deposit Account No. 50-0311.

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CONCLUSION

Favorable action on the merits is respectfully requested.

If there are any questions regarding these amendments and remarks, the Examiner is encouraged to contact the undersigned at the telephone number provided below. No additional fees is believed to be due at this time, however, the Commissioner is hereby authorized to charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 55755-402C07US.

Dated: January 20, 2021

Respectfully submitted,

Electronic signature: /FCH/
Fred C. Hernandez
Registration No.: 41832
MINTZ LEVIN COHN FERRIS
GLOVSKY AND POPEO, P.C.
3580 Carmel Mountain Road, Suite 300
San Diego, CA 92130
858-314-1518
858-314-1501
Attorney for Applicant

NJOY Exhibit 1007.098

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Jan Andries VERLEUR et al.

Application No.: 17/095,567	Confirmation No.: 6248
Filed: November 11, 2020	Art Unit: Unknown
For: VAPORIZER	Examiner: Unknown

PRELIMINARY AMENDMENT AND RESPONSE TO NOTICE TO FILE MISSING PARTS

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Prior to examination on the merits, Applicant respectfully submits this Preliminary Amendment in response to the Notice to File Missing Parts, mailed November 23, 2020. The undersigned respectfully requests entry and consideration of this Amendment in the above-identified patent application. In the response,

Amendments to the Claims begin on page 2 of this paper;

Remarks begin on page 6 of this paper.

Electronic Acknowledgement Receipt	
EFS ID:	41696081
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Fred C. Hernandez/Teri Barnett
Filer Authorized By:	Fred C. Hernandez
Attorney Docket Number:	55755-402C07US
Receipt Date:	20-JAN-2021
Filing Date:	11-NOV-2020
Time Stamp:	15:54:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1980
RAM confirmation Number	E20211JF54423373
Deposit Account	500311
Authorized User	Teri Barnett
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.21 (Miscellaneous fees and charges) 37 CFR 1.19 (Document supply fees)	

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		55755_402C07US_Prelim_Amend_ResponseNTFMP.pdf	127133 578a8a1c6c171c896b64f6cdc64fdeedd0788888	yes	7

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Applicant Arguments/Remarks Made in an Amendment	6	7
Claims	2	5
Preliminary Amendment	1	1

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	37180 542da622ead73e98f7711f82211f17b3ae4d956d	no	2

Warnings:

Information:

Total Files Size (in bytes):	164313

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 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
17/095,567	11/11/2020		1980	55755-402C07US	20	2

CONFIRMATION NO. 6248

148514
Mintz/JUUL
One Financial Center
Boston, MA 02111

UPDATED FILING RECEIPT

OC000000122811291

Date Mailed: 01/22/2021

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)

Jan Andries Verleur, Miami, FL;
Dan Recio, Miami Beach, FL;
Yifeng Lu, MIAMI, FL;
Yinjun Zhang, MIAMI, FL;
Arturo Fajardo, MIAMI, FL;
Hans Verleur, El Dorado, CA;

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Permission to Access Search Results: Yes

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Projected Publication Date: 04/29/2021
Non-Publication Request: No
Early Publication Request: No
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 17/095,567

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	20 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) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

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

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

Electronic Acknowledgement Receipt

EFS ID:	42416736
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Nicholas Paul Mouton/Meghan Breault
Filer Authorized By:	Nicholas Paul Mouton
Attorney Docket Number:	55755-402C07US
Receipt Date:	09-APR-2021
Filing Date:	11-NOV-2020
Time Stamp:	20:57:31
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	Foreign Reference	CN204070533U.pdf	597180 ac38d0319403d44b7df4cc2e74e5922a2ed952d5	no	10

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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.

Electronic Acknowledgement Receipt	
EFS ID:	42416848
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Nicholas Paul Mouton/Meghan Breault
Filer Authorized By:	Nicholas Paul Mouton
Attorney Docket Number:	55755-402C07US
Receipt Date:	09-APR-2021
Filing Date:	11-NOV-2020
Time Stamp:	20:58:09
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.)
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2	Foreign Reference	WO2016065596A1.pdf	510811 1fce41959f4ba5da74b3c6f0b603e8bf99a66526	no	22
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3	Foreign Reference	WO2016065598A1.pdf	626081 b8173b639113f8e70eded37f3c957bbf08e7074d	no	24
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4	Foreign Reference	WO2016065599A1.pdf	666237 6e4518b345e02d7b8a65ce6b37b8f2a1f693df81	no	26
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5	Foreign Reference	WO2016070553A1.pdf	980202 c5c82b3f85301050d233a3484091d3b37248ed9a	no	35
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6	Transmittal Letter	055755-402C07US_IDS_Transmittal.pdf	88789 6228504d611ee610cb63a19dfb8012f29455e87c	no	3
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7	Information Disclosure Statement (IDS) Form (SB08)	055755-402C07US_SB08_1.pdf	180439 83396ce5deaaccc59a1dc6e2a3cd117445adfa9f	no	3
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<u>New Applications Under 35 U.S.C. 111</u>
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.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
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.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
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.

Used in Lieu of PTO/SB/08A/B
(Based on PTO 11-07 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
(Use as many sheets as necessary)				Art Unit	1747
				Examiner Name	Not Yet Assigned
Sheet	1	of	16	Attorney Docket Number	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US-10039321	08-07-2018	Verleur et al.	
	B	US-10058122	08-28-2018	Steingraber et al.	
	C	US-10058124	08-28-2018	Monsees et al.	
	D	US-10085481	10-02-2018	Verleur et al.	
	E	US-10111467	10-30-2018	Arnel et al.	
	F	US-10143233	12-04-2018	Dubief et al.	
	G	US-10195370	02-05-2019	Chen	
	H	US-20020043262-A1	04-18-2002	Langford et al.	
	I	US-20020078951-A1	06-27-2002	Nichols et al.	
	J	US-20020088469-A1	07-11-2002	Rennecamp	
	K	US-20030226837-A1	12-11-2003	Blake et al.	
	L	US-20040050382-A1	03-18-2004	Goodchild	
	M	US-20050016550-A1	01-27-2005	Katase	
	N	US-20070045288-A1	03-01-2007	Nelson	
	O	US-20070074734-A1	04-05-2007	Braunshteyn et al.	
	P	US-20070229025-A1	10-04-2007	Tsai et al.	
	Q	US-20070277816-A1	12-06-2007	Morrison et al.	
	R	US-20080023003-A1	01-31-2008	Rosenthal	
	S	US-20080029095-A1	02-07-2008	Esser	
	T	US-20080257367-A1	10-23-2008	Paterno et al.	
	U	US-20080302374-A1	12-11-2008	Wengert et al.	
	V	US-20090095287-A1	04-16-2009	Emarlou	
	W	US-20090133691-A1	05-28-2009	Yamada et al.	
	X	US-20090293892-A1	12-03-2009	Williams et al.	
	Y	US-20090302019-A1	12-10-2009	Selenski et al.	
	Z	US-20100031968-A1	02-11-2010	SHEIKH et al.	
	AA	US-20100200008-A1	08-12-2010	Taieb	
	AB	US-20110192397-A1	08-11-2011	Saskar et al.	
	AC	US-20110226266-A1	09-22-2011	Tao	
	AD	US-20110277761-A1	11-17-2011	Terry et al.	
	AE	US-20110278189-A1	11-17-2011	Terry et al.	
	AF	US-20120018529-A1	01-26-2012	Gammon et al.	
	AG	US-20120174914-A1	07-12-2012	Pirshafiey et al.	
	AH	US-20120199146-A1	08-09-2012	Marangos	
	AI	US-20120312313-A1	12-13-2012	FRIJA	
	AJ	US-20120325227-A1	12-27-2012	Robinson et al.	
	AK	US-20130014772-A1	01-17-2013	Liu	
	AL	US-20130056013-A1	03-07-2013	Terry et al.	

Submission 2 of 2

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(Based on PTO 11-07 version)

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
				Examiner Name	Not Yet Assigned
Sheet	2	of	16	Attorney Docket Number	

	AM	US-20130087160-A1	04-11-2013	Gherghe		
	AN	US-20130174842-A1	07-11-2013	Young et al.		
	AO	US-20130182421-A1	07-18-2013	Popper et al.		
	AP	US-20130253433-A1	09-26-2013	Senior et al.		
	AQ	US-20130255702-A1	10-03-2013	Griffith, JR. et al.		
	AR	US-20130306084-A1	11-21-2013	Flick		
	AS	US-20130312742-A1	11-28-2013	MONSEES et al.		
	AT	US-20130319431-A1	12-05-2013	Cyphert et al.		
	AU	US-20130319435-A1	12-05-2013	Flick		
	AV	US-20130323941-A1	12-05-2013	Zeliff et al.		
	AW	US-20140000638-A1	01-02-2014	Sebastian et al.		
	AX	US-20140041655-A1	02-13-2014	Barron et al.		
	AY	US-20140060552-A1	03-06-2014	Cohen		
	AZ	US-20140060556-A1	03-06-2014	Liu		
	BA	US-20140096782-A1	04-10-2014	Ampolini et al.		
	BB	US-20140150785-A1	06-05-2014	Malik et al.		
	BC	US-20140158129-A1	06-12-2014	Pratt, JR. et al.		
	BD	US-20140166030-A1	06-19-2014	LI et al.		
	BE	US-20140174458-A1	06-26-2014	KATZ		
	BF	US-20140182612-A1	07-03-2014	CHEN		
	BG	US-20140190477-A1	07-10-2014	Qiu		
	BH	US-20140202454-A1	07-24-2014	Buchberger		
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	BJ	US-20140216484-A1	08-07-2014	Liu		
	BK	US-20140224244-A1	08-14-2014	Liu		
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	BM	US-20140261487-A1	09-18-2014	Chapman et al.		
	BN	US-20140261488-A1	09-18-2014	Tucker		
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	BP	US-20140261493-A1	09-18-2014	Smith et al.		
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	BR	US-20140270729-A1	09-18-2014	DePiano et al.		
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	BU	US-20140283859-A1	09-25-2014	Minskoff et al.		
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Submission 2 of 2

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(Based on PTO 11-07 version)

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
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	CC	US-20140338685-A1	11-20-2014	Amir		
	CD	US-20140345631-A1	11-27-2014	Bowen et al.		
	CE	US-20140353856-A1	12-04-2014	Dubief		
	CF	US-20140355969-A1	12-04-2014	Stern		
	CG	US-20140360516-A1	12-11-2014	LIU		
	CH	US-20140366896-A1	12-18-2014	LI et al.		
	CI	US-20140373833-A1	12-25-2014	LIU		
	CJ	US-20140376895-A1	12-25-2014	Han		
	CK	US-20150007836-A1	01-08-2015	Li et al.		
	CL	US-20150013695-A1	01-15-2015	McNeal et al.		
	CM	US-20150020825-A1	01-22-2015	Galloway et al.		
	CN	US-20150027457-A1	01-29-2015	Janardhan et al.		
	CO	US-20150027460-A1	01-29-2015	Liu		
	CP	US-20150027471-A1	01-29-2015	Feldman et al.		
	CQ	US-20150034103-A1	02-05-2015	Hon		
	CR	US-20150034104-A1	02-05-2015	Zhou		
	CS	US-20150040929-A1	02-12-2015	Hon		
	CT	US-20150047658-A1	02-19-2015	Cyphert et al.		
	CU	US-20150053220-A1	02-26-2015	Levy et al.		
	CV	US-20150059787-A1	03-05-2015	Qiu		
	CW	US-20150083147-A1	03-26-2015	Schiff et al.		
	CX	US-20150090253-A1	04-02-2015	Farrow		
	CY	US-20150091501-A1	04-02-2015	Claudepierre		
	CZ	US-20150101626-A1	04-16-2015	LI et al.		
	DA	US-20150128967-A1	05-14-2015	Robinson et al.		
	DB	US-20150128977-A1	05-14-2015	LI et al.		
	DC	US-20150136158-A1	05-21-2015	Stevens et al.		
	DD	US-20150144145-A1	05-28-2015	Chang et al.		
	DE	US-20150144147-A1	05-28-2015	LI et al.		
	DF	US-20150150305-A1	06-04-2015	Shenkal		
	DG	US-20150150307-A1	06-04-2015	Liu		
	DH	US-20150157054-A1	06-11-2015	Liu		
	DI	US-20150164138-A1	06-18-2015	Liu		
	DJ	US-20150164141-A1	06-18-2015	Newton		
	DK	US-20150164142-A1	06-18-2015	Li et al.		
	DL	US-20150164146-A1	06-18-2015	LI et al.		
	DM	US-20150164147-A1	06-18-2015	Verleur et al.		
	DN	US-20150173422-A1	06-25-2015	Liu		
	DO	US-20150181940-A1	07-02-2015	Liu		
	DP	US-20150181943-A1	07-02-2015	LI et al.		
	DQ	US-20150181944-A1	07-02-2015	LI et al.		
	DR	US-20150189918-A1	07-09-2015	Liu		

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	DS	US-20150189919-A1	07-09-2015	Liu		
	DT	US-20150201674-A1	07-23-2015	Dooly et al.		
	DU	US-20150208730-A1	07-30-2015	LI et al.		
	DV	US-20150216234-A1	08-06-2015	Chung		
	DW	US-20150216237-A1	08-06-2015	Wensley et al.		
	DX	US-20150217068-A1	08-06-2015	Wakalopulos		
	DY	US-20150223521-A1	08-13-2015	Menting et al.		
	DZ	US-20150223522-A1	08-13-2015	Ampolini et al.		
	EA	US-20150223523-A1	08-13-2015	McCullough		
	EB	US-20150224268-A1	08-13-2015	Henry et al.		
	EC	US-20150230521-A1	08-20-2015	Talon		
	ED	US-20150245659-A1	09-03-2015	DePiano et al.		
	EE	US-20150245661-A1	09-03-2015	Milin		
	EF	US-20150245669-A1	09-03-2015	CADIEUX et al.		
	EG	US-20150257441-A1	09-17-2015	Gerkin		
	EH	US-20150257444-A1	09-17-2015	CHUNG		
	EI	US-20150257445-A1	09-17-2015	Henry, Jr. et al.		
	EJ	US-20150257447-A1	09-17-2015	Sullivan		
	EK	US-20150258289-A1	09-17-2015	Henry, JR. et al.		
	EL	US-20150272217-A1	10-01-2015	Chen		
	EM	US-20150282525-A1	10-08-2015	Plojoux et al.		
	EN	US-20150282526-A1	10-08-2015	Wu		
	EO	US-20150282529-A1	10-08-2015	LI et al.		
	EP	US-20150282530-A1	10-08-2015	Johnson et al.		
	EQ	US-20150289565-A1	10-15-2015	CADIEUX et al.		
	ER	US-20150296885-A1	10-22-2015	LIU		
	ES	US-20150296888-A1	10-22-2015	Liu		
	ET	US-20150296889-A1	10-22-2015	LIU		
	EU	US-20150305407-A1	10-29-2015	LI et al.		
	EV	US-20150313282-A1	11-05-2015	Ademe et al.		
	EW	US-20150313283-A1	11-05-2015	Collett et al.		
	EX	US-20150320116-A1	11-12-2015	Bleloch et al.		
	EY	US-20150327596-A1	11-19-2015	Alarcon et al.		
	EZ	US-20150333552-A1	11-19-2015	Alarcon		
	FA	US-20150333561-A1	11-19-2015	Alarcon		
	FB	US-20150335071-A1	11-26-2015	Brinkley et al.		
	FC	US-20150335075-A1	11-26-2015	Minskoff et al.		
	FD	US-20150342255-A1	12-03-2015	Wu		
	FE	US-20150351454-A1	12-10-2015	Huang		
	FF	US-20150351455-A1	12-10-2015	LIU		
	FG	US-20150351456-A1	12-10-2015	Johnson et al.		
	FH	US-20150357608-A1	12-10-2015	Huang		

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	FI	US-20160000147-A1	01-07-2016	LI et al.		
	FJ	US-20160007653-A1	01-14-2016	Tu		
	FK	US-20160015082-A1	01-21-2016	LIU		
	FL	US-20160021933-A1	01-28-2016	THORENS et al.		
	FM	US-20160029697-A1	02-04-2016	SHAFER		
	FN	US-20160029699-A1	02-04-2016	LI et al.		
	FO	US-20160044962-A1	02-18-2016	THORENS et al.		
	FP	US-20160044965-A1	02-18-2016	LIU		
	FQ	US-20160044966-A1	02-18-2016	LI et al.		
	FR	US-20160051716-A1	02-25-2016	Wheelock		
	FS	US-20160057811-A1	02-25-2016	Alarcon et al.		
	FT	US-20160058074-A1	03-03-2016	LIU		
	FU	US-20160073690-A1	03-17-2016	LIU		
	FV	US-20160073694-A1	03-17-2016	LIU		
	FW	US-20160081395-A1	03-24-2016	THORENS et al.		
	FX	US-20160095352-A1	04-07-2016	LIU		
	FY	US-20160106936-A1	04-21-2016	Kimmel		
	FZ	US-20160113326-A1	04-28-2016	LI et al.		
	GA	US-20160120226-A1	05-05-2016	Rado		
	GB	US-20160128384-A1	05-12-2016	LUCIANI et al.		
	GC	US-20160128388-A1	05-12-2016	LIU		
	GD	US-20160143365-A1	05-26-2016	LIU		
	GE	US-20160150824-A1	06-02-2016	MEMARI et al.		
	GF	US-20160157523-A1	06-09-2016	LIU		
	GG	US-20160198767-A1	07-14-2016	Verleur		
	GH	US-20160198768-A1	07-14-2016	Liu		
	GI	US-20160198770-A1	07-14-2016	Alarcon		
	GJ	US-20160205999-A1	07-21-2016	LIU		
	GK	US-20160219938-A1	08-04-2016	MAMOUN et al.		
	GL	US-20160242463-A1	08-25-2016	LIU		
	GM	US-20160242466-A1	08-25-2016	Lord et al.		
	GN	US-20160249682-A1	09-01-2016	LEADLEY et al.		
	GO	US-20160270442-A1	09-22-2016	Liu		
	GP	US-20160270446-A1	09-22-2016	Shenkal et al.		
	GQ	US-20160278435-A1	09-29-2016	CHOUKROUN et al.		
	GR	US-20160286865-A1	10-06-2016	KING et al.		
	GS	US-20160302471-A1	10-20-2016	BOWEN et al.		
	GT	US-20160302485-A1	10-20-2016	ALIMA		
	GU	US-20160302486-A1	10-20-2016	Eroch		
	GV	US-20160309779-A1	10-27-2016	Liu		
	GW	US-20160309789-A1	10-27-2016	Thomas, JR.		
	GX	US-20160338411-A1	11-24-2016	Liu		

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	GY	US-20160345628-A1	12-01-2016	Sabet		
	GZ	US-20160360784-A1	12-15-2016	LIU		
	HA	US-20160374393-A1	12-29-2016	CHEN		
	HB	US-20170006916-A1	01-12-2017	LIU		
	HC	US-20170013875-A1	01-19-2017	SCHENNUM et al.		
	HD	US-20170013876-A1	01-19-2017	SCHENNUM et al.		
	HE	US-20170013882-A1	01-19-2017	LIU		
	HF	US-20170013885-A1	01-19-2017	QIU		
	HG	US-20170027221-A1	02-02-2017	LIU		
	HH	US-20170035109-A1	02-09-2017	LIU		
	HI	US-20170042229-A1	02-16-2017	LIU		
	HJ	US-20170042242-A1	02-16-2017	HON		
	HK	US-20170042248-A1	02-16-2017	XIANG		
	HL	US-20170049149-A1	02-23-2017	Carty		
	HM	US-20170049152-A1	02-23-2017	LIU		
	HN	US-20170071251-A1	03-16-2017	Goch		
	HO	US-20170071256-A1	03-16-2017	VERLEUR et al.		
	HP	US-20170086501-A1	03-30-2017	BUEHLER et al.		
	HQ	US-20170099880-A1	04-13-2017	HAWES		
	HR	US-20170135401-A1	05-18-2017	DICKENS		
	HS	US-20170143038-A1	05-25-2017	DICKENS		
	HT	US-20170143040-A1	05-25-2017	LIU		
	HU	US-20170157341-A1	06-08-2017	PANDYA et al.		
	HV	US-20170164655-A1	06-15-2017	CHEN		
	HW	US-20170188629-A1	07-06-2017	DICKENS et al.		
	HX	US-20170202267-A1	07-20-2017	Liu		
	HY	US-20170207499-A1	07-20-2017	LEADLEY		
	HZ	US-20170208865-A1	07-27-2017	NETTENSTROM et al.		
	IA	US-20170208866-A1	07-27-2017	Liu		
	IB	US-20170208870-A1	07-27-2017	LIU		
	IC	US-20170214261-A1	07-27-2017	GRATTON		
	ID	US-20170215476-A1	08-03-2017	DICKENS et al.		
	IE	US-20170222468-A1	08-03-2017	SCHENNUM et al.		
	IF	US-20170224014-A1	08-10-2017	FRASER		
	IG	US-20170231284-A1	08-17-2017	NEWNS		
	IH	US-20170238611-A1	08-24-2017	BUCHBERGER		
	II	US-20170245554-A1	08-31-2017	Perez et al.		
	IJ	US-20170246405-A1	08-31-2017	WENSLEY et al.		
	IK	US-20170251725-A1	09-07-2017	BUCHBERGER et al.		
	IL	US-20170273359-A1	09-28-2017	Liu		
	IM	US-20170295847-A1	10-19-2017	Liu		
	IN	US-20170325504-A1	11-16-2017	Liu		

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	IO	US-20170347706-A1	12-07-2017	AOUN et al.	
	IP	US-3085145	04-09-1963	R.L. Wray, Jr.	
	IQ	US-3918451	11-11-1975	Steil	
	IR	US-3934117	01-20-1976	Schladitz	
	IS	US-4171000	10-16-1979	Uhle	
	IT	US-4745705	05-24-1988	Yamamoto et al.	
	IU	US-4771796	09-20-1988	Myer	
	IV	US-4793365	12-27-1988	Sensabaugh, Jr. et al.	
	IW	US-4811731	03-14-1989	Newell et al.	
	IX	US-4848374	07-18-1989	Chard et al.	
	IY	US-4947874	08-14-1990	Brooks et al.	
	IZ	US-4947875	08-14-1990	Brooks et al.	
	JA	US-4972855	11-27-1990	Kuriyama et al.	
	JB	US-4993436	02-19-1991	Bloom, Jr.	
	JC	US-5042509	08-27-1991	Banerjee et al.	
	JD	US-5117482	05-26-1992	Hauber	
	JE	US-5144962	09-08-1992	Counts et al.	
	JF	US-5261424	11-16-1993	Sprinkel, Jr.	
	JG	US-5479948	01-02-1996	Counts et al.	
	JH	US-5666977	09-16-1997	Higgins et al.	
	JI	US-5682050	10-28-1997	Williams	
	JJ	US-5865185	02-02-1999	Collins et al.	
	JK	US-6090082	07-18-2000	King et al.	
	JL	US-6155268	12-05-2000	Takeuchi	
	JM	US-6322268	11-27-2001	Kaufmann et al.	
	JN	US-6443146	09-03-2002	Voges	
	JO	US-6516796	02-11-2003	Cox et al.	
	JP	US-6532965	03-18-2003	Abhulimen et al.	
	JQ	US-6708846	03-23-2004	Fuchs et al.	
	JR	US-6772756	08-10-2004	Shayan	
	JS	US-7173222	02-06-2007	Cox et al.	
	JT	US-7318435	01-15-2008	Pentafragas	
	JU	US-7726320	06-01-2010	Robinson et al.	
	JV	US-7802569	09-28-2010	Yeates et al.	
	JW	US-7913688	03-29-2011	Cross et al.	
	JX	US-8205622	06-26-2012	Pan	
	JY	US-8251060	08-28-2012	White et al.	
	JZ	US-8365742	02-05-2013	Hon	
	KA	US-8371310	02-12-2013	Brenneise	
	KB	US-8522776	09-03-2013	Wright et al.	
	KC	US-8578942	11-12-2013	Schennum	
	KD	US-8689805	04-08-2014	Hon	

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	KE	US-8714161	05-06-2014	Liu	
	KF	US-8752545	06-17-2014	Buchberger	
	KG	US-8794231	08-05-2014	Thorens et al.	
	KH	US-8869792	10-28-2014	Lee	
	KI	US-8881737	11-11-2014	Collett et al.	
	KJ	US-8899240	12-02-2014	Mass	
	KK	US-8910639	12-16-2014	Chang et al.	
	KL	US-8948578	02-03-2015	Buchberger	
	KM	US-8955522	02-17-2015	Bowen et al.	
	KN	US-8978663	03-17-2015	Newton	
	KO	US-8991402	03-31-2015	Bowen et al.	
	KP	US-9010335	04-21-2015	Scatterday	
	KQ	US-9055770	06-16-2015	Liu	
	KR	US-9072321	07-07-2015	Liu	
	KS	US-9072322	07-07-2015	Liu	
	KT	US-9078472	07-14-2015	Liu	
	KU	US-9078474	07-14-2015	Thompson	
	KV	US-9078475	07-14-2015	Li et al.	
	KW	US-9089168	07-28-2015	Liu	
	KX	US-9095175	08-04-2015	Terry et al.	
	KY	US-9101729	08-11-2015	Liu	
	KZ	US-9113659	08-25-2015	Liu	
	LA	US-9220302	12-29-2015	DePiano et al.	
	LB	US-9220303	12-29-2015	Li et al.	
	LC	US-9247773	02-02-2016	Memari et al.	
	LD	US-9254007	02-09-2016	Liu	
	LE	US-9277768	03-08-2016	Xiu	
	LF	US-9289014	03-22-2016	Tucker et al.	
	LG	US-9308336	04-12-2016	Newton	
	LH	US-9315890	04-19-2016	Frick et al.	
	LI	US-9326547	05-03-2016	Tucker et al.	
	LJ	US-9345541	05-24-2016	Greeley et al.	
	LK	US-9351522	05-31-2016	Safari	
	LL	US-9364800	06-14-2016	Dubief	
	LM	US-9380812	07-05-2016	Chung	
	LN	US-9386805	07-12-2016	Liu	
	LO	US-9420829	08-23-2016	Thorens et al.	
	LP	US-9420831	08-23-2016	Liu	
	LQ	US-9423152	08-23-2016	Ampolini et al.	
	LR	US-9439456	09-13-2016	Liu	
	LS	US-9456633	10-04-2016	Liu	
	LT	US-9504279	11-29-2016	Chen	

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	LU	US-9516898	12-13-2016	Liu	
	LV	US-9526272	12-27-2016	Liu	
	LW	US-9532601	01-03-2017	Liu	
	LX	US-9555203	01-31-2017	Terry et al.	
	LY	US-9578898	02-28-2017	Liu	
	LZ	US-9591876	03-14-2017	Alima	
	MA	US-9603390	03-28-2017	Li et al.	
	MB	US-9609893	04-04-2017	Novak, III et al.	
	MC	US-9615607	04-11-2017	Liu	
	MD	US-9622511	04-18-2017	Zhu	
	ME	US-9629391	04-25-2017	Dube et al.	
	MF	US-9629394	04-25-2017	Aronie et al.	
	MG	US-9642397	05-09-2017	Dai et al.	
	MH	US-9675114	06-13-2017	Timmermans	
	MI	US-9675117	06-13-2017	Li et al.	
	MJ	US-9687027	06-27-2017	Poston et al.	
	MK	US-9687029	06-27-2017	Liu	
	ML	US-9717275	08-01-2017	Liu	
	MM	US-9717276	08-01-2017	Brammer et al.	
	MN	US-9723874	08-08-2017	Liu	
	MO	US-9723875	08-08-2017	Liu	
	MP	US-9730471	08-15-2017	Li et al.	
	MQ	US-9738622	08-22-2017	Dull et al.	
	MR	US-9743691	08-29-2017	Minskoff et al.	
	MS	US-9781953	10-10-2017	Verleur et al.	
	MT	US-9795168	10-24-2017	Zhu	
	MU	US-9801413	10-31-2017	Zhu	
	MV	US-9814263	11-14-2017	Cochand et al.	
	MW	US-9814265	11-14-2017	Rinker et al.	
	MX	US-9820508	11-21-2017	Arnel et al.	
	MY	US-9844234	12-19-2017	Thorens et al.	
	MZ	US-9861135	01-09-2018	Chen	
	NA	US-9918496	03-20-2018	Kane et al.	
	NB	US-9974743	05-22-2018	Rose et al.	
	NC	US-9986762	06-05-2018	Alarcon et al.	
	ND	US-9999250	06-19-2018	Minskoff et al.	
	NE	US-D590990	04-21-2009	Hon	
	NF	US-D675777	02-05-2013	Wu	
	NG	US-D688415	08-20-2013	Kim	
	NH	US-D718492	11-25-2014	Albanese	
	NI	US-D750320	02-23-2016	Verleur et al.	
	NJ	US-D750835	03-01-2016	Wei	

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	NK	US-D752280	03-22-2016	Verleur et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	**A	AU-2014208287-B2	12-08-2016	Fontem Holdings 1 BV		
	**B	AU-2017202891-B2	05-30-2019	Fontem Holdings 4 BV		
	**C	CA-2641869-A1	05-06-2010	Xia, Hao Ran		
	**D	CN-101869356-A	10-27-2010	Zheqi, Liu		
	**E	CN-102727969-B	02-26-2014	Joy (changzhou) Electronic Technology Co., Ltd		
	**F	CN-201104488-Y	08-27-2008	Shenzhen Kanger Technology Cor		
	**G	CN-201430916-Y	03-31-2010	Zheqi, Liu		
	**H	CN-201781984-U	04-06-2011	Zhenlai, Chen		
	**I	CN-202004499-U	10-05-2011	Qian, He		
	**J	CN-202566289-U	12-05-2012	Liu, Xiang		
	**K	CN-202603608-U	12-19-2012	Shenzhen Kanger Technology Co.,ltd		
	**L	CN-202890462-U	04-24-2013	Shenzhen Kanger Technology Co., Ltd		
	**M	CN-203040683-U	07-10-2013	Joy (changzhou) Electronic Technology Co., Ltd		
	**N	CN-203467677-U	03-12-2014	Joyetech (changzhou) Electronic Technology Co., Ltd		
	**O	CN-203538385-U	04-16-2014	Liu, Qiuming		
	P	CN-204070533-U	01-07-2015	Shenzhen First Union Technology Co., Ltd		
	Q	CN-204120231-U	01-28-2015	Huang, Jinzhen		
	R	CN-204180941-U	03-04-2015	Shenzhen Smoore Technology Ltd		
	S	CN-204217907-U	03-25-2015	Huizhou Kimree Technology Co., Ltd		
	**T	DE-102006004484-A1	08-09-2007	Schmidt, Karsten		
	**U	DE-19619536-A1	10-30-1997	Schuckmann, Alfred Von		
	**V	EP-0358114-A2	03-14-1990	Reynolds Tobacco Co R		
	**W	EP-2614731-A1	07-17-2013	Shenzhen First Union Technology Co., Ltd		

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Used in Lieu of PTO/SB/08A/B
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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
				Examiner Name	Not Yet Assigned
Sheet	11	of	16	Attorney Docket Number	

	**X	EP-2967154-A1	01-20-2016	Reynolds Tobacco Co R		
	**Y	GB-2264237-A	08-25-1993	Newell Robert Edward		
	**Z	GB-2266466-A	11-03-1993	Bespak PLC		
	**AA	KR-20120008751-U	12-24-2012	Kim, Dong Chun		
	**AB	KR-20120113519-A	10-15-2012	Lee, Yong Yin		
	**AC	KR-20130106741-A	09-30-2013	Lee, Yong Yin		
	**AD	KR-20130107658-A	10-02-2013	Lee, Yong Yin		
	**AE	WO-2003061716-A1	07-31-2003	Dial Corp		
	**AF	WO-2003103387-A2	12-18-2003	S.c. Johnson & Son, Inc		
	**AG	WO-2004080216-A1	09-23-2004	Best Partners Worldwide Ltd		
	**AH	WO-2008077271-A1	07-03-2008	Maas, Bernard		
	**AI	WO-2010118644-A1	10-21-2010	Technical Institute Of Physics And Chemistry, Chinese Academy Of Sciences		
	**AJ	WO-2010140841-A2	12-09-2010	Ebaco Co., Ltd		
	**AK	WO-2011125058-A1	10-13-2011	Oglesby & Butler Res & Dev Ltd		
	**AL	WO-2012043941-A1	04-05-2012	Shin, Jong-soo		
	**AM	WO-2012059726-A2	05-10-2012	Moving Sun Ltd		
	**AN	WO-2012062600-A1	05-18-2012	British American Tobacco Co		
	**AO	WO-2012173322-A1	12-20-2012	Kim, Hyoung Yun		
	**AP	WO-2013020220-A1	02-14-2013	Wisplite Technology Group Inc		
	**AQ	WO-2013040193-A2	03-21-2013	Perrigo L Co		
	**AR	WO-2013044537-A1	04-04-2013	Joyetech (changzhou) Electronics Co., Ltd		
	**AS	WO-2013068100-A1	05-16-2013	Philip Morris Prod		
	**AT	WO-2013076750-A1	05-30-2013	Montrade S R L		
	**AU	WO-2013083635-A1	06-13-2013	Philip Morris Prod		
	**AV	WO-2013089358-A1	06-20-2013	Choi, Sang Jin		
	**AW	WO-2013110208-A1	08-01-2013	Maas, Bernard		
	**AX	WO-2013110209-A1	08-01-2013	Maas, Bernard		
	**AY	WO-2013110210-A1	08-01-2013	Maas, Bernard Karel		
	**AZ	WO-2013113173-A1	08-08-2013	Maas, Bernard Karel		
	**BA	WO-2013113174-A1	08-08-2013	Maas, Bernard Karel		
	**BB	WO-2013116567-A1	08-08-2013	Altria Client Services Inc		
	**BC	WO-2013116983-A1	08-15-2013	Maas, Bernard Karel		
	**BD	WO-2013171206-A1	11-21-2013	British American Tobacco Nc Ltd		

Submission 2 of 2

Used in Lieu of PTO/SB/08A/B
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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)* Sheet 12 of 16	*Complete if Known*	
	Application Number	17/095,567
	Filing Date	November 11, 2020
	First Named Inventor	Jan Andries Verleur
	Art Unit	1747
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	

	**BE	WO-2013174001-A1	11-28-2013	Shenzhen Bauway Technology Ltd		
	**BF	WO-2014047948-A1	04-03-2014	Wu, Changming		
	**BG	WO-2014071747-A1	05-15-2014	Xiu, Yunqiang		
	**BH	WO-2014101401-A1	07-03-2014	Shenzhen Happy Vaping Technology Ltd		
	**BI	WO-2014101734-A1	07-03-2014	Shenzhen Smoore Technology Ltd		
	**BJ	WO-2014110750-A1	07-24-2014	Huang, Xianhui		
	**BK	WO-2014121509-A1	08-14-2014	Liu, Qiuming		
	**BL	WO-2014127446-A1	08-28-2014	9208 8699 Québec Inc		
	**BM	WO-2014150979-A2	09-25-2014	Reynolds Tobacco Co R		
	**BN	WO-2014161181-A1	10-09-2014	Liu, Qiuming		
	**BO	WO-2014169667-A1	10-23-2014	Hubei China Tobacco Industry Co., Ltd		
	**BP	WO-2015024239-A1	02-26-2015	Kimree Hi Tech Inc		
	**BQ	WO-2015027383-A1	03-05-2015	Kimree Hi Tech Inc		
	**BR	WO-2015027435-A1	03-05-2015	Kimree Hi Tech Inc		
	**BS	WO-2015027470-A1	03-05-2015	Liu, Shuigen		
	**BT	WO-2015032093-A1	03-12-2015	Lin, Guangrong		
	**BU	WO-2015037925-A1	03-19-2015	Park, Sun Soon		
	**BV	WO-2015051538-A1	04-16-2015	Kimree Hi Tech Inc		
	**BW	WO-2015054862-A1	04-23-2015	Kimree Hi Tech Inc		
	**BX	WO-2015066136-A1	05-07-2015	Reynolds Tobacco Co R		
	**BY	WO-2015066927-A1	05-14-2015	Kimree Hi Tech Inc		
	**BZ	WO-2015070398-A1	05-21-2015	Kimree Hi Tech Inc		
	**CA	WO-2015070405-A1	05-21-2015	Kimree Hi Tech Inc		
	**CB	WO-2015071703-A1	05-21-2015	Chen, Leon		
	**CC	WO-2015074187-A1	05-28-2015	Kimree Hi Tech Inc		
	**CD	WO-2015074265-A1	05-28-2015	Kimree Hi Tech Inc		
	**CE	WO-2015079197-A1	06-04-2015	Twenty Sixteen 2016 Pharma Ltd		
	**CF	WO-2015109476-A1	07-30-2015	Shenzhen Kanger Technology Co Ltd		
	**CG	WO-2015120588-A1	08-20-2015	Kimree Hi Tech Inc		
	**CH	WO-2015120623-A1	08-20-2015	Kimree Hi Tech Inc		
	**CI	WO-2015123831-A1	08-27-2015	Kimree Hi Tech Inc		
	CJ	WO-2015143648-A1	10-01-2015	Shenzhen Kanger Technology Co Ltd		

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				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
				Examiner Name	Not Yet Assigned
Sheet	13	of	16	Attorney Docket Number	

	CK	WO-2015149330-A1	10-08-2015	Kimree Hi Tech Inc		
	CL	WO-2015149332-A1	10-08-2015	Kimree Hi Tech Inc		
	CM	WO-2015149406-A1	10-08-2015	Kimree Hi Tech Inc		
	CN	WO-2015154309-A1	10-15-2015	Shenzhen Kanger Technology Co Ltd		
	CO	WO-2015157891-A1	10-22-2015	Kimree Hi Tech Inc		
	CP	WO-2015157893-A1	10-22-2015	Kimree Hi Tech Inc		
	CQ	WO-2015157900-A1	10-22-2015	Kimree Hi Tech Inc		
	CR	WO-2015158548-A1	10-22-2015	Hauni Maschinenbau AG		
	CS	WO-2015161406-A1	10-29-2015	Kimree Hi Tech Inc		
	CT	WO-2015161553-A1	10-29-2015	Kimree Hi Tech Inc		
	CU	WO-2015165081-A1	11-05-2015	Kimree Hi Tech Inc		
	CV	WO-2015165086-A1	11-05-2015	Kimree Hi Tech Inc		
	CW	WO-2015165105-A1	11-05-2015	Kimree Hi Tech Inc		
	CX	WO-2015168912-A1	11-12-2015	Kimree Hi Tech Inc		
	CY	WO-2015176230-A1	11-26-2015	Kimree Hi Tech Inc		
	CZ	WO-2015176300-A1	11-26-2015	Kimree Hi Tech Inc		
	DA	WO-2015176580-A1	11-26-2015	Lin, Guangrong		
	DB	WO-2015180071-A1	12-03-2015	Kimree Hi Tech Inc		
	DC	WO-2015180088-A1	12-03-2015	Kimree Hi Tech Inc		
	DD	WO-2015184620-A1	12-10-2015	Kimree Hi Tech Inc		
	DE	WO-2015184747-A1	12-10-2015	Wang, Xiaoqiong		
	DF	WO-2015190810-A1	12-17-2015	Hwang, Il-young		
	DG	WO-2015192326-A1	12-23-2015	Kimree Hi Tech Inc		
	DH	WO-2015196332-A1	12-30-2015	Huizhou Kimree Technology Co Ltd		
	DI	WO-2016000130-A1	01-07-2016	Shenzhen Smoore Technology Ltd		
	DJ	WO-2016000136-A1	01-07-2016	Kimree Hi Tech Inc		
	DK	WO-2016000206-A1	01-07-2016	Huizhou Kimree Technology Co Ltd		
	DL	WO-2016000232-A1	01-07-2016	Liu, Qiuming		
	DM	WO-2016000233-A1	01-07-2016	Liu, Qiuming		
	DN	WO-2016015246-A1	02-04-2016	Huizhou Kimree Technology Co Ltd		
	DO	WO-2016019353-A1	02-04-2016	Mjar Holdings, LLC		
	DP	WO-2016023173-A1	02-18-2016	Liu, Shuigen		
	DQ	WO-2016023212-A1	02-18-2016	Huizhou Kimree Technology Co Ltd		

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				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
				Examiner Name	Not Yet Assigned
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	DR	WO-2016026104-A1	02-25-2016	Huizhou Kimree Technology Co Ltd		
	DS	WO-2016026105-A1	02-25-2016	Shenzhen Kanger Technology Co Ltd		
	DT	WO-2016026156-A1	02-25-2016	Huizhou Kimree Technology Co Ltd		
	DU	WO-2016029567-A1	03-03-2016	Shenzhen Bauway Technology Ltd		
	DV	WO-2016033721-A1	03-10-2016	Huizhou Kimree Technology Co Ltd		
	DW	WO-2016041114-A1	03-24-2016	Huizhou Kimree Technology Co., Ltd		
	DX	WO-2016041140-A1	03-24-2016	Huizhou Kimree Technology Co.,ltd		
	DY	WO-2016041141-A1	03-24-2016	Huizhou Kimree Technology Co Ltd		
	DZ	WO-2016041207-A1	03-24-2016	Huizhou Kimree Technology Co Ltd		
	EA	WO-2016041209-A1	03-24-2016	Huizhou Kimree Technology Co Ltd		
	EB	WO-2016045058-A1	03-31-2016	Huizhou Kimree Technology Co Ltd		
	EC	WO-2016049822-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	ED	WO-2016049823-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	EE	WO-2016049855-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	EF	WO-2016054793-A1	04-14-2016	Huizhou Kimree Technology Co Ltd		
	EG	WO-2016058139-A1	04-21-2016	Huizhou Kimree Technology Co Ltd		
	EH	WO-2016059000-A1	04-21-2016	Fontem Holdings 2 BV		
	EI	WO-2016061730-A1	04-28-2016	Shenzhen Smoore Technology Ltd		
	EJ	WO-2016061822-A1	04-28-2016	Huizhou Kimree Technology Co Ltd		
	EK	WO-2016062168-A1	04-28-2016	Lin, Guangrong		
	EL	WO-2016065521-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		

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Substitute for form 1449/PTO				Complete if Known	
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				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
(Use as many sheets as necessary)				Examiner Name	Not Yet Assigned
Sheet	15	of	16	Attorney Docket Number	

	EM	WO-2016065532-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	EN	WO-2016065533-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	EO	WO-2016065596-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	EP	WO-2016065598-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	EQ	WO-2016065599-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	ER	WO-2016070553-A1	05-12-2016	Shenzhen Buddy Technology Dev Co Ltd		

Examiner Signature		Date Considered	

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	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[2]
	**A	"New Tank E-Cigarette:innokin 510T." From China Manufacturer, Manufactory, Factory and Supplier on ECVV.com, November 15, 2011, www.ecvv.com/product/3118191.html	
	**B	chinabuye. "Innokin ITaste VV Tank Starter Kit Electronic Cigarette with Clearomizer." YouTube, YouTube, 23 July 2013, www.youtube.com/watch?v=mz414d8MU20.	
	**C	Cloud pen vaporizer unboxing review by vaporizer blog // VaporizerBlog.com, https://www.youtube.com/watch?v=ixHMkXoWKNg	
	**D	Glory Vapes. "Glory Vapes TV: Kanger S1 Cubica Series Starter Kit Unboxing." YouTube, YouTube, 8 Aug. 2013, www.youtube.com/watch?v=NQjvJ6YhdbA.	
	**E	Joye eGo-Tank System XXL 1000mAh Starter Kit, https://www.myvaporstore.com/eGo-Tank-System-XXL-1000mAh-Starter-Kit-p/ego-t-xxlkit.htm	
	**F	Uptoyou Frometne. "Elips Ego SOLE Electronic Cigarette Kit Patent Elipse Flat Upgrade F6 Section with Atomizer CE4." YouTube, YouTube, 12 Sept. 2013, www.youtube.com/watch?v=cnPcqDzFm0Q.	
	**G	Vaporizers Reviewed. "AtmosRX Optimus 510 Vaporizer Review." YouTube, YouTube, 10 Oct. 2013, www.youtube.com/watch?v=wsyQncG8FB8.	

Submission 2 of 2

Used in Lieu of PTO/SB/08A/B
(Based on PTO 11-07 version)

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
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				Art Unit	1747
				Examiner Name	Not Yet Assigned
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	**H	Vaporizers Reviewed. "MicroG Pen Vaporizer Review." YouTube, YouTube, 6 Nov. 2013, www.youtube.com/watch?v=pLhtL8vosrs	

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

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

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(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国 际 局

(43) 国际公布日
2016 年 5 月 12 日 (12.05.2016)

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201520040873.5 2015 年 1 月 21 日 (21.01 .2015) CN

(71) 申请人 :深圳市博迪科技开发有限公司 (SHENZHEN BUDDY TECHNOLOGY DEVELOPMENT CO., LTD) [CN/CN]; 中国广东省深圳市宝安区福永街道下十围路 1 号博迪创新科技园 C 栋、D 栋第二层、第四层 Guangdong 518103 (CN)。

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(81) 指定国 (除另有指明，要求每一种可提供的国家保护):AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, ML, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW。

(84) 指定国 (除另有指明，要求每一种可提供的地区保护):ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH,

[见续页]

(54) Title: BAKING TYPE ELECTRONIC CIGARETTE WITH FLAVOR ADJUSTING FUNCTION

(54) 发明名称 :具有调味功能的烘烤式电子烟

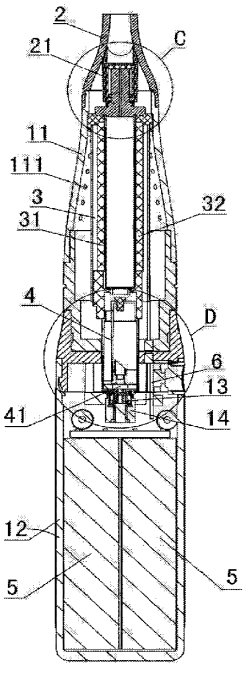


Fig. 8 / Fig. S

(57) Abstract: A baking type electronic cigarette with a flavor adjusting function, comprising an outer casing (1) provided with a cigarette nozzle (2). A baking unit (3), an oil cup (4), a battery (5) and a control unit (6) are sequentially arranged in the outer casing (1). The baking unit (3) comprises an electric heating baking cup (31), the two ends of the electric heating baking cup (31) are provided with openings. The opening end of the oil cup (4) is provided with an atomizer (41). One end of the electric heating baking cup (31) is communicated with the cigarette nozzle (2), and the other end is communicated with the atomizer (41). The outer wall of the electric heating baking cup (31) is provided with an electric heating sheet. The electric heating sheet of the electric heating baking cup (31), an electric heating wire of the atomizer (41) and the battery (5) are respectively connected with the control unit (6). The uniformity and shortage of smoke can be balanced when the ratio of smoke amount is not uniform or not enough during baking, different cigarette flavors can be adjusted according to the taste of a smoker, and the freedom of selection can be provided for the smoker, thus the optimum taste is achieved.

(57) 摘要：

[见续页]

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NJOY Exhibit 1007.137

CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

本国际公布：

- 包括国际检索报告(条约第21条(3))。

一种具有调味功能的烘烤式电子烟，包括带有烟嘴(2)的外壳(1)，所述外壳(1)内依次布置有烘烤单元(3)、油杯(4)、电池(5)和控制单元(6)，烘烤单元(3)包括两端带有开口的电热烘烤杯(31)，油杯(4)的开口端设有雾化器(41)，电热烘烤杯(31)一端与烟嘴(2)连通、另一端与雾化器(41)连通，电热烘烤杯(31)的外壁上设有电发热片，电热烘烤杯(31)的电发热片、雾化器(41)的电热丝、电池(5)分别与控制单元(6)相连。能够在烘烤的烟雾量比例不均匀或不足时平衡烟雾的均匀和不足，能够根据烟民的口感调试不同香烟口味，提供给烟民可选择的空间，从而达到最佳口感。

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具有调味功能的烘烤式电子烟

【技术领域】

本发明涉及电子烟，具体涉及一种具有调味功能的烘烤式电子烟。

【背景技术】

电子烟目前成为常见的替代香烟的消费产品，电子烟所使用的常见有液体类雾化物（烟油）和固体类雾化物（香烟、烟叶或烟草弹），其中固体类型雾化物（香烟、烟叶或烟草弹）通过烘烤形成烟雾，口味真实的优点目前开始在市场上得到推广和应用，但是市场上现有的烘烤出的烟雾口味单一，而且高温容易烫口、焦油的侵害没有得到理想的改良，对人体造成较大危害性，此外充电时需要使用拔插USB也容易导致USB接口接触不良。

【发明内容】

本发明要解决的技术问题是：针对现有技术的上述技术问题，提供一种作为基础技术方案的具有调味功能的烘烤式电子烟，该烘烤式电子烟能够在烘烤的烟雾量比例不均匀或不足时平衡烟雾的均匀和不足，能够根据烟民的口感调试不同香烟口味，提供给烟民可选择的空间，从而达到最佳口感；在上述基础技术方案的基础上，本发明还提供一种改进后的具有调味功能的烘烤式电子烟，该烘烤式电子烟能够实现口味调节，烟雾温度舒适、焦油的侵害得到理想的改良、对人体危害性小，充电方便。

为了解决上述技术问题，本发明采用的技术方案为：

一种具有调味功能的烘烤式电子烟，包括带有烟嘴的外壳，所述外壳内依次布置有烘烤单元、油杯、电池和控制单元，所述烘烤单元包括两端带有开口的电热烘烤杯，所述油杯的开口端设有雾化器，所述电热烘烤杯一端与烟嘴连通、另一端与雾化器连通，所述电热烘烤杯的外壁上设有电发热片，所述电热烘烤杯的电发热片、雾化器的电热丝、电池分别与控制单元相连。

优选地，所述烟嘴、电热烘烤杯之间设有具有降温、烟雾回流、脱焦油功能的金属降温过滤器。

优选地，所述金属降温过滤器包括螺纹连接的金属体和回流罩，所述金属体上设有降温孔，所述金属体和回流罩之间形成回流腔，所述回流罩的侧壁上设有回流孔，所述降温孔、回流孔分别与回流腔连通，所述烟嘴依次通过回流孔、回流腔、降温孔与电热烘烤杯的内腔连通，所述回流腔的内壁上涂覆有铁氟龙涂层。

优选地，所述金属降温过滤器和电热烘烤杯之间设有第一定位硅胶套。

优选地，所述电热烘烤杯和外壳之间设有双层真空玻璃管。

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优选地，所述油杯的开口端设有带有安装孔的封头，所述油杯的一侧设有与烟嘴连通的气道，所述雾化器固定于封头中，所述雾化器的燃烧室通过安装孔与外壳外部的空气连通、且通过气道与电热烘烤杯的内腔连通。

优选地，所述油杯和电热烘烤杯之间设有连接套，所述油杯插设固定于连接套中。

优选地，所述外壳包括上壳和下壳，所述烟嘴设于上壳的一端，且所述上壳的封头的外侧设有第一电连接组件，所述下壳的端部设有用于与第一电连接组件配合实现电连接的第二电连接组件，所述烘烤单元和油杯分别布置于上壳中，所述电池和控制单元分别布置于下壳中。

优选地，所述上壳的端部设有连接外螺纹杆，所述第一电连接组件包括通过第一绝缘硅胶套间隙布置的第一正电极和第一负电极，所述第一正电极上设有进气孔，所述第一正电极和第一负电极分别与电热烘烤杯的电发热片、雾化器的电热丝电连接导通；所述下壳上设有连接内螺套，所述连接内螺套内设有固定座，所述第二电连接组件设于固定座上，所述第二电连接组件包括通过第二绝缘硅胶套间隙布置的第二正电极和第二负电极，所述第二正电极和第二负电极分别与控制单元相连；所述连接外螺纹杆、连接内螺套之间螺纹配合连接、且使得第一正电极、第二正电极接触导通，第一负电极、第二负电极之间接触导通。

优选地，所述下壳的端部设有带有 LED 灯以及充电接口的灯盖，所述控制单元包括按钮和液晶显示屏和装设于安装支架中的主控电路板，所述安装支架插设于下壳内且位于灯盖的内侧，所述电热烘烤杯的电发热片、雾化器的电热丝、电池、充电接口、按钮、液晶显示屏、灯盖中的 LED 灯分别与主控电路板电连接，所述按钮、液晶显示屏设于下壳上。

以前述具有调味功能的烘烤式电子烟作为基础技术方案，本发明还进一步提供一种改进的具有调味功能的烘烤式电子烟，其技术方案如下：

一种具有调味功能的烘烤式电子烟，包括带有烟嘴的外壳，所述外壳内依次布置有烘烤单元、油杯、电池和控制单元，所述烘烤单元包括两端带有开口的电热烘烤杯，所述油杯的开口端设有雾化器，所述电热烘烤杯一端与烟嘴连通、另一端与雾化器连通，所述电热烘烤杯上设有电发热元件，所述电热烘烤杯的电发热元件、雾化器的电热元件、电池分别与控制单元相连，所述外壳的内腔中还设有无线充电感应线圈，所述控制单元还包括无线感应充电电路，所述无线充电感应线圈和无线感应充电电路相互相连。

优选地，所述烟嘴、电热烘烤杯之间设有具有降温、烟雾回流、脱焦油功能的金属降温过滤器，所述金属降温过滤器的气流通道中设有滤网。

优选地，所述金属降温过滤器包括螺纹连接的金属体和回流罩，所述金属体上设有降

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温孔，所述金属体和回流罩之间形成回流腔，所述回流罩的侧壁上设有回流孔，所述降温孔、回流孔分别与回流腔连通，所述烟嘴依次通过回流孔、回流腔、降温孔与电热烘烤杯的内腔连通，所述降温孔、回流腔的内壁上均涂覆有铁氟龙涂层，所述滤网设于回流腔且紧贴降温孔布置，所述降温孔通过滤网与回流腔连通。

优选地，所述金属降温过滤器和电热烘烤杯之间设有第一定位硅胶套，所述电热烘烤杯的端部伸出第一定位硅胶套形成清理烟渣夹持部，所述电热烘烤杯和外壳之间设有隔热件，所述隔热件为气凝胶、双层真空玻璃管、气凝胶毡中的一种。

优选地，所述油杯的开口端设有带有安装孔的封头，所述油杯的一侧设有与烟嘴连通的气道，所述雾化器固定于封头中，所述雾化器的燃烧室通过安装孔与外壳外部的空气连通、且通过气道与电热烘烤杯的内腔连通，所述油杯和电热烘烤杯之间设有连接套，所述油杯插设固定于连接套中，所述连接套固定于外壳内；所述油杯靠烟嘴一端的端盖上设有加油孔，所述加油孔中设有加油硅胶塞。

优选地，所述外壳包括上壳和下壳，所述烟嘴设于上壳的一端，且所述上壳的封头的外侧设有第一电连接组件，所述下壳的端部设有用于与第一电连接组件配合实现电连接的第二电连接组件，所述烘烤单元和油杯分别布置于上壳中，所述电池和控制单元分别布置于下壳中；所述上壳的表面设有多条环形防滑棱。

优选地，所述上壳的端部设有第一连接件，所述第一电连接组件包括通过第一绝缘硅胶套间隙布置的第一正电极和第一负电极，所述第一正电极上设有进气孔，所述第一正电极和第一负电极分别与电热烘烤杯的电发热片、雾化器的电热元件电连接导通；所述下壳上设有第二连接件，所述第二电连接组件插设于第二连接件中，所述第二电连接组件包括通过第二绝缘硅胶套间隙布置的第二正电极和第二负电极，所述第二正电极和第二负电极分别与控制单元相连；所述第一连接件、第二连接件之间插接或者螺纹连接、且使得第一正电极、第二正电极接触导通，第一负电极、第二负电极之间接触导通。

优选地，所述下壳的端部设有充电接口，所述控制单元包括按钮和液晶显示屏和通过安装支架装设于下壳中的主控电路板，所述按钮和液晶显示屏均设于主控电路板上，所述电热烘烤杯的电发热元件、雾化器的电热元件、电池、充电接口分别与主控电路板电连接，所述按钮、液晶显示屏设于下壳上，所述上壳和下壳为金属管、碳纤管或者防爆玻璃管中的一种，且所述上壳上开设有均匀布置的多个散热孔；所述液晶显示屏为 0LED 显示屏。

优选地，所述电热烘烤杯的电发热元件、雾化器的电热元件的表面均涂覆有铁氟龙涂层。

优选地，所述雾化器的电热元件为金属发热丝、陶瓷发热片、PTC 发热片、PTC 发热

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针、PTC 发热棒中的一种；所述电发热元件为环绕布置于烘烤杯的侧壁上的 FPCB 发热片，或者所述电发热元件为置于烘烤杯内的陶瓷发热片、或 PTC 发热片、或 PTC 发热针、或 PTC 发热棒。

本发明作为基础技术方案具有调味功能的烘烤式电子烟具有下述优点：

1、本发明的外壳内依次布置有烘烤单元、油杯、电池和控制单元，烘烤单元包括两端带有开口的电热烘烤杯，油杯的开口端设有雾化器，电热烘烤杯一端与烟嘴连通、另一端与雾化器连通，电热烘烤杯、雾化器的电热丝、电池分别与控制单元相连，因此针对烘烤单元对固体类雾化物 (香烟或烟叶) 进行烘烤时烟雾量比例的不均匀或不足，结合雾化器对油杯中烟油的雾化，使得烟油的雾化物进入电热烘烤杯，和电热烘烤杯中烘烤形成的雾化物混合口味后被吸烟者吸入，从而能够有效平衡固体类雾化物 (香烟或烟叶) 口味的雾化烟雾口味，解决单独使用固体类雾化物 (香烟或烟叶) 时所存在的雾化烟雾量比例的不均匀或不足的技术问题。

2、本发明在烘烤单元对固体类雾化物 (香烟或烟叶) 进行烘烤时，结合雾化器对油杯中烟油的雾化，使得烟油的雾化物进入电热烘烤杯，和电热烘烤杯中烘烤形成的雾化物混合，后被吸烟者吸入，在烘烤单元对固体类雾化物进行雾化的基础上，结合油杯对烟油的雾化，更可以根据烟民的口感调试不同香烟口味，提供给烟民可选择的空间，从而达到最佳口感。

3、本发明的烘烤单元包括两端带有开口的电热烘烤杯，利用电子发热片升温，能够瞬间 (0一30 秒) 对电热烘烤杯内的固体类雾化物 (香烟或烟叶) 进行烘烤，烘烤杯的温度将达到 190一220 度，使其在烘烤不燃烧，无焦油、低尼古丁，能够降低尼古丁去除焦油的状态下逼出香烟的烟雾，让吸烟者更健康地吸烟，使香烟或烟叶在保持原味不变的情况下，让吸烟者降低尼古丁的危害，完全脱离焦油的侵害，以科学理念实现健康吸烟。

4、本发明进一步在烟嘴、电热烘烤杯之间设有具有降温、烟雾回流、脱焦油功能的金属降温过滤器，电热烘烤杯的香烟或烟叶经过高温烘烤出的烟雾由于热量较大、容易烫口，本发明通过金属降温过滤器对高温烘烤出的烟雾进行过滤处理，一方面通过金属降温过滤器的热传导能够实现对烟雾的降温，从而让吸烟者轻松自由吸用，不会烫口；另一方面由于金属降温过滤器的过滤，还能够实现烟雾回流和脱焦油的过滤效果，能够避开焦油的侵害，降低尼古丁的危害。

5、本发明进一步在电热烘烤杯和外壳之间设有双层真空玻璃管；相对于目前经常使用的隔热棉/耐火棉，双层真空玻璃管的隔热效果更好，能够使外壳的外表触摸温度达到 45 度以下，确保外壳在使用状态下不烫手，处于人体可接触的温度范围内。

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本发明在基础技术方案上进行改进的具有调味功能的烘烤式电子烟具有下述优点：

1、本发明在烘烤单元对固体类雾化物（香烟或烟叶）进行烘烤时烟雾量比例的不均匀或不足时，结合雾化器对油杯中烟油的雾化，使得烟油的雾化物进入电热烘烤杯，和电热烘烤杯中烘烤形成的雾化物混合后被吸烟者吸入，从而能够有效平衡实现针对固体类雾化物（香烟或烟叶）雾化烟雾的均匀和不足，解决单独使用固体类雾化物（香烟或烟叶）时所存在的雾化时烟雾量比例的不均匀或不足的技术问题，通过雾化器对烟油的雾化来实现对烘烤杯中的固体类雾化物（香烟、烟叶或烟草弹）进行调味，实现烘烤式电子烟的口味调节，从而能够解决目前固体类雾化物（香烟、烟叶或烟草弹）的口味单一的缺陷，能够根据需要调试出更多混合口味的电子烟口味。

2、本发明电热烘烤杯一端与烟嘴连通、另一端与雾化器连通，即雾化器位于电热烘烤杯的前端，雾化器对油杯中烟油雾化形成的雾化物会进入电热烘烤杯中，能够和电热烘烤杯中烘烤形成的雾化物充分地混合，而且还有利于增强烘烤单元对固体类雾化物（香烟或烟叶）进行烘烤的雾化效果。

3、本发明外壳的内腔中还设有无线充电感应线圈，所述控制单元还包括无线感应充电电路，所述无线充电感应线圈和无线感应充电电路相互相连，通过无线充电感应线圈和无线感应充电电路，能够利用现有的无线充电设备（例如手机的无线充电器）为本发明的烘烤式电子烟斗来进行充电，充电方便快捷。

4、本发明进一步在烟嘴、电热烘烤杯之间设有具有降温、烟雾回流、脱焦油功能的金属降温过滤器，金属降温过滤器具有降温、过滤、烟雾回流、脱焦油功能，通过金属降温过滤器能够实现对烘烤产生的高温烟雾进行降温、过滤、烟雾回流、脱焦油，因此具有烟雾温度舒适、焦油的侵害得到理想的改良、对人体危害性小的优点；而且进一步在金属降温过滤器的气流通道中设有滤网，因此能够进一步增强金属降温过滤器的降温、过滤、烟雾回流、脱焦油功能。

5、本发明雾化器的雾化发热元件的表面进一步涂覆有铁氟龙涂层，铁氟龙涂层具有耐高温的特性，不会由于雾化发热元件的发热而损坏，而且能够将烟油和雾化发热元件之间有效阻隔，有效防止雾化发热元件和烟油之间高温产生灼烧异味，口感更加纯正亲和，更加环保和健康，能够解决现有雾化器的雾化发热元件对烟油高温加热产生灼烧异味的问题。

【附图说明】

图1为本发明实施例一的立体结构示意图。

图2为本发明实施例一的俯视结构示意图。

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图 3 为图 2 的 A-A 剖视结构示意图。

图 4 为图 3 中上壳和下壳连接部位的局部放大示意图。

图 5 为本发明实施例一工作时的气体流向示意图。

图 6 为本发明实施例二的立体结构示意图。

图 7 为本发明实施例二的侧视结构示意图。

图 8 为图 7 的 B-B 剖视结构示意图。

图 9 为图 8 中 C 区域的局部放大结构示意图。

图 10 为图 8 中 D 区域的局部放大结构示意图。

图 11 为本发明实施例三的剖视结构示意图。

图 12 为本发明实施例四的立体结构示意图。

图例说明：1、外壳；11、上壳；111、散热孔；112、环形防滑棱；12、下壳；121、灯盖；122、充电接口；13、第一电连接组件；131、第一正电极；132、第一负电极；133、第一绝缘硅胶套；134、进气孔；14、第二电连接组件；141、第二正电极；142、第二负电极；143、第二绝缘硅胶套；15、第一连接件；16、第二连接件；161、固定座；2、烟嘴；21、金属降温过滤器；211、金属体；212、降温孔；213、回流罩；214、回流腔；215、回流孔；216、第一定位硅胶套；22、滤网；3、烘烤单元；30、电发热元件；31、电热烘烤杯；311、清理烟渣夹持部；32、隔热件；4、油杯；41、雾化器；42、安装孔；43、封头；44、气道；45、连接套；46、端盖；47、加油孔；48、加油硅胶塞；5、电池；6、控制单元；61、安装支架；62、按钮；63、液晶显示屏。

【具体实施方式】

实施例一：

如图 1、图 2 和图 3 所示，本实施例具有调味功能的烘烤式电子烟包括带有烟嘴 2 的外壳 1，外壳 1 内依次布置有烘烤单元 3、油杯 4、电池 5 和控制单元 6，烘烤单元 3 包括两端带有开口的电热烘烤杯 31，油杯 4 的开口端设有雾化器 41，电热烘烤杯 31 一端与烟嘴 2 连通、另一端与雾化器 41 连通，电热烘烤杯 31 的外壁上设有电发热元件 30（电发热片），电热烘烤杯 31 的电发热元件 30、雾化器 41 的电热元件、电池 5 分别与控制单元 6 相连，外壳 1 的内腔中还设有无线充电感应线圈，控制单元 6 还包括无线感应充电电路，无线充电感应线圈和无线感应充电电路相互相连。本实施例具有调味功能的烘烤式电子烟具有下述优点：(1) 在烘烤单元 3 对固体类雾化物 (香烟或烟叶) 进行烘烤时烟雾量比例的不均匀或不足时，结合雾化器 41 对油杯 4 中烟油的雾化，使得烟油的雾化物进入电热烘烤杯 31，和电热烘烤杯 31 中烘烤形成的雾化物混合，后被吸烟者吸入，从而能够有效

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平衡实现针对固体类雾化物（香烟或烟叶）雾化烟雾的均匀和不足，解决单独使用固体类雾化物（香烟或烟叶）时所存在的雾化时烟雾量比例的不均匀或不足的技术问题；(2) 由于电热烘烤杯 31 一端与烟嘴 2 连通、另一端与雾化器 41 连通，即雾化器 41 位于电热烘烤杯 31 的前端，雾化器 41 对油杯 4 中烟油雾化形成的雾化物会进入电热烘烤杯 31 中，能够和电热烘烤杯 31 中烘烤形成的雾化物充分地混合，而且还有利于增强烘烤单元 3 对固体类雾化物（香烟或烟叶）进行烘烤的雾化效果；(3) 通过无线充电感应线圈和无线感应充电电路，能够利用现有的无线充电设备（例如手机的无线充电器）为本发明的烘烤式电子烟斗来进行充电，充电方便快捷。目前常用的无线充电技术主要有 Power Matters Alliance (PMA) 标准、Qi 标准和 Alliance for Wireless Power (A4WP) 标准三种；毫无疑问，本实施例的无线感应充电电路可以根据需要采用其中任意一种标准，或者也可根据需要采用基于其他无线充电技术标准的无线感应充电电路，其同样也可以实现对本实施例的无线充电，在此不再赘述。

如图 3 所示，烟嘴 2、电热烘烤杯 31 之间设有具有降温、烟雾回流、脱焦油功能的金属降温过滤器 21。电热烘烤杯 31 的香烟或烟叶经过高温烘烤出的烟雾由于热量较大、容易烫口，本实施例通过金属降温过滤器 21 对高温烘烤出的烟雾进行降温过滤处理，对高温烘烤出的烟雾进行过滤处理，一方面通过金属降温过滤器 21 的热传导能够实现对烟雾的降温，从而让吸烟者轻松自由吸用，不会烫口；另一方面由于金属降温过滤器 21 的过滤，还能够实现烟雾回流和脱焦油的过滤效果，能够避开焦油的侵害，降低尼古丁的危害。

如图 3 所示，金属降温过滤器 21 包括螺纹连接的金属体 211 和回流罩 213，金属体 211 上设有降温孔 212，金属体 211 和回流罩 213 之间形成回流腔 214，回流罩 213 的侧壁上设有回流孔 215，降温孔 212、回流孔 215 分别与回流腔 214 连通，烟嘴 2 依次通过回流孔 215、回流腔 214、降温孔 212 与电热烘烤杯 31 的内腔连通，回流腔 214 的内壁上涂覆有铁氟龙（聚四氟乙烯）涂层。由于金属体 211 采用金属制成，具有良好的导热性能，从而降温孔 212 能够对高温烘烤出的烟雾进行降温处理；而铁氟龙具有抗酸抗碱、抗各种有机溶剂的特点，几乎不溶于所有的溶剂，因此本实施例利用铁氟龙抗各种有机溶剂的特点，将铁氟龙涂覆在回流腔 214 的内壁上，从而能够有效阻止焦油通过，能够避开焦油的侵害，降低尼古丁的危害；同时，金属体 211 和回流罩 213 之间采用螺纹连接，能够方便拆卸分离回流罩 213，以便对回流腔 214 内回收的焦油进行清理。

如图 3 所示，金属降温过滤器 21 和电热烘烤杯 31 之间设有第一定位硅胶套 216，电热烘烤杯 31 的端部伸出第一定位硅胶套 216 形成清理烟渣夹持部 311。第一定位硅胶套 216 一方面可以实现金属降温过滤器 21 和电热烘烤杯 31 的定位和固定，另一方面还能够

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实现金属降温过滤器 21 和电热烘烤杯 31 之间的密封；通过镊子、钳子等工具夹持清理烟渣夹持部 311，能够方便地将电热烘烤杯 31 取出一段或者全部，以便清理电热烘烤杯 31 内的烟渣。

如图 3 所示，电热烘烤杯 31 和外壳 1 之间设有隔热件 32。相对于目前经常使用的隔热棉/耐火棉，隔热件 32 采用双层真空玻璃管，双层真空玻璃管的隔热效果更好，能够使外壳 1 的外表触摸温度达到 45 度以下，确保外壳 1 在使用状态下不烫手，处于人体可接触的温度范围内。

如图 3 所示，油杯 4 的开口端设有带有安装孔 42 的封头 43，油杯 4 的一侧设有与烟嘴 2 连通的气道 44，雾化器 41 固定于封头 43 中，雾化器 41 的燃烧室通过安装孔 42 与外壳 1 外部的空气连通、且通过气道 44 与电热烘烤杯 31 的内腔连通。

如图 3 所示，油杯 4 和电热烘烤杯 31 之间设有连接套 45，油杯 4 插设固定于连接套 45 中，连接套 45 一方面能够对油杯 4 起到固定的作用，另一方面还能够对油杯 4 和电热烘烤杯 31 之间起到隔热作用，防止油杯 4 以及油杯 4 中烟油被电热烘烤杯 31 加热。

如图 1 和图 3 所示，外壳 1 包括上壳 11 和下壳 12，烟嘴 2 设于上壳 11 的一端，且上壳 11 的封头 43 的外侧设有第一电连接组件 13，下壳 12 的端部设有用于与第一电连接组件 13 配合实现电连接的第二电连接组件 14，烘烤单元 3 和油杯 4 分别布置于上壳 11 中，电池 5 和控制单元 6 分别布置于下壳 12 中。外壳 1 采用上壳 11 和下壳 12 的分段式结构，且基于第一电连接组件 13、第二电连接组件 14 配合实现电连接，充电及使用方便，检修和维护更快捷。

如图 3 所示，下壳 12 的端部设有带有 LED 灯以及充电接口 122 的灯盖 121，控制单元 6 包括按钮 62 和液晶显示屏 63 和装设于安装支架 61 中的主控电路板，安装支架 61 插设于下壳 12 内且位于灯盖 121 的内侧，电热烘烤杯 31 的电发热片、雾化器 41 的电热元件、电池 5、充电接口 122、按钮 62、液晶显示屏 63、灯盖 121 中的 LED 灯分别与主控电路板电连接，按钮 62、液晶显示屏 63 设于下壳 12 上。

如图 4 所示，上壳 11 的端部设有第一连接件 15，第一电连接组件 13 包括通过第一绝缘硅胶套 133 间隙布置的第一正电极 131 和第一负电极 132，第一正电极 131 上设有进气孔 134，第一正电极 131 和第一负电极 132 分别与电热烘烤杯 31 的电发热片、雾化器 41 的电热元件电连接导通；下壳 12 上设有第二连接件 16，第二连接件 16 内设有固定座 161，第二电连接组件 14 设于固定座 161 上，第二电连接组件 14 包括通过第二绝缘硅胶套 143 间隙布置的第二正电极 141 和第二负电极 142，第二正电极 141 和第二负电极 142 分别与控制单元 6 相连；第一连接件 15、第二连接件 16 之间螺纹连接、且使得第一正电极 131、

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第二正电极 141 接触导通，第一负电极 132、第二负电极 142 之间接触导通。第一电连接组件 13、第二电连接组件 14 采用的螺纹连接结构牢固，电连接稳定可靠，使用简单方便。本实施中，第一连接件 15 为连接外螺纹杆，第二连接件 16 为连接内螺纹套，第一连接件 15、第二连接件 16 之间具体为采用螺纹连接。

本实施例具有调味功能的烘烤式电子烟的工作过程如下：当吸烟者需要吸烟时，按下按钮 62 则主控电路板控制雾化器 41 的电热元件以及电热烘烤杯 31 通电，对油杯 4 中的烟油进行加热雾化为调味烟雾，同时电热烘烤杯 31 的温度迅速达到 190～220 度，对电热烘烤杯 31 内的固体类雾化物 (香烟或烟叶) 进行烘烤。如图 5 所示，当用户吸烟时，则外部的空气会从第一连接件 15、第二连接件 16 之间螺纹间隙经过进气孔 134 进入上壳 11 内，然后经封头 43 的安装孔 42 进入雾化器 41 中，将烟油雾化得到的调味烟雾从油杯 4 的一侧的气道 44 进入电热烘烤杯 31 的内腔，在电热烘烤杯 31 内完成调味烟雾、固体类雾化物 (香烟或烟叶) 的合成混合得到调味后的烟雾，调味后的烟雾经过金属降温过滤器 21 的进行降温、烟雾回流、脱焦油处理，然后通过烟嘴 2 让吸烟者吸用。

实施例二：

如图 6、图 7、图 8、图 9 和图 10 所示，本实施例在外观上和实施例一有较大的差异，但是两个实施例的基本结构相同。本实施例和实施例一之间的内部结构不同点如下：

1) 实施例一是仿真传统香烟形式的电子烟，其包含一个电池 5 以保证其便携性；而本实施例包含两个电池 5 以便获得较长的电池续航时间。

2) 如图 8 和图 9 所示，本实施例在实施例一的金属降温过滤器 21 基础上，在金属降温过滤器 21 的气流通道中设有滤网 22。实施例一中的金属降温过滤器 21 具有降温、过滤、烟雾回流、脱焦油功能，通过金属降温过滤器 21 能够实现对烘烤产生的高温烟雾进行降温、过滤、烟雾回流、脱焦油，因此具有烟雾温度舒适、焦油的侵害得到理想的改良、对人体危害性小的优点。由于金属降温过滤器 21 的结构限制，使得气流通道较短，因此对烘烤产生的高温烟雾发生作用的时间较短，而本实施例中通过在金属降温过滤器 21 的气流通道中设有滤网 22，因此能够增加烘烤产生的高温烟雾在金属降温过滤器 21 中的停留时间，从而能够进一步增强金属降温过滤器 21 的降温、过滤、烟雾回流、脱焦油功能。本实施例中，滤网 22 设于回流腔 214 且紧贴降温孔 212 布置，降温孔 212 通过滤网 22 与回流腔 214 连通，因此确保烘烤产生的高温烟雾经过滤网 22 以增强金属降温过滤器 21 的降温、过滤、烟雾回流、脱焦油功能，滤网 22 可以根据需要采用金属滤网或者其他耐高温滤材。

3) 本实施例在实施例一的回流腔 214 的内壁上均涂覆有铁氟龙涂层的基础上，进一

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步在降温孔 212 的内壁上也涂覆有铁氟龙涂层，一方面能够防止烘烤产生的高温烟雾和金属体 211 高温产生灼烧异味，口感更加纯正亲和，更加环保和健康，能够解决现有雾化器 41 的雾化发热元件对烟油高温加热产生灼烧异味的问题；另一方面，降温孔 212 涂覆的铁氟龙涂层同样也能够阻止焦油通过，能够避开焦油的侵害，降低尼古丁的危害。

4）如图 8 和图 9 所示，本实施例与实施例一中的隔热件 32 为双层真空玻璃管不同，本实施例中隔热件 32 为气凝胶，此外隔热件 32 也可以选用气凝胶毡，气凝胶毡和气凝胶相比双层真空玻璃管而言，更加轻便，不易碎裂，安全可靠性更高。

5）如图 10 所示，本实施例在实施例一的油杯 4 的基础上，增加了油杯 4 的加油功能：油杯 4 靠烟嘴 2 一端的端盖 46 上设有加油孔 47，加油孔 47 中设有加油硅胶塞 48。

6）如图 10 所示，本实施例针对实施例一中第一连接件 15、第二连接件 16 之间螺纹连接使用不够快捷的缺点，将第一连接件 15、第二连接件 16 之间改为插接结构，第一连接件 15 插设于第二连接件 16 中，同样能够实现第一正电极 131、第二正电极 141 接触导通，第一负电极 132、第二负电极 142 之间接触导通，而且使用更加方便快捷。

7）本实施例中主控电路板和实施例一的安装结构略有不同：下壳 12 的端部设有充电接口 122，控制单元 6 包括按钮 62 和液晶显示屏 63 和通过安装支架 61 装设于下壳 12 中的主控电路板，按钮 62 和液晶显示屏 63 均设于主控电路板上，电热烘烤杯 31 的电发热元件 30、雾化器 41 的电热元件、电池 5、充电接口 122 分别与主控电路板电连接，按钮 62、液晶显示屏 63 设于下壳 12 上。上述结构，使得控制单元 6 的结构更加紧凑。此外，本实施例中液晶显示屏 63 为 0LED 显示屏，0LED 显示屏厚度小、重量轻、成本低、能耗低，而且能够弯曲，因此特别适合于结构紧凑的电子烟产品，减轻电子烟的重量、降低电子烟的成本，延长电子烟的电池续航时间，而且还能够贴合本实施例电子烟的圆弧状的表面结构，从而使得本实施例的电子烟的表面更加美观协调。

8）本实施例中，上壳 11 和下壳 12 为金属管 (铜、铝、不锈钢、铝合金等金属管或者金属合金管)。此外，上壳 11 和下壳 12 还可以根据需要选用碳纤管或者防爆玻璃管。此外，上壳 11 和下壳 12 上还可以进一步增加复合材料表层，例如在不锈钢的表面增加碳纤维表层等。

9）如图 8 所示，本实施例中，上壳 11 上开设有均匀布置的多个散热孔 111，能够进一步增强上壳 11 的散热功能，确保电热烘烤杯 31 的电发热元件 30、雾化器 41 的电热元件的工作不会导致上壳 11 过热，手感更加舒适。

10) 与实施例一电发热元件 30 为电发热片不同，本实施例中，电发热元件 30 为 FPCB 发热片，FPCB 发热片环绕布置于电热烘烤杯 31 的侧壁上。FPCB 发热片为柔性电路板 FPCB

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上集成的多个发热片结构，基于柔性电路板 FPCB 的柔性结构，因此 FPCB 发热片能够环绕布置于电热烘烤杯 31 的侧壁上，从而形成对电热烘烤杯 31 的完全的包裹结构，加热性能更好，满足电发热元件 30 的发热效率要求。

需要说明的是，本实施例中雾化器 41 的电热元件和实施例一样均为传统的金属发热丝 (钨合金发热丝)，此外也可以根据需要采用陶瓷发热片、PTC 发热片、PTC 发热针、PTC 发热棒中的一种来替代。PTC 发热片、PTC 发热针、PTC 发热棒均为常见的 PTC 发热体，其中 PTC 指 Polymeric Positive Temperature Coefficient (正温度系数)，一般而言 PTC 发热体 (也叫 PTC 加热器) 按照材料特性可分类为高分子聚合物正温度系数器件和陶瓷正温度系数器件两种，PTC 发热片、PTC 发热针、PTC 发热棒均可以根据需要采用高分子聚合物正温度系数器件或者陶瓷正温度系数器件。PTC 发热体具有下述优点：(1) PTC 发热体具有自动恒温的特点，电压的变化对 PTC 发热体的表面温度影响比较小，因此不需要额外的温度控制，能够防止温度过高产生焦油等有害物质，温度过低而导致烟雾雾化量不足的问题；(2) PTC 发热体的使用寿命可达 10 年以上，具有使用寿命长的优点。除了采用上述发热器件以外，雾化器 41 的雾化发热元件还可以采用氧化铝陶瓷发热器和纳米陶瓷发热器。

实施例三：

本实施例与实施例二基本相同，其主要不同点为电发热元件 30 不同。

如图 11 所示，本实施例中电发热元件 30 为置于电热烘烤杯 31 内的陶瓷发热片，陶瓷发热片具有使用寿命长，热容量大，恒温效果好的优点。除陶瓷发热片外，电发热元件 30 还可以采用 PTC 发热片、或 PTC 发热针、或 PTC 发热棒替代，PTC 发热片、PTC 发热针、PTC 发热棒均为常见的 PTC 发热体，PTC 发热体按照材料特性可以分类为高分子聚合物正温度系数器件和陶瓷正温度系数器件两种，PTC 发热片、PTC 发热针、PTC 发热棒均可以根据需要采用高分子聚合物正温度系数器件或者陶瓷正温度系数器件。除了采用上述发热器件以外，电发热元件 30 还可以采用氧化铝陶瓷发热器和纳米陶瓷发热器替代。

需要说明的是，电热烘烤杯 31 可以不取出而直接打开烟嘴 2 使用工具清理烟渣；同时，考虑到本实施例中电发热元件 30 为置于电热烘烤杯 31 内的陶瓷发热片的结构、电热烘烤杯 31 可能需要取出清理烟渣的需求，本实施例可以在电发热元件 30 和控制单元 6 的主控电路板之间设置长度冗余的连接线，从而可以方便地将电热烘烤杯 31 取出一段，以便清理烟渣更方便和彻底；此外，还可以根据需要在电热烘烤杯 31 的外部布置接触电极，从而可以将电热烘烤杯 31 完全抽出以便清理烟渣，清理完毕后插入电热烘烤杯 31 即可通过接触电极保证电热烘烤杯 31 内部的电发热元件 30 和控制单元 6 的主控电路板之间可靠

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的电连接。

实施例四：

本实施例与实施例二基本相同，其主要不同点为上壳 11 的形状不同。

如图 12 所示，本实施例中上壳 11 的表面设有多条环形防滑棱 112，环形防滑棱 112 使得上壳 11 的表面具有更大的摩擦力，手持上壳 11 时不易滑动。

实施例五：

本实施例为实施例一进行改进的基础技术方案，其具体结构同样也可参见图 1~图 5，其主要不同点为本实施例并未提供无线充电功能，即外壳 1 的内腔中没有无线充电感应线圈，控制单元 6 也没有包含无线感应充电电路。本实施例用于提供一种能够在烘烤的烟雾量比例不均匀或不足时平衡烟雾的均匀和不足，能够根据烟民的口感调试不同香烟口味，提供给烟民可选择的空间，从而达到最佳口感的具有调味功能的烘烤式电子烟。

如图 1、图 2 和图 3 所示，本实施例具有调味功能的烘烤式电子烟包括带有烟嘴 2 的外壳 1，外壳 1 内依次布置有烘烤单元 3、油杯 4、电池 5 和控制单元 6，烘烤单元 3 包括两端带有开口的电热烘烤杯 31，油杯 4 的开口端设有雾化器 41，电热烘烤杯 31 一端与烟嘴 2 连通、另一端与雾化器 41 连通，电热烘烤杯 31 的外壁上设有电发热片，电热烘烤杯 31 的电发热片、雾化器 41 的电热丝、电池 5 分别与控制单元 6 相连。在烘烤单元 3 对固体类雾化物 (香烟或烟叶) 进行烘烤时烟雾量比例的不均匀或不足时，结合雾化器 41 对油杯 4 中烟油的雾化，使得烟油的雾化物进入电热烘烤杯 31，和电热烘烤杯 31 中烘烤形成的雾化物混合，后被吸烟者吸入，从而能够有效平衡实现针对固体类雾化物 (香烟或烟叶) 雾化烟雾的均匀和不足，解决单独使用固体类雾化物 (香烟或烟叶) 时所存在的雾化时烟雾量比例的不均匀或不足的技术问题；而且，由于电热烘烤杯 31 一端与烟嘴 2 连通、另一端与雾化器 41 连通，即雾化器 41 位于电热烘烤杯 31 的前端，雾化器 41 对油杯 4 中烟油雾化形成的雾化物会进入电热烘烤杯 31 中，能够和电热烘烤杯 31 中烘烤形成的雾化物充分地混合，而且还有利于增强烘烤单元 3 对固体类雾化物 (香烟或烟叶) 进行烘烤的雾化效果。毫无疑问，电发热片也可以采用陶瓷发热片、或 PTC 发热片、或 PTC 发热针、或 PTC 发热棒等替代。

如图 3 所示，烟嘴 2、电热烘烤杯 31 之间设有具有降温、烟雾回流、脱焦油功能的金属降温过滤器 21。电热烘烤杯 31 的香烟或烟叶经过高温烘烤出的烟雾由于热量较大、容易烫口，本实施例通过金属降温过滤器 21 对高温烘烤出的烟雾进行降温过滤处理，对高温烘烤出的烟雾进行过滤处理，一方面通过金属降温过滤器 21 的热传导能够实现对烟雾的降温，从而让吸烟者轻松自由吸用，不会烫口；另一方面由于金属降温过滤器 21 的过

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滤，还能够实现烟雾回流和脱焦油的过滤效果，能够避开焦油的侵害，降低尼古丁的危害。

如图 3 所示，金属降温过滤器 21 包括螺纹连接的金属体 211 和回流罩 213，金属体 211 上设有降温孔 212，金属体 211 和回流罩 213 之间形成回流腔 214，回流罩 213 的侧壁上设有回流孔 215，降温孔 212、回流孔 215 分别与回流腔 214 连通，烟嘴 2 依次通过回流孔 215、回流腔 214、降温孔 212 与电热烘烤杯 31 的内腔连通，回流腔 214 的内壁上涂覆有铁氟龙 (聚四氟乙烯) 涂层。由于金属体 211 采用金属制成，具有良好的导热性能，从而降温孔 212 能够对高温烘烤出的烟雾进行降温处理；而铁氟龙具有抗酸抗碱、抗各种有机溶剂的特点，几乎不溶于所有的溶剂，因此本实施例利用铁氟龙抗各种有机溶剂的特点，将铁氟龙涂覆在回流腔 214 的内壁上，从而能够有效阻止焦油通过，能够避开焦油的侵害，降低尼古丁的危害；同时，金属体 211 和回流罩 213 之间采用螺纹连接，能够方便拆卸分离回流罩 213，以便对回流腔 214 内回收的焦油进行清理。

如图 3 所示，金属降温过滤器 21 和电热烘烤杯 31 之间设有第一定位硅胶套 216。第一定位硅胶套 216 一方面可以实现金属降温过滤器 21 和电热烘烤杯 31 的定位和固定，另一方面还能够实现金属降温过滤器 21 和电热烘烤杯 31 之间的密封。

如图 3 所示，电热烘烤杯 31 和外壳 1 之间设有双层真空玻璃管 (对应实施例一的隔热件 32)。相对于目前经常使用的隔热棉/耐火棉，双层真空玻璃管的隔热效果更好，能够使外壳 1 的外表触摸温度达到 45 度以下，确保外壳 1 在使用状态下不烫手，处于人体可接触的温度范围内。

如图 3 所示，油杯 4 的开口端设有带有安装孔 42 的封头 43，油杯 4 的一侧设有与烟嘴 2 连通的气道 44，雾化器 41 固定于封头 43 中，雾化器 41 的燃烧室通过安装孔 42 与外壳 1 外部的空气连通、且通过气道 44 与电热烘烤杯 31 的内腔连通。

如图 3 所示，油杯 4 和电热烘烤杯 31 之间设有连接套 45，油杯 4 插设固定于连接套 45 中，连接套 45 一方面能够对油杯 4 起到固定的作用，另一方面还能够对油杯 4 和电热烘烤杯 31 之间起到隔热作用，防止油杯 4 以及油杯 4 中烟油被电热烘烤杯 31 加热。

如图 1 和图 3 所示，外壳 1 包括上壳 11 和下壳 12，烟嘴 2 设于上壳 11 的一端，且上壳 11 的封头 43 的外侧设有第一电连接组件 13，下壳 12 的端部设有用于与第一电连接组件 13 配合实现电连接的第二电连接组件 14，烘烤单元 3 和油杯 4 分别布置于上壳 11 中，电池 5 和控制单元 6 分别布置于下壳 12 中。外壳 1 采用上壳 11 和下壳 12 的分段式结构，且基于第一电连接组件 13、第二电连接组件 14 配合实现电连接，充电及使用方便，检修和维护更快捷。

如图 3 所示，下壳 12 的端部设有带有 LED 灯以及充电接口 122 的灯盖 121，控制单元

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6 包括按钮 62 和液晶显示屏 63 和装设于安装支架 61 中的主控电路板，安装支架 61 插设于下壳 12 内且位于灯盖 121 的内侧，电热烘烤杯 31 的电发热片、雾化器 41 的电热丝、电池 5、充电接口 122、按钮 62、液晶显示屏 63、灯盖 121 中的 LED 灯分别与主控电路板电连接，按钮 62、液晶显示屏 63 设于下壳 12 上。

如图 4 所示，上壳 11 的端部设有连接外螺纹杆 (对应实施例一中的第一连接件 15)，第一电连接组件 13 包括通过第一绝缘硅胶套 133 间隙布置的第一正电极 131 和第一负电极 132，第一正电极 131 上设有进气孔 134，第一正电极 131 和第一负电极 132 分别与电热烘烤杯 31 的电发热片、雾化器 41 的电热丝电连接导通；下壳 12 上设有连接内螺套 (对应实施例一中的第二连接件 16)，连接内螺套内设有固定座 161，第二电连接组件 14 设于固定座 161 上，第二电连接组件 14 包括通过第二绝缘硅胶套 143 间隙布置的第二正电极 141 和第二负电极 142，第二正电极 141 和第二负电极 142 分别与控制单元 6 相连；连接外螺纹杆、连接内螺套之间螺纹配合连接、且使得第一正电极 131、第二正电极 141 接触导通，第一负电极 132、第二负电极 142 之间接触导通。第一电连接组件 13、第二电连接组件 14 采用的螺纹连接结构牢固，电连接稳定可靠，使用简单方便。

本实施例具有调味功能的烘烤式电子烟的工作过程如下：当吸烟者需要吸烟时，按下按钮 62 则主控电路板控制雾化器 41 的电热丝以及电热烘烤杯 31 通电，对油杯 4 中的烟油进行加热雾化为调味烟雾，同时电热烘烤杯 31 的温度迅速达到 190～220 度，对电热烘烤杯 31 内的固体类雾化物 (香烟或烟叶) 进行烘烤。如图 5 所示，当用户吸烟时，则外部的空气会从连接外螺纹杆、连接内螺套之间螺纹间隙经过进气孔 134 进入上壳 11 内，然后经封头 43 的安装孔 42 进入雾化器 41 中，将烟油雾化得到的调味烟雾从油杯 4 的一侧的气道 44 进入电热烘烤杯 31 的内腔，在电热烘烤杯 31 内完成调味烟雾、固体类雾化物 (香烟或烟叶) 的合成混合得到调味后的烟雾，调味后的烟雾经过金属降温过滤器 21 的进行降温、烟雾回流、脱焦油处理，然后通过烟嘴 2 让吸烟者吸用。

以上所述仅是本发明的优选实施方式，本发明的保护范围并不仅局限于上述实施例，凡属于本发明思路下的技术方案均属于本发明的保护范围。应当指出，对于本技术领域的普通技术人员来说，在不脱离本发明原理前提下的若干改进和润饰，这些改进和润饰也应视为本发明的保护范围。

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权 利 要 求

1. 一种具有调味功能的烘烤式电子烟，其特征在于：包括带有烟嘴（2）的外壳（1），所述外壳（1）内依次布置有烘烤单元（3）、油杯（4）、电池（5）和控制单元（6），所述烘烤单元（3）包括两端带有开口的电热烘烤杯（31），所述油杯（4）的开口端设有雾化器（41），所述电热烘烤杯（31）一端与烟嘴（2）连通、另一端与雾化器（41）连通，所述电热烘烤杯（31）的外壁上设有电发热片，所述电热烘烤杯（31）的电发热片、雾化器（41）的电热丝、电池（5）分别与控制单元（6）相连。

2. 根据权利要求1所述的具有调味功能的烘烤式电子烟，其特征在于：所述烟嘴（2）、电热烘烤杯（31）之间设有具有降温、烟雾回流、脱焦油功能的金属降温过滤器（21）。

3. 根据权利要求2所述的具有调味功能的烘烤式电子烟，其特征在于：所述金属降温过滤器（21）包括螺纹连接的金属体（211）和回流罩（213），所述金属体（211）上设有降温孔（212），所述金属体（211）和回流罩（213）之间形成回流腔（214），所述回流罩（213）的侧壁上设有回流孔（215），所述降温孔（212）、回流孔（215）分别与回流腔（214）连通，所述烟嘴（2）依次通过回流孔（215）、回流腔（214）、降温孔（212）与电热烘烤杯（31）的内腔连通，所述回流腔（214）的内壁上涂覆有铁氟龙涂层。

4. 根据权利要求3所述的具有调味功能的烘烤式电子烟，其特征在于：所述金属降温过滤器（21）和电热烘烤杯（31）之间设有第一定位硅胶套（216）。

5. 根据权利要求4所述的具有调味功能的烘烤式电子烟，其特征在于：所述电热烘烤杯（31）和外壳（1）之间设有双层真空玻璃管。

6. 根据权利要求1～5中任意一项所述的具有调味功能的烘烤式电子烟，其特征在于：所述油杯（4）的开口端设有带有安装孔（42）的封头（43），所述油杯（4）的一侧设有与烟嘴（2）连通的气道（44），所述雾化器（41）固定于封头（43）中，所述雾化器（41）的燃烧室通过安装孔（42）与外壳（1）外部的空气连通、且通过气道（44）与电热烘烤杯（31）的内腔连通。

7. 根据权利要求6所述的具有调味功能的烘烤式电子烟，其特征在于：所述油杯（4）和电热烘烤杯（31）之间设有连接套（45），所述油杯（4）插设固定于连接套（45）中。

8. 根据权利要求7所述的具有调味功能的烘烤式电子烟，其特征在于：所述外壳（1）包括上壳（11）和下壳（12），所述烟嘴（2）设于上壳（11）的一端，且所述上壳（11）的封头（43）的外侧设有第一电连接组件（13），所述下壳（12）的端部设有用于与第一电连接组件（13）配合实现电连接的第二电连接组件（14），所述烘烤单元（3）和油杯（4）分别布置于上壳（11）中，所述电池（5）和控制单元（6）分别布置于下壳（12）中。

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9. 根据权利要求 8 所述的具有调味功能的烘烤式电子烟，其特征在于：所述上壳 (11) 的端部设有连接外螺纹杆，所述第一电连接组件 (13) 包括通过第一绝缘硅胶套 (133) 间隙布置的第一正电极 (131) 和第一负电极 (132)，所述第一正电极 (131) 上设有进气孔 (134)，所述第一正电极 (131) 和第一负电极 (132) 分别与电热烘烤杯 (31) 的电发热片、雾化器 (41) 的电热丝电连接导通；所述下壳 (12) 上设有连接内螺套，所述连接内螺套内设有固定座 (161)，所述第二电连接组件 (14) 设于固定座 (161) 上，所述第二电连接组件 (14) 包括通过第二绝缘硅胶套 (143) 间隙布置的第二正电极 (141) 和第二负电极 (142)，所述第二正电极 (141) 和第二负电极 (142) 分别与控制单元 (6) 相连；所述连接外螺纹杆、连接内螺套之间螺纹配合连接、且使得第一正电极 (131)、第二正电极 (141) 接触导通，第一负电极 (132)、第二负电极 (142) 之间接触导通。

10. 根据权利要求 9 所述的具有调味功能的烘烤式电子烟，其特征在于：所述下壳 (12) 的端部设有带有 LED 灯以及充电接口 (122) 的灯盖 (121)，所述控制单元 (6) 包括按钮 (62) 和液晶显示屏 (63) 和装设于安装支架 (61) 中的主控电路板，所述安装支架 (61) 插设于下壳 (12) 内且位于灯盖 (121) 的内侧，所述电热烘烤杯 (31) 的电发热片、雾化器 (41) 的电热丝、电池 (5)、充电接口 (122)、按钮 (62)、液晶显示屏 (63)、灯盖 (121) 中的 LED 灯分别与主控电路板电连接，所述按钮 (62)、液晶显示屏 (63) 设于下壳 (12) 上。

11. 一种具有调味功能的烘烤式电子烟，其特征在于：包括带有烟嘴 (2) 的外壳 (1)，所述外壳 (1) 内依次布置有烘烤单元 (3)、油杯 (4)、电池 (5) 和控制单元 (6)，所述烘烤单元 (3) 包括两端带有开口的电热烘烤杯 (31)，所述油杯 (4) 的开口端设有雾化器 (41)，所述电热烘烤杯 (31) 一端与烟嘴 (2) 连通、另一端与雾化器 (41) 连通，所述电热烘烤杯 (31) 上设有电发热元件 (30)，所述电热烘烤杯 (31) 的电发热元件 (30)、雾化器 (41) 的电热元件、电池 (5) 分别与控制单元 (6) 相连，所述外壳 (1) 的内腔中还设有无线充电感应线圈，所述控制单元 (6) 还包括无线感应充电电路，所述无线充电感应线圈和无线感应充电电路相互相连。

12. 根据权利要求 11 所述的具有调味功能的烘烤式电子烟，其特征在于：所述烟嘴 (2)、电热烘烤杯 (31) 之间设有具有降温、烟雾回流、脱焦油功能的金属降温过滤器 (21)，所述金属降温过滤器 (21) 的气流通道中设有滤网 (22)。

13. 根据权利要求 12 所述的具有调味功能的烘烤式电子烟，其特征在于：所述金属降温过滤器 (21) 包括螺纹连接的金属体 (211) 和回流罩 (213)，所述金属体 (211) 上设有降温孔 (212)，所述金属体 (211) 和回流罩 (213) 之间形成回流腔 (214)，所述回

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流罩（213）的侧壁上设有回流孔（215），所述降温孔（212）、回流孔（215）分别与回流腔（214）连通，所述烟嘴（2）依次通过回流孔（215）、回流腔（214）、降温孔（212）与电热烘烤杯（31）的内腔连通，所述降温孔（212）、回流腔（214）的内壁上均涂覆有铁氟龙涂层，所述滤网（22）设于回流腔（214）且紧贴降温孔（212）布置，所述降温孔（212）通过滤网（22）与回流腔（214）连通。

14. 根据权利要求 13 所述的具有调味功能的烘烤式电子烟，其特征在于：所述金属降温过滤器（21）和电热烘烤杯（31）之间设有第一定位硅胶套（216），所述电热烘烤杯（31）的端部伸出第一定位硅胶套（216）形成清理烟渣夹持部（311），所述电热烘烤杯（31）和外壳（1）之间设有隔热件（32），所述隔热件（32）为气凝胶、双层真空玻璃管、气凝胶毡中的一种。

15. 根据权利要求 14 所述的具有调味功能的烘烤式电子烟，其特征在于：所述油杯（4）的开口端设有带有安装孔（42）的封头（43），所述油杯（4）的一侧设有与烟嘴（2）连通的气道（44），所述雾化器（41）固定于封头（43）中，所述雾化器（41）的燃烧室通过安装孔（42）与外壳（1）外部的空气连通、且通过气道（44）与电热烘烤杯（31）的内腔连通，所述油杯（4）和电热烘烤杯（31）之间设有连接套（45），所述油杯（4）插设固定于连接套（45）中，所述连接套（45）固定于外壳（1）内；所述油杯（4）靠烟嘴（2）一端的端盖（46）上设有加油孔（47），所述加油孔（47）中设有加油硅胶塞（48）。

16. 根据权利要求 15 所述的具有调味功能的烘烤式电子烟，其特征在于：所述外壳（1）包括上壳（11）和下壳（12），所述烟嘴（2）设于上壳（11）的一端，且所述上壳（11）的封头（43）的外侧设有第一电连接组件（13），所述下壳（12）的端部设有用于与第一电连接组件（13）配合实现电连接的第二电连接组件（14），所述烘烤单元（3）和油杯（4）分别布置于上壳（11）中，所述电池（5）和控制单元（6）分别布置于下壳（12）中；所述上壳（11）的表面设有多条环形防滑棱（112）。

17. 根据权利要求 16 所述的具有调味功能的烘烤式电子烟，其特征在于：所述上壳（11）的端部设有第一连接件（15），所述第一电连接组件（13）包括通过第一绝缘硅胶套（133）间隙布置的第一正电极（131）和第一负电极（132），所述第一正电极（131）上设有进气孔（134），所述第一正电极（131）和第一负电极（132）分别与电热烘烤杯（31）的电发热片、雾化器（41）的电热元件电连接导通；所述下壳（12）上设有第二连接件（16），所述第二电连接组件（14）插设于第二连接件（16）中，所述第二电连接组件（14）包括通过第二绝缘硅胶套（143）间隙布置的第二正电极（141）和第二负电极（142），所述第二正电极（141）和第二负电极（142）分别与控制单元（6）相连；所述第一连接件（15）、

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第二连接件 (16) 之间插接或者螺纹连接、且使得第一正电极 (131)、第二正电极 (141) 接触导通，第一负电极 (132)、第二负电极 (142) 之间接触导通。

18. 根据权利要求 17 所述的具有调味功能的烘烤式电子烟，其特征在于：所述下壳 (12) 的端部设有充电接口 (122)，所述控制单元 (6) 包括按钮 (62) 和液晶显示屏 (63) 和通过安装支架 (61) 装设于下壳 (12) 中的主控电路板，所述按钮 (62) 和液晶显示屏 (63) 均设于主控电路板上，所述电热烘烤杯 (31) 的电发热元件 (30)、雾化器 (41) 的电热元件、电池 (5)、充电接口 (122) 分别与主控电路板电连接，所述按钮 (62)、液晶显示屏 (63) 设于下壳 (12) 上，所述上壳 (11) 和下壳 (12) 为金属管、碳纤管或者防爆玻璃管中的一种，且所述上壳 (11) 上开设有均匀布置的多个散热孔 (111)；所述液晶显示屏 (63) 为 OLED 显示屏。

19. 根据权利要求 11—18 所述的具有调味功能的烘烤式电子烟，其特征在于：所述电热烘烤杯 (31) 的电发热元件 (30)、雾化器 (41) 的电热元件的表面均涂覆有铁氟龙涂层。

20. 根据权利要求 19 所述的具有调味功能的烘烤式电子烟，其特征在于：所述雾化器 (41) 的电热元件为金属发热丝、陶瓷发热片、PTC 发热片、PTC 发热针、PTC 发热棒中的一种；所述电发热元件 (30) 为环绕布置于电热烘烤杯 (31) 的侧壁上的 FPCB 发热片，或者所述电发热元件 (30) 为置于电热烘烤杯 (31) 内的陶瓷发热片、或 PTC 发热片、或 PTC 发热针、或 PTC 发热棒。

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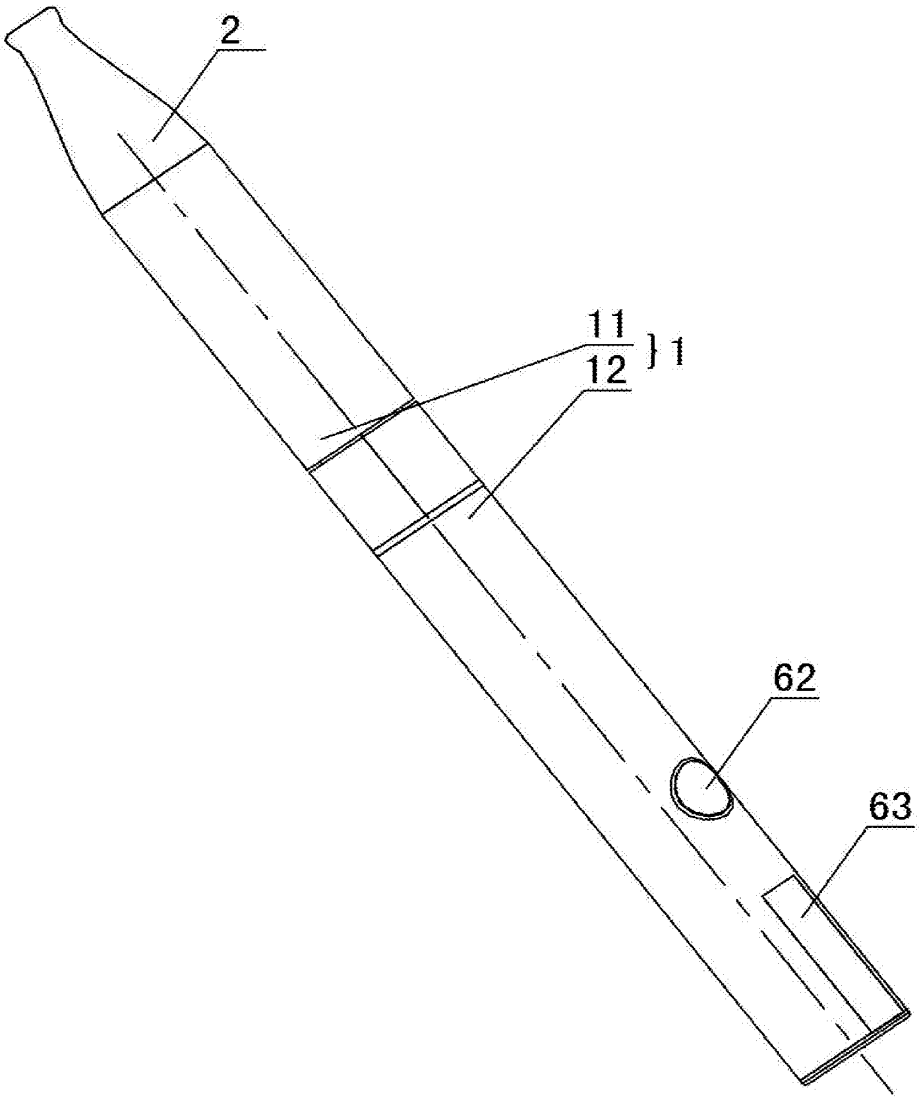


图 1

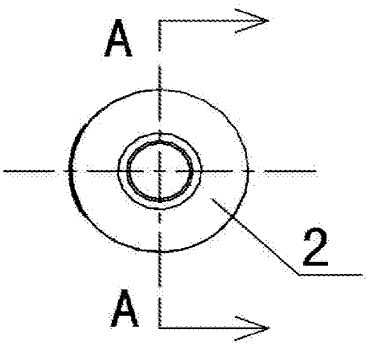


图 2

NJOY Exhibit 1007.157

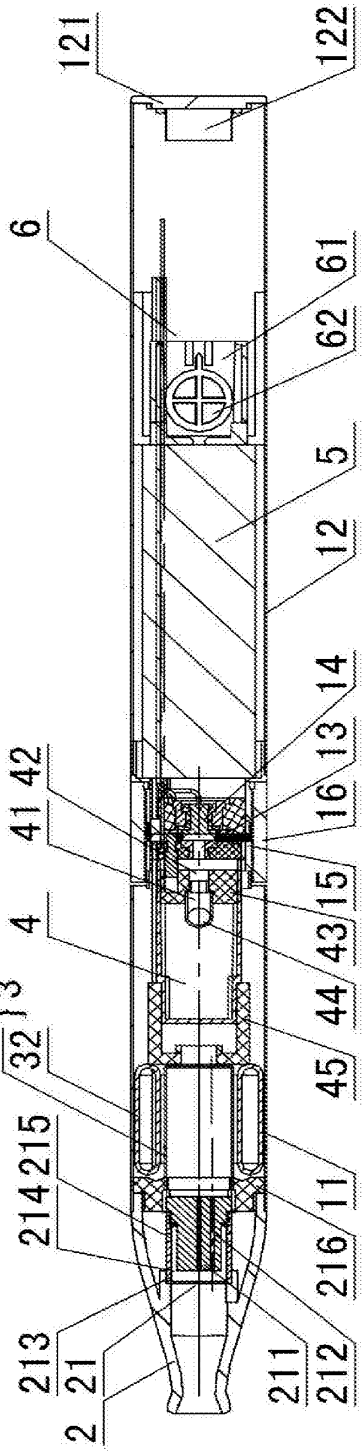


图 3

NJOY Exhibit 1007.158

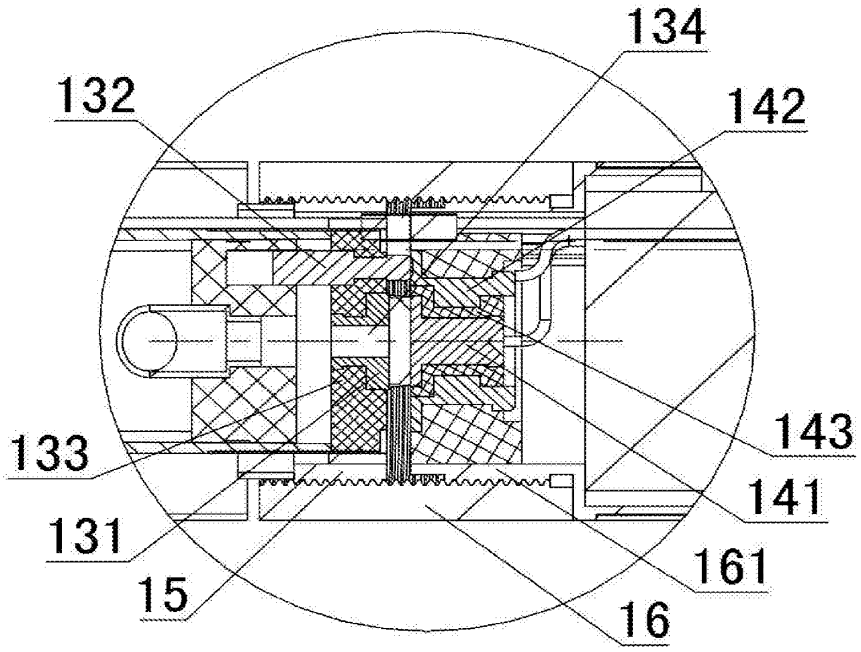


图 4

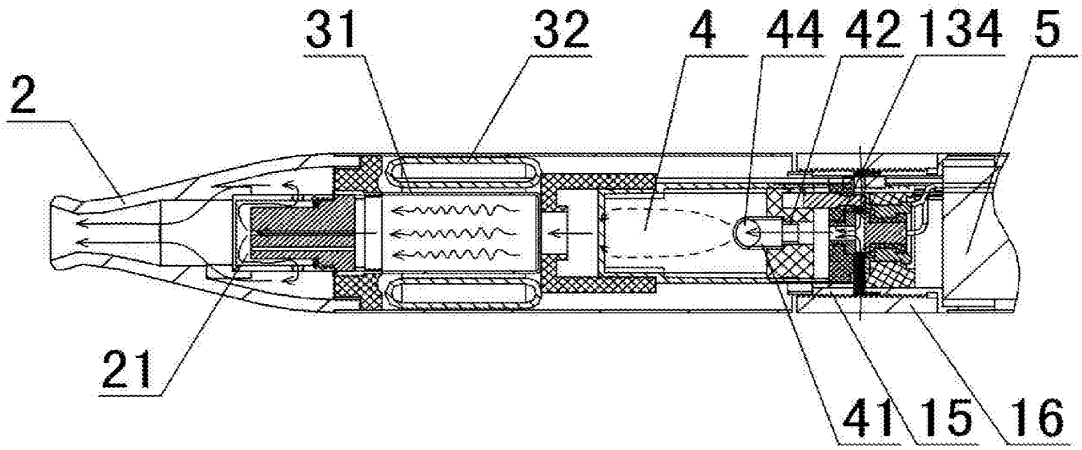


图 5

NJOY Exhibit 1007.159

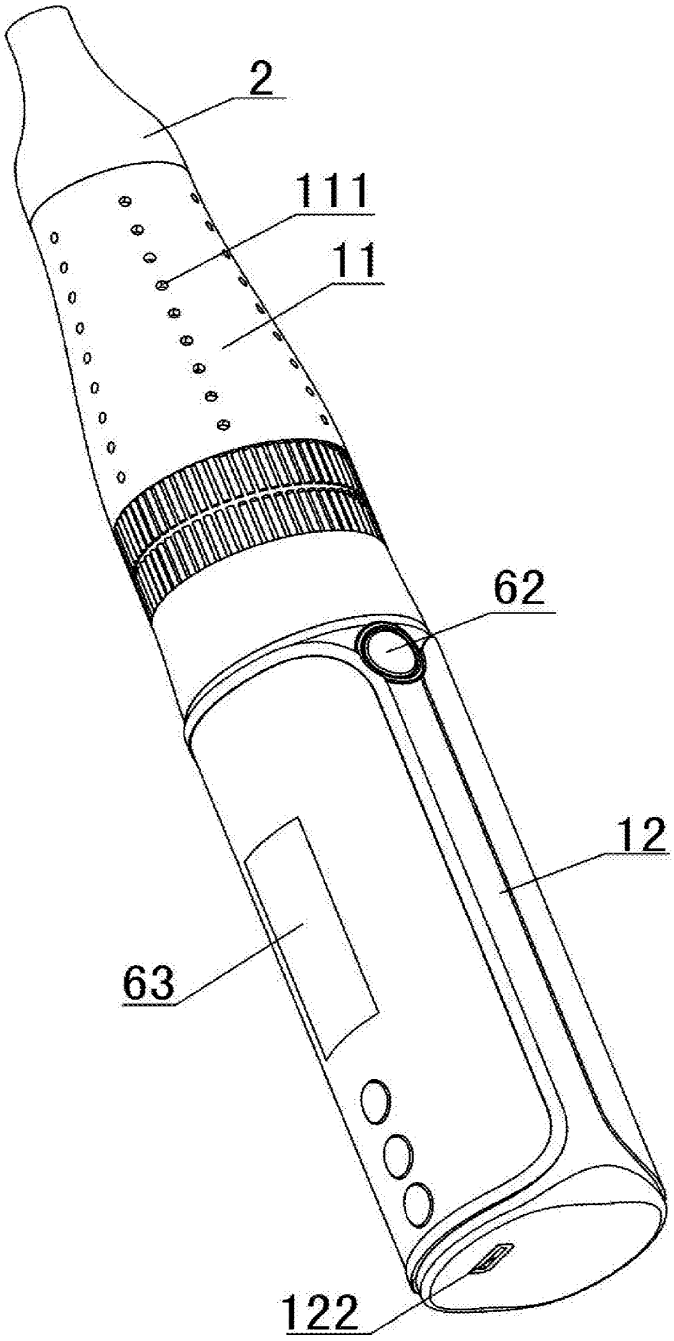


图 6

NJOY Exhibit 1007.160

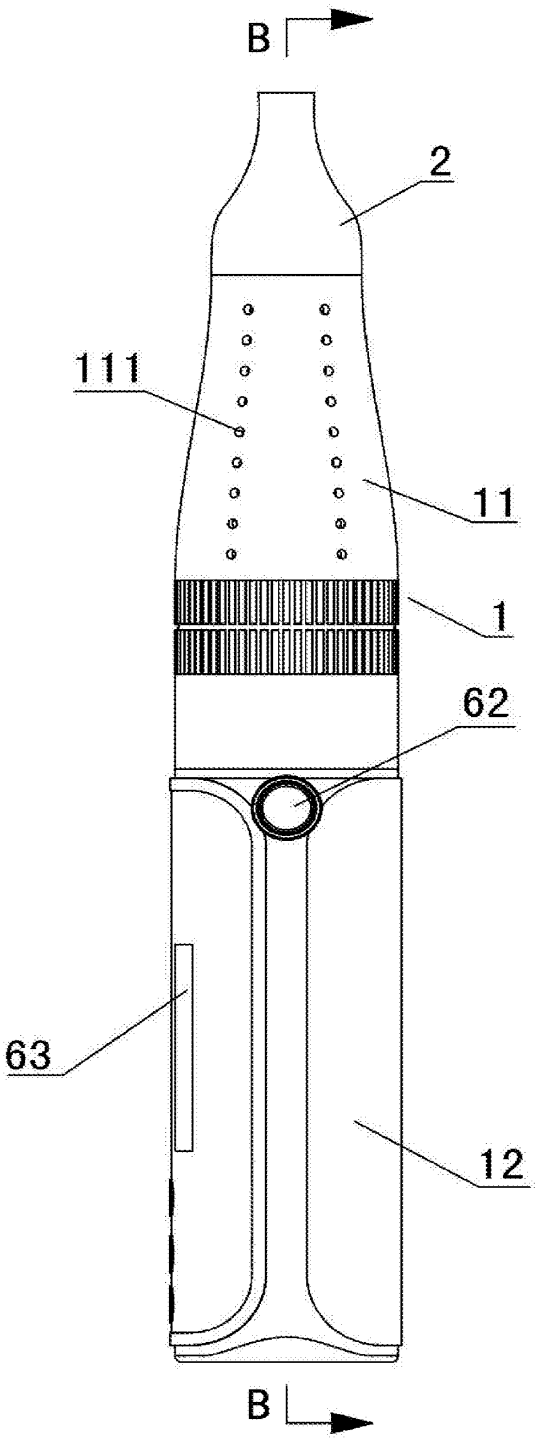


图 7

NJOY Exhibit 1007.161

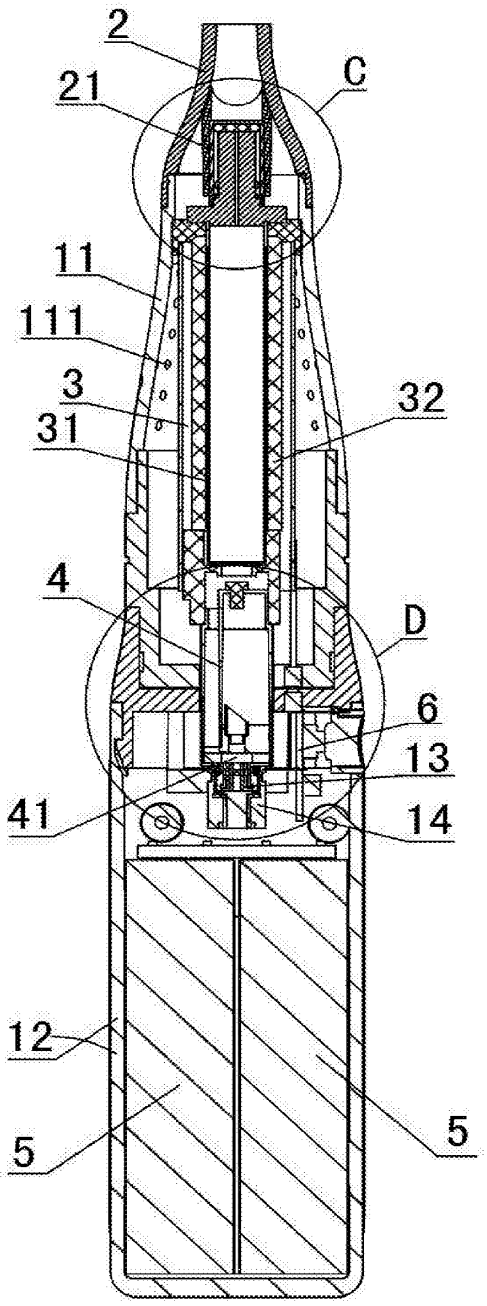


图 8

NJOY Exhibit 1007.162

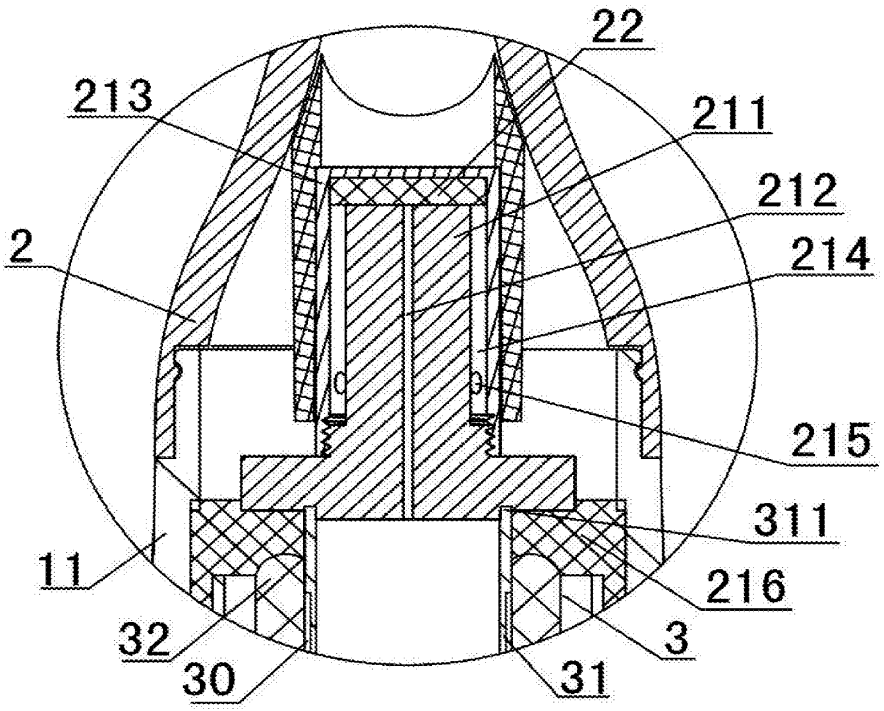


图 9

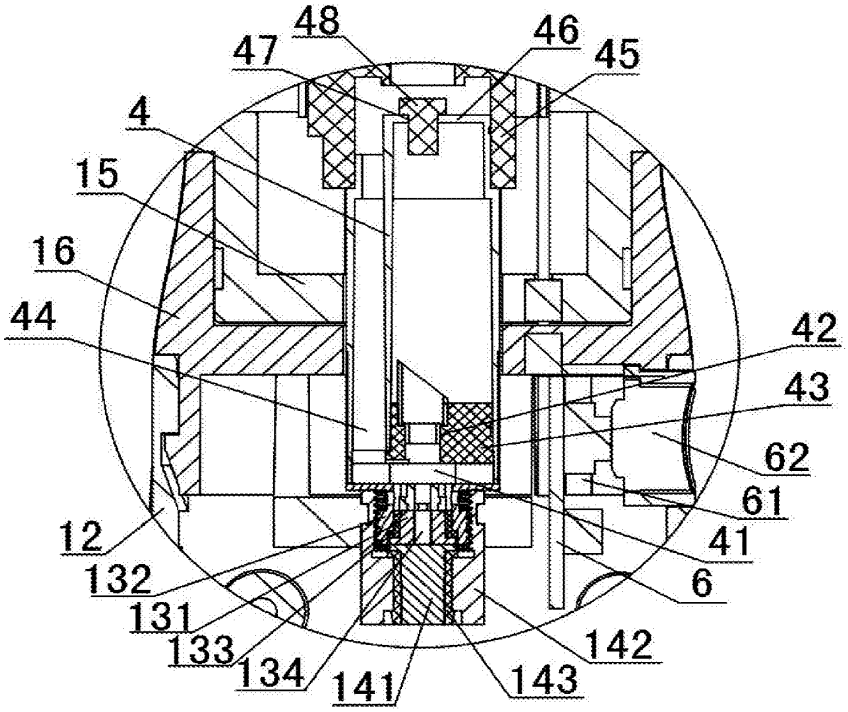


图 10

NJOY Exhibit 1007.163

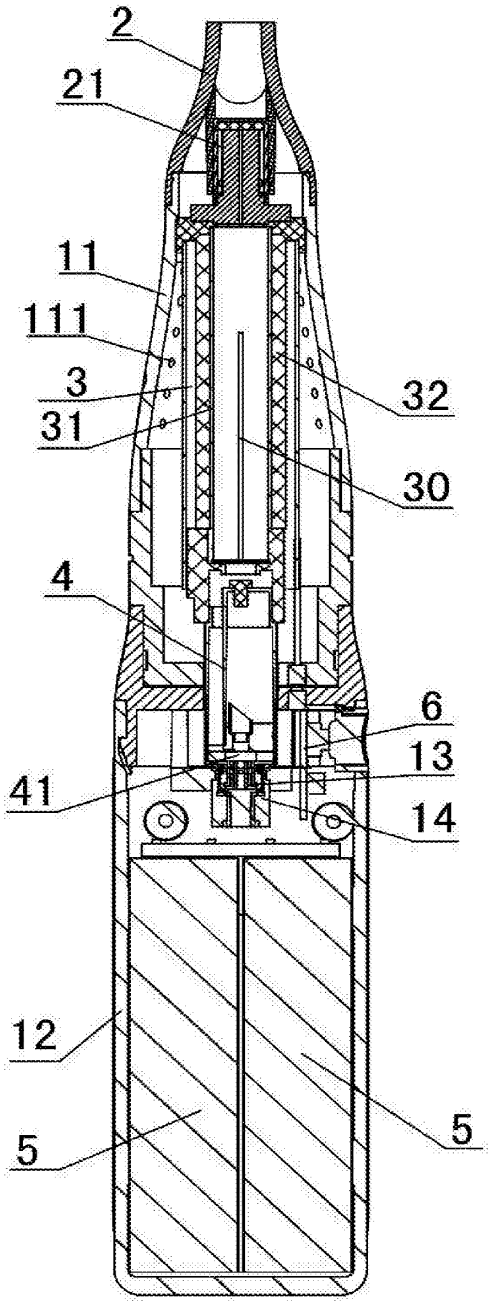


图 11

NJOY Exhibit 1007.164

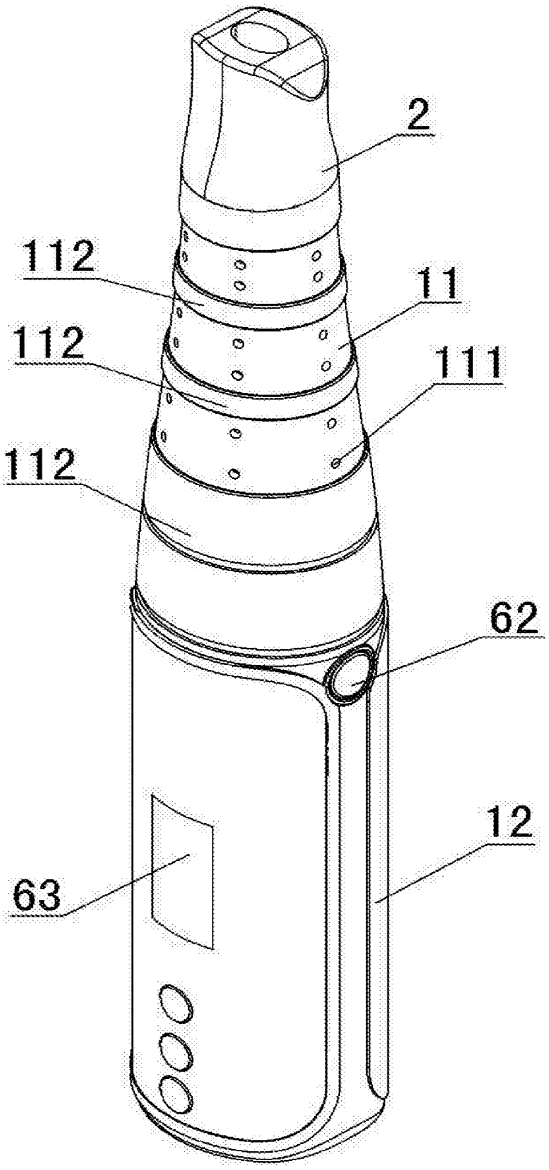


图 12

NJOY Exhibit 1007.165

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2015/075234

A. CLASSIFICATION OF SUBJECT MATTER

A24F 47/00 (2006.01) i

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A24F

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

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

CNPAT, CNKI, WPI, EPODOC: electronic cigarette, oil cup, atomize, bak+, electron+, cigarette, oil, firing, roast, refluen+

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 102356930 A (LIU, Qiuming), 22 February 2012 (22.02.2012), description, paragraphs 0022-0032, and figures 1-6	1, 2
Y	CN 102356930 A (LIU, Qiuming), 22 February 2012 (22.02.2012), description, paragraphs 0022-0032, and figures 1-6	6-12, 19, 20
Y	CN 202566289 U (LIU, Xiang), 05 December 2012 (05.12.2012), description, paragraphs 0031-0036, and figures 1-8	6-12, 19, 20
Y	CN 201238610 Y (XIA, Haoran), 20 May 2009 (20.05.2009), description, page 4, last paragraph to page 10, paragraph 3, and figures 1-6	8-10
PX	CN 204207071 U (LI, Hui), 18 March 2015 (18.03.2015), description, paragraphs 0028-0038, and figures 1-5	1-10
PX	CN 104323429 A (LI, Hui), 04 February 2015 (04.02.2015), description, paragraphs 0026-0036, and figures 1-5	1-10
A	CN 202456409 U (LIU, Qiuming), 03 October 2012 (03.10.2012), the whole document	1-20

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

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
06 July 2015 (06.07.2015)	17 July 2015 (17.07.2015)
Name and mailing address of the ISA/CN: State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088, China Facsimile No.: (86-10) 62019451	Authorized officer ZHANG, Dun Telephone No.: (86-10) 61648476

Form PCT/IS A/210 (second sheet) (July 2009)

NJOY Exhibit 1007.166

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2015/075234

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2014299139 A1 (LIU, Qiuming), 09 October 2014 (09.10.2014), the whole document	1-20

NJOY Exhibit 1007.167

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2015/075234

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 102356930 A	22 February 2012	CN 102356930 B	13 November 2013
CN 202566289 U	05 December 2012	None	
CN 201238610 Y	20 May 2009	KR 20100002123 U	02 March 2010
CN 204207071 U	18 March 2015	None	
CN 104323429 A	04 February 2015	None	
CN 202456409 U	03 October 2012	None	
US 2014299139 A1	09 October 2014	WO 2014166028 A1	16 October 2014

NJOY Exhibit 1007.168

国际检索报告

国际申请号
PCT/CN2015/075234

A. 主题的分类

A24F 47/00 (2006.01) i

按照国际专利分类(IPC)或者同时按照国家分类和IPC两种分类

B. 检索领域

检索的最低限度文献(标明分类系统和分类号)

A24F

包含在检索领域中的除最低限度文献以外的检索文献

在国际检索时查阅的电子数据库(数据库的名称,和使用的检索词(如使用))

CNPAT,CNKI,WPI,EPODOC:烤,电子烟,油杯,油,雾化,烘烤,回流,bak+,electron+, cigarette, oil, firing:, roast, ref luen+

C. 相关文件

类型*	引用文件,必要时,指明相关段落	相关的权利要求
X	CN 102356930 A (刘秋明) 2012年2月220 (2012-02-22) 说明书第0022-0032段、附图1-6	1,2
Y	CN 102356930 A (刘秋明) 2012年2月220 (2012-02-22) 说明书第0022-0032段、附图1-6	6-12,19,20
Y	CN 202566289 U (刘翔) 2012年12月50 (2012-12-05) 说明书第0031-0036段、附图1-8	6-12,19,20
Y	CN 201238610 Y (夏浩然) 2009年5月20日 (2009-05-20) 说明书第4页最后1段至第10页第3段、附图1-6	8-10
PX	CN 204207071 U (李辉) 2015年3月180 (2015-03-18) 说明书第0028-0038段、附图1-5	1-10
PX	CN 104323429 A (李辉) 2015年2月4日 (2015-02-04) 说明书第0026-0036段、附图1-5	1-10
A	CN 202456409 U (刘秋明) 2012年10月30 (2012-10-03) 全文	1-20

☑ 其余文件在C栏的续页中列出。 ☑ 见同族专利附件。

* 引用文件的具体类型:

"A" 认为不特别相关的表示了现有技术一般状态的文件

"E" 在国际申请日的当天或之后公布的在先申请或专利

"L" 可能对优先权要求构成怀疑的文件,或为确定另一篇引用文件的公布日而引用的或者因其他特殊理由而引用的文件(如具体说明的)

"O" 涉及口头公开、使用、展览或其他方式公开的文件

"P" 公布日先于国际申请日但迟于所要求的优先权日的文件

"T" 在申请日或优先权日之后公布,与申请不相抵触,但为了理解发明之理论或原理的在后文件

"X" 特别相关的文件,单独考虑该文件,认定要求保护的发明不是新颖的或不具有创造性

"Y" 特别相关的文件,当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时,要求保护的发明不具有创造性

"&" 同族专利的文件

国际检索实际完成的日期	国际检索报告邮寄日期
2015年7月6日	2015年7月17日

ISA/CN的名称和邮寄地址	受权官员
中华人民共和国国家知识产权局(ISA/CN) 北京市海淀区蓟门桥西土城路6号 100088 中国	张磯
传真号 (86-10) 62019451	电话号码 (86-10) 61648476

表 PCT/ISA/210 (第2页)(2009年7月)

NJOY Exhibit 1007.169

国际检索报告

国际申请号
PCT/CN2015/075234

C. 相关文件

类 型*	引用文件，必要时，指明相关段落	相关的权利要求
A	US 2014299139 A1 (LIU, QIUMING) 2014 年 10月 9 日 (2014 - 10 - 09) 全文	1-20

NJOY Exhibit 1007.170

国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2015/075234

检索报告引用的专利文件			公布日（年/月/日）	同族专利			公布日（年/月/日）
CN	102356930	A	2012年2月22日	CN	102356930	B	2013年11月13日
CN	202566289	U	2012年12月5日		无		
CN	201238610	Y	2009年5月20日	KR	20100002123	U	2010年3月2日
CN	204207071	U	2015年3月18日		无		
CN	104323429	A	2015年2月4日		无		
CN	202456409	U	2012年10月3日		无		
US	2014299139	A1	2014年10月9日	WO	2014166028	A1	2014年10月16日

表 PCT/ISA/210 （同族专利附件）（2009年7月）

NJOY Exhibit 1007.171

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of:
Jan Andries Verleur et al.

Application No.: 17/095,567	Confirmation No.: 6248
Filed: November 11, 2020	Art Unit: 1747
For: VAPORIZER	Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

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

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08 submissions. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted. In accordance with 37 C.F.R. § 1.98(d)(1) and as noted by a double-asterisk next to the Cite No. on the attached PTO/SB/08, copies of the noted references are not supplied because they were previously cited by or submitted to the Office in prior application number 14/201,267 filed March 7, 2014 and relied on in the above-identified application for an earlier effective filing date under 35 U.S.C. § 120. Submitted herewith are copies of at least one foreign patent reference in accordance with 37 C.F.R. § 1.98(a)(2).

NJOY Exhibit 1007.172

In accordance with 37 C.F.R. § 1.56(a)(1), Applicant hereby notes that the first of the two attached PTO/SB/08 submissions includes references cited in USPTO Office Actions and/or search reports of a foreign patent office in related applications. Applicant hereby provides the Office with the following chart of related, pending or patented US applications:

U.S. App No.	Filing Date	Publication or Patent No.
14/196,729	Mar 4, 2014	US 10,039,321
14/539,801	Nov 12, 2014	US 10,085,481
14/790,566	Jul 2, 2015	US 2015-0305409
14/201,267	Mar 7, 2014	US 10,842,191
16/119,359	Aug 31, 2018	US 2018-0368481
16/179,829	Nov 2, 2018	US 10,653,186
16/181,316	Nov 5, 2018	US 10,667,561
16/193,994	Nov 16, 2018	US 10,736,360
16/193,943	Nov 16, 2018	US 2019-0082740
15/036,292	Nov 12, 2014	US 2016-0278436

In accordance with 37 CFR § 1.56(a)(2) and MPEP 2004, Applicant hereby notes that the second of the two attached PTO/SB/08 submissions includes references which the Applicant believes may also include relevant information over which the pending claims patentably defines.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references. The Examiner is also requested to consider the references that have already been considered in parent application US 14/201,267, to which the above-identified continuation application claims the benefit under 35 U.S.C. § 120. See MPEP 609.02.

NJOY Exhibit 1007.173

Any fees believed to be due have been paid herewith. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed, or which should have been filed herewith to our Deposit Account No. 50-0311, under Order No. 17/095,567.

Respectfully submitted,

Dated: April 9, 2021

Electronic signature: /mdvl/
Michael D. Van Loy
Registration No.: 52,315
MINTZ LEVIN COHN FERRIS GLOVSKY
AND POPEO, P.C.
3580 Carmel Mountain Road, Suite 300
San Diego, California 92130-6768
(858) 314-1500 || (858) 314-1501 (Fax)
Attorney for Applicant

NJOY Exhibit 1007.174

Used in Lieu of PTO/SB/08A/B
(Based on PTO 11-07 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
(Use as many sheets as necessary)				Art Unit	1747
				Examiner Name	Not Yet Assigned
Sheet	1	of	3	Attorney Docket Number	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US-20050134215-A1	06-23-2005	Bozzone et al.	
	B	US-20070283972-A1	12-13-2007	Monsees et al.	
	C	US-20100194337-A1	08-05-2010	OPOLKA	
	D	US-20100207576-A1	08-19-2010	Elizalde Rodarte	
	E	US-20100253279-A1	10-07-2010	Matthias	
	F	US-20110036346-A1	02-17-2011	Cohen et al.	
	G	US-20110159705-A1	06-30-2011	Schmidt	
	H	US-20110265806-A1	11-03-2011	ALARCON et al.	
	I	US-20110303231-A1	12-15-2011	LI et al.	
	J	US-20120048266-A1	03-01-2012	Alelov	
	K	US-20120199663-A1	08-09-2012	QIU	
	L	US-20120223673-A1	09-06-2012	CHEN et al.	
	M	US-20120255546-A1	10-11-2012	Goetz et al.	
	N	US-20120318882-A1	12-20-2012	Abehasera	
	O	US-20130037041-A1	02-14-2013	Worm et al.	
	P	US-20130042865-A1	02-21-2013	MONSEES et al.	
	Q	US-20130104916-A1	05-02-2013	Bellinger et al.	
	R	US-20130168880-A1	07-04-2013	DUKE	
	S	US-20130192623-A1	08-01-2013	Tucker et al.	
	T	US-20130220315-A1	08-29-2013	Conley et al.	
	U	US-20130228191-A1	09-05-2013	Newton	
	V	US-20130255675-A1	10-03-2013	Liu	
	W	US-20130284194-A1	10-31-2013	Newton	
	X	US-20130288081-A1	10-31-2013	CHENG et al.	
	Y	US-20130298905-A1	11-14-2013	Levin et al.	
	Z	US-20130333711-A1	12-19-2013	Liu	
	AA	US-20140014124-A1	01-16-2014	Glasberg et al.	
	AB	US-20140053856-A1	02-27-2014	Liu	
	AC	US-20140053857-A1	02-27-2014	Liu	
	AD	US-20140076310-A1	03-20-2014	Newton	
	AE	US-20140096781-A1	04-10-2014	Sears et al.	
	AF	US-20140123989-A1	05-08-2014	LaMothe	
	AG	US-20140150783-A1	06-05-2014	Liu	
	AH	US-20140150784-A1	06-05-2014	Liu	
	AI	US-20140182610-A1	07-03-2014	Liu	
	AJ	US-20140190496-A1	07-10-2014	Wensley et al.	
	AK	US-20140253144-A1	09-11-2014	Novak, III et al.	
	AL	US-20140261490-A1	09-18-2014	Kane	
	AM	US-20140299137-A1	10-09-2014	Kieckbusch et al.	
	AN	US-20140366898-A1	12-18-2014	MONSEES et al.	
	AO	US-20150020831-A1	01-22-2015	Weigensberg et al.	
	AP	US-20150059783-A1	03-05-2015	Liu	

Submission 1 of 2

Used in Lieu of PTO/SB/08A/B
(Based on PTO 11-07 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
(Use as many sheets as necessary)				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	

	AQ	US-20150090256-A1	04-02-2015	CHUNG	
	AR	US-20150090278-A1	04-02-2015	Schiff et al.	
	AS	US-20150090281-A1	04-02-2015	Chen	
	AT	US-20150101625-A1	04-16-2015	Newton et al.	
	AU	US-20150118895-A1	04-30-2015	Zheng et al.	
	AV	US-20150157055-A1	06-11-2015	Lord	
	AW	US-20150208728-A1	07-30-2015	Lord	
	AX	US-20150305409-A1	10-29-2015	Verleur et al.	
	AY	US-20160278436-A1	09-29-2016	Verleur et al.	
	AZ	US-20160353804-A1	12-08-2016	LORD	
	BA	US-20170197046-A1	07-13-2017	BUCHBERGER	
	BB	US-4941236	07-17-1990	Sherman et al.	
	BC	US-5269327	12-14-1993	Counts et al.	
	BD	US-8893726	11-25-2014	Hon	
	BE	US-9498588	11-22-2016	Benassayag et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	**A	CN-201408820-Y	02-17-2010	Cixi E-cig Electronic Technology Co., Ltd		
	**B	CN-202941411-U	05-22-2013	Jiangmen City Yilong Industrial Co., Ltd		
	**C	CN-203087525-U	07-31-2013	Innokin Technology Co., Ltd		
	**D	CN-203152489-U	08-28-2013	Xiang, Zhiyong		
	**E	CN-203182012-U	09-11-2013	Ald Group Ltd		
	**F	CN-203182014-U	09-11-2013	Shenzhen Jieshibo Technology Co., Ltd		
	G	DE-102012100831-B3	02-14-2013	Snoke GmbH & Co KG		
	**H	DE-202012004792-U1	06-26-2012	Gros, Kerstin		
	**I	EP-0845220-B1	09-03-2003	Japan Tobacco Inc		
	**J	EP-2399636-A1	12-28-2011	Philip Morris Prod		
	**K	KR-200457340-Y1	12-15-2011	Chungmin Kim		
	**L	KR-20110006928-U	07-07-2011	Nam Dong-hwan		
	M	WO-2013083636-A1	06-13-2013	Philip Morris Prod		
	**N	WO-2015082560-A1	06-11-2015	Philip Morris Products SA		

Examiner Signature		Date Considered	

Submission 1 of 2

Used in Lieu of PTO/SB/08A/B
(Based on PTO 11-07 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
(Use as many sheets as necessary)				Examiner Name	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	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[2]
	**A	Uptoyou Frometne, "Newest Elips CCV Pure Flat Shaped Rechargeable Double Electronic Cigarettes E-Cigarette Set," YouTube Video published on 09/11/2013, https://www.youtube.com/watch?v=ZkQe9xztu44 (year 2013)	

Examiner Signature		Date Considered	

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

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

Submission 1 of 2

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	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US

CONFIRMATION NO. 6248

148514
Mintz/JUUL
One Financial Center
Boston, MA 02111

PUBLICATION NOTICE

OC000000125246893

Title:VAPORIZER

Publication No.US-2021-0120871-A1
Publication Date:04/29/2021

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

NJOY Exhibit 1007.178

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S209	13	"14196729"	US-PGPUB; USPAT	OR	ON	2022/03/02 10:30
S210	830	a24f40/$.cpc. and translucen$3	US-PGPUB; USPAT	OR	ON	2022/03/02 13:52
S211	1,476	a24f40/$.cpc. and (illuminat$3 led light) near9 (insert$3 attach$4 connect$3 coupl$3)	US-PGPUB; USPAT	OR	ON	2022/03/03 12:22
S212	719	a24f40/$.cpc. and (illuminat$3 led light) same (transparent translucent)	US-PGPUB; USPAT	OR	ON	2022/03/03 13:06
S213	1,155	a24f40/$.cpc. and "snap fit"	US-PGPUB; USPAT	OR	ON	2022/03/03 14:33
S215	939	a24f40/$.cpc. and ("2015" "2014" "2013" "2012" "2011" "2010").py.	US-PGPUB; USPAT	OR	ON	2022/03/03 15:38
S216	17	S215 and metal$3 with magnet$5	US-PGPUB; USPAT	OR	ON	2022/03/03 15:38
S219	70	S215 and suction$3 with (pressure pressuriz$5)	US-PGPUB; USPAT	OR	ON	2022/03/03 15:42
S221	492	a24f40/$.cpc. and suction$3 near7 (fit coupl$3 attach$4 connect$3)	US-PGPUB; USPAT	OR	ON	2022/03/03 15:44
S222	50	a24f40/$.cpc. and (suctioned suctioning)	US-PGPUB; USPAT	OR	ON	2022/03/03 15:47
S223	591	a24f40/$.cpc. and (pressuriz$3 pressuris$3)	US-PGPUB; USPAT	OR	ON	2022/03/03 15:49
S226	166	a24f.cpcl. and (pressuriz$3 pressuris$3 pressure) with (interference friction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2022/03/03 16:47
S227	123	a24f.cpcl. and suction near9 (fit fitted fitting)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2022/03/03 16:51
S228	288	a24f.cpcl. and (pressuriz$3 pressuris$3 pressure) near9 (fit fitted fitting)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2022/03/03 16:53

S230	76	a24f.cpcl. and (pressuriz$3 pressuris$3) near9 (connect$4 attach$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2022/03/03 16:56
S231	49	a24f.cpcl. and (pressuriz$3 pressuris$3) near9 (held secur$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2022/03/03 16:57
S232	292	a24f40/$.cpc. and ("2015" "2014" "2013" "2012" "2011" "2010").py. and align$5	US-PGPUB; USPAT	OR	ON	2022/03/04 09:15
S233	18	yaary.xp. and verleur and align$5	US-PGPUB; USPAT	OR	ON	2022/03/04 09:18
S234	3	yaary.xp. and verleur and align$5.clm.	US-PGPUB; USPAT	OR	ON	2022/03/04 09:18
S235	157	a24f40/$.cpc. and (correct proper) near5 orientation	US-PGPUB; USPAT	OR	ON	2022/03/04 13:01
S237	512	a24f40/$.cpc. and (proper$2 correct$2) near5 align$5	US-PGPUB; USPAT	OR	ON	2022/03/04 13:33
S238	696	a24f40/$.cpc. and "friction fit"	US-PGPUB; USPAT	OR	ON	2022/03/06 13:34

EAST Search History (Interference)

<This search history is empty>

3/7/2022 9:26:31 AM
C:\Users\eyaary\Documents\EAST\Workspaces\14196729.wsp

Application No.: 17/095,567

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of:
Jan Andries Verleur et al.

Application No.: 17/095,567	Confirmation No.: 6248
Filed: November 11, 2020	Art Unit: 1747
For: VAPORIZER	Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

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

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08 submissions. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted. In accordance with 37 C.F.R. § 1.98(d)(1) and as noted by a double-asterisk next to the Cite No. on the attached PTO/SB/08, copies of the noted references are not supplied because they were previously cited by or submitted to the Office in prior application number 14/201,267 filed March 7, 2014 and relied on in the above-identified application for an earlier effective filing date under 35 U.S.C. § 120. Submitted herewith are copies of at least one foreign patent reference in accordance with 37 C.F.R. § 1.98(a)(2).

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

NJOY Exhibit 1007.181

Application No.: 17/095,567

In accordance with 37 C.F.R. § 1.56(a)(1), Applicant hereby notes that the first of the two attached PTO/SB/08 submissions includes references cited in USPTO Office Actions and/or search reports of a foreign patent office in related applications. Applicant hereby provides the Office with the following chart of related, pending or patented US applications:

U.S. App No.	Filing Date	Publication or Patent No.
14/196,729	Mar 4, 2014	US 10,039,321
14/539,801	Nov 12, 2014	US 10,085,481
14/790,566	Jul 2, 2015	US 2015-0305409
14/201,267	Mar 7, 2014	US 10,842,191
16/119,359	Aug 31, 2018	US 2018-0368481
16/179,829	Nov 2, 2018	US 10,653,186
16/181,316	Nov 5, 2018	US 10,667,561
16/193,994	Nov 16, 2018	US 10,736,360
16/193,943	Nov 16, 2018	US 2019-0082740
15/036,292	Nov 12, 2014	US 2016-0278436

In accordance with 37 CFR § 1.56(a)(2) and MPEP 2004, Applicant hereby notes that the second of the two attached PTO/SB/08 submissions includes references which the Applicant believes may also include relevant information over which the pending claims patentably defines.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references. The Examiner is also requested to consider the references that have already been considered in parent application US 14/201,267, to which the above-identified continuation application claims the benefit under 35 U.S.C. § 120. See MPEP 609.02.

/ERIC YAARY/ 03/07/2022

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

NJOY Exhibit 1007.182

Any fees believed to be due have been paid herewith. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed, or which should have been filed herewith to our Deposit Account No. 50-0311, under Order No. 17/095,567.

Respectfully submitted,

Dated: April 9, 2021

Electronic signature: /mdvl/
Michael D. Van Loy
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MINTZ LEVIN COHN FERRIS GLOVSKY
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

NJOY Exhibit 1007.183

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/095,567	Verleur et al.
	Examiner	Art Unit
	ERIC YAARY	1747

CPC - Searched*		
Symbol	Date	Examiner
A24F 40/All	03/03/2022	EY

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* 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
EAST	03/03/2022	EY

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

NJOY Exhibit 1007.184

Notice of References Cited	Application/Control No. 17/095,567	Applicant(s)/Patent Under Reexamination Verleur et al.	
	Examiner ERIC YAARY	Art Unit 1747	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-20150020832-A1	01-2015	Greim; Olivier	A24F40/65	131/329
*	B	US-20140034071-A1	02-2014	Levitz; Robert	A61M15/06	131/329
*	C	US-20140332019-A1	11-2014	Liu; Qiuming	A24F40/50	392/404
*	D	US-20150181930-A1	07-2015	Liu; Qiuming	A24F40/40	131/329
*	E	US-20130192617-A1	08-2013	Thompson; Spencer	A24F40/44	131/329
	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.

NJOY Exhibit 1007.185

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.
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US	6248

148514 7590 03/10/2022

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER	
YAARY, ERIC	

ART UNIT	PAPER NUMBER
1747	

NOTIFICATION DATE	DELIVERY MODE
03/10/2022	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):

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com
mintzdocketing@cpaglobal.com

NJOY Exhibit 1007.186

Office Action Summary	Application No. 17/095,567	Applicant(s) Verleur et al.	
	Examiner ERIC YAARY	Art Unit 1747	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 1/10/2021.

☐ 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) 10-29 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) 10-29 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 11/11/2020 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 4/9/2021; 4/9/2021; 4/9/2021.

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

4) ☐ Other: _____.

NJOY Exhibit 1007.187

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

2. Claims 24, 25, 27, and 28 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Newton (US 2013/0228191).

3. Regarding claim 24, Newton [Fig. 7] teaches cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising: a cartomizer body 12 [0032] configured to hold a vaporizable substance 44 [0039], wherein the vaporizable substance is in a fluid state; a heating element 32 within the cartomizer body [0036]; cartomizer electrical contacts 14/22 operable to direct current to the heating element [0037]; and a wicking element 37 inside the cartomizer body, the wicking element configured to absorb the vaporizable substance [0040]; an inhalation tube 36 in fluid communication with the heating element and the wicking element [0040]; and a mouthpiece 4 at the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube. Regarding the limitation of "the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device", the cartomizer of Newton is capable of being used in the same manner. The battery portion/chamber/outer shell are not positively recited limitations, but rather are directed to intended use with the cartomizer.

4. Regarding claim 25, Newton teaches at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance [0045].

5. **Regarding claim 27,** Newton teaches the vaporizable substance comprises a liquid comprising nicotine [0004].

6. **Regarding claim 28,** the cartomizer electrical contacts of Newton are positioned such that they are interpreted as being capable of contacting a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber. The battery portion/chamber/outer shell are not positively recited limitations, but rather are directed to intended use with the cartomizer.

7. **Claims 24 and 26-28 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Qiu (US 2012/0199663).**

8. Qiu [Fig. 1-2] teaches a cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising: a cartomizer body 10 configured to hold a vaporizable substance, wherein the vaporizable substance is in a fluid state [0030], wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device; a heating element 311 within the cartomizer body [0034]; cartomizer electrical contacts 331 on an exterior of the cartomizer body, positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber, and operable to direct current to the heating element [0039]; and a wicking element 320 inside the cartomizer body, the wicking element configured to absorb the vaporizable substance; an inhalation tube (central portion of front cover 11 [0029]) in fluid communication with the heating element and the wicking element; and a mouthpiece 12 at the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube. As the claims only recite a cartomizer body configured to hold a vaporizable substance, without positively recited the vaporizable substance itself, the cartomizer of body of Qiu is capable of, i.e. configured to, holding a liquid comprising nicotine.

Claim Rejections - 35 USC § 103

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

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 10, 11, 16, and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Qiu (US 2012/0199663) in view of Newton (US 2013/0228191).

11. **Regarding claims 10 and 11,** Qiu [Fig. 1-2] teaches a cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising: a cartomizer body 10 configured to hold a fluid vaporizable substance; a heating element 311 and a wicking element 320 [0034] within the cartomizer body; an inhalation tube (central portion of front cover 11 [0029]) in fluid communication with the heating element and the wicking element [0039]; a mouthpiece 12 at the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube; and a plurality of cartomizer electrical contacts 331 on an exterior of the insertion end [0036]. Regarding the limitations of "the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device" and "the plurality of cartomizer electrical contacts is positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber", the cartomizer of Qiu is capable of being used in the claimed manner, thereby reading on these limitations. The battery portion/chamber/outer shell are not positively recited limitations, but rather are directed to intended use with the cartomizer.

12. Qiu does not teach wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance. Newton teaches a cartomizer body comprises a plastic translucent material configured to allow viewing of the fluid vaporizable

substance [0045], which would have been obvious to one of ordinary skill in the art to use with the cartomizer of Qiu for this reason, allowing viewing of the fluid vaporizable substance.

13. **Regarding claims 16 and 17,** the inhalation tube of Qiu is fluid communication with air inlet 333 [0036; Fig. 1-2]. Thus the inhalation tube is capable of being in fluid communication with one or more holes or ducts provided inside of the outer shell when the cartomizer body is inserted into the chamber. The plurality of cartomizer electrical are capable to at least partially compress the plurality of battery electrical contacts when the cartomizer body is inserted into the chamber. The battery portion/chamber/outer shell/battery electrical contacts are not positively recited limitations, but rather are directed to intended use with the cartomizer.

14. **Regarding claims 19-21,** modified Qiu teaches the cartomizer of claim 10. Qiu [Fig. 3] further discloses a vaporizer device comprising a battery portion, the battery portion having a first end and a second end and comprising: a battery housing segment proximate the first end of the battery portion; and a cartomizer receiving segment proximate the second end of the battery portion, the cartomizer receiving segment comprising the chamber, wherein outer shell 41 is commonly shared by the battery housing segment and the cartomizer receiving segment, and further comprising a rechargeable battery 42 in the battery housing segment [0037, 0057].

15. Claim 12 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu and Newton as applied to claim 10 above, and further in view of Liu (US 2015/0181930).

16. Modified Qiu does not teach the portion of the cartomizer body composed of the translucent material is proximate to LED lights. However, this configuration is known in the art as taught by Liu [0019] and would have been obvious to one of ordinary skill in the art to apply to the cartomizer of modified Qiu for the aesthetic effect. The LED lights would be capable of illuminating the cartomizer body as the cartomizer body is inserted into the chamber.

17. **Claim 13 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu and Newton as applied to claim 10 above, and further in view of Thompson (US 2013/0192617).**

18. Modified Qiu does not teach the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a snap fit connector. Thompson teaches a cartomizer comprising a snap fit connector [0024]. As this is a conventional connection mechanism known in the art, it would have been obvious to one of ordinary skill in the art to include with the cartomizer of modified Qiu to achieve predictable results.

19. **Claim 14 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu and Newton as applied to claim 10 above, and further in view of Qiuming (US 2014/0332019).**

20. Modified Qiu does not teach the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a cartomizer metallic surface configured to be attracted to at least one magnet in or proximate to the chamber. However, this configuration is known in the art as taught by Qiuming [0062] and would have been obvious to one of ordinary skill in the art to include with the cartomizer of modified Qiu to achieve predictable results, i.e. connection of the cartomizer.

21. **Claim 15 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu and Newton as applied to claim 10 above, and further in view of Levitz (US 2014/0034071).**

22. Modified Qiu does not teach the cartomizer further comprises a structure that secures the cartomizer in the chamber wherein the structure comprises a friction fit. Levitz teaches an electronic cigarette comprising a friction fit [0027]. As this is a conventional connection mechanism known in the art, it would have been obvious to one of ordinary skill in the art to include with the cartomizer of modified Qiu to achieve predictable results.

23.

24. **Claim 18 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu and Newton as applied to claim 10 above, and further in view of Greim (US 2015/0020832).**

25. Modified Qiu does not teach a structure for being secured and aligned in the chamber. However, such structures are known in the art as taught by Greim [0213] and would have been obvious to one of ordinary skill in the art to include with the cartomizer of modified Qiu to ensure correct alignment.

26. **Claim 25 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu as applied to claim 24 above, and further in view of Newton.**

27. Qiu does not teach wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance. Newton teaches a cartomizer body comprises a plastic translucent material configured to allow viewing of the fluid vaporizable substance [0045], which would have been obvious to one of ordinary skill in the art to use with the cartomizer of Qiu for this reason, allowing viewing of the fluid vaporizable substance.

Double Patenting

28. 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.

29. Claims 10-29 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-29 of U.S. Patent No. 10,736,360 in view of Newton.

30. The claims of the '360 patent teach all of the instant limitations except for an inhalation tube in fluid communication with the heating element and the wicking element. Newton teaches a cartomizer comprising an inhalation tube in fluid communication with the heating element and the wicking element [0040], which would have been obvious to one of ordinary skill in the art to include with the device of the '360 claims to achieve the predictable result of providing a passage for the vaporized substance.

Allowable Subject Matter

31. Claims 22, 23, and 29 are rejected under double patenting and objected to as being dependent upon a rejected base claim, but would be allowable upon filing of a terminal disclaimer and if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

32. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not teach or reasonably suggest including in the vaporizer of modified Qiu as applied to claim 21 above a window provided in the outer shell, and wherein the translucent portion of the cartomizer body aligns with the window when the cartomizer body is inserted into the chamber. The prior art does not teach or reasonably suggest including in the vaporizer of Newton or Qiu as applied to claimed 24 above the combination of a battery portion having a first end and a second end, the battery portion comprising: a chamber of a cartomizer receiving segment, the chamber configured for receiving the cartomizer body, the cartomizer electrical contacts, and the heating element through an opening at a distal insertion end of the battery portion; a battery segment disposed between the cartomizer receiving segment and a battery end of the battery portion opposite from the distal insertion end of the battery portion, the battery segment comprising a battery; battery electrical contacts for completing a circuit with the cartomizer electrical contacts when the cartomizer electrical contacts are received into the chamber, the battery electrical contacts being coplanar; and an outer shell forming at least part of the chamber, wherein a window is formed in the outer shell to permit viewing of the cartomizer body when the cartomizer body is received into the chamber.

Conclusion

33. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC YAARY whose telephone number is (571)272-3273. The examiner can normally be reached M-F 9-5.

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, Michael Wilson can be reached on (571)270-3882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US-10039321	08-07-2018	Verleur et al.	
	B	US-10058122	08-28-2018	Steingraber et al.	
	C	US-10058124	08-28-2018	Monsees et al.	
	D	US-10085481	10-02-2018	Verleur et al.	
	E	US-10111467	10-30-2018	Arnel et al.	
	F	US-10143233	12-04-2018	Dubief et al.	
	G	US-10195370	02-05-2019	Chen	
	H	US-20020043262-A1	04-18-2002	Langford et al.	
	I	US-20020078951-A1	06-27-2002	Nichols et al.	
	J	US-20020088469-A1	07-11-2002	Rennecamp	
	K	US-20030226837-A1	12-11-2003	Blake et al.	
	L	US-20040050382-A1	03-18-2004	Goodchild	
	M	US-20050016550-A1	01-27-2005	Katase	
	N	US-20070045288-A1	03-01-2007	Nelson	
	O	US-20070074734-A1	04-05-2007	Braunshteyn et al.	
	P	US-20070229025-A1	10-04-2007	Tsai et al.	
	Q	US-20070277816-A1	12-06-2007	Morrison et al.	
	R	US-20080023003-A1	01-31-2008	Rosenthal	
	S	US-20080029095-A1	02-07-2008	Esser	
	T	US-20080257367-A1	10-23-2008	Paterno et al.	
	U	US-20080302374-A1	12-11-2008	Wengert et al.	
	V	US-20090095287-A1	04-16-2009	Emarlou	
	W	US-20090133691-A1	05-28-2009	Yamada et al.	
	X	US-20090293892-A1	12-03-2009	Williams et al.	
	Y	US-20090302019-A1	12-10-2009	Selenski et al.	
	Z	US-20100031968-A1	02-11-2010	SHEIKH et al.	
	AA	US-20100200008-A1	08-12-2010	Taieb	
	AB	US-20110192397-A1	08-11-2011	Saskar et al.	
	AC	US-20110226266-A1	09-22-2011	Tao	
	AD	US-20110277761-A1	11-17-2011	Terry et al.	
	AE	US-20110278189-A1	11-17-2011	Terry et al.	
	AF	US-20120018529-A1	01-26-2012	Gammon et al.	
	AG	US-20120174914-A1	07-12-2012	Pirshafiey et al.	
	AH	US-20120199146-A1	08-09-2012	Marangos	
	AI	US-20120312313-A1	12-13-2012	FRIJA	
	AJ	US-20120325227-A1	12-27-2012	Robinson et al.	
	AK	US-20130014772-A1	01-17-2013	Liu	
	AL	US-20130056013-A1	03-07-2013	Terry et al.	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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	AM	US-20130087160-A1	04-11-2013	Gherghe		
	AN	US-20130174842-A1	07-11-2013	Young et al.		
	AO	US-20130182421-A1	07-18-2013	Popper et al.		
	AP	US-20130253433-A1	09-26-2013	Senior et al.		
	AQ	US-20130255702-A1	10-03-2013	Griffith, JR. et al.		
	AR	US-20130306084-A1	11-21-2013	Flick		
	AS	US-20130312742-A1	11-28-2013	MONSEES et al.		
	AT	US-20130319431-A1	12-05-2013	Cyphert et al.		
	AU	US-20130319435-A1	12-05-2013	Flick		
	AV	US-20130323941-A1	12-05-2013	Zeliff et al.		
	AW	US-20140000638-A1	01-02-2014	Sebastian et al.		
	AX	US-20140041655-A1	02-13-2014	Barron et al.		
	AY	US-20140060552-A1	03-06-2014	Cohen		
	AZ	US-20140060556-A1	03-06-2014	Liu		
	BA	US-20140096782-A1	04-10-2014	Ampolini et al.		
	BB	US-20140150785-A1	06-05-2014	Malik et al.		
	BC	US-20140158129-A1	06-12-2014	Pratt, JR. et al.		
	BD	US-20140166030-A1	06-19-2014	LI et al.		
	BE	US-20140174458-A1	06-26-2014	KATZ		
	BF	US-20140182612-A1	07-03-2014	CHEN		
	BG	US-20140190477-A1	07-10-2014	Qiu		
	BH	US-20140202454-A1	07-24-2014	Buchberger		
	BI	US-20140209109-A1	07-31-2014	Larson		
	BJ	US-20140216484-A1	08-07-2014	Liu		
	BK	US-20140224244-A1	08-14-2014	Liu		
	BL	US-20140230835-A1	08-21-2014	SALIMAN		
	BM	US-20140261487-A1	09-18-2014	Chapman et al.		
	BN	US-20140261488-A1	09-18-2014	Tucker		
	BO	US-20140261492-A1	09-18-2014	Kane et al.		
	BP	US-20140261493-A1	09-18-2014	Smith et al.		
	BQ	US-20140261499-A1	09-18-2014	Hon		
	BR	US-20140270729-A1	09-18-2014	DePiano et al.		
	BS	US-20140270730-A1	09-18-2014	DePiano et al.		
	BT	US-20140283823-A1	09-25-2014	Liu		
	BU	US-20140283859-A1	09-25-2014	Minskoff et al.		
	BV	US-20140290677-A1	10-02-2014	Liu		
	BW	US-20140299141-A1	10-09-2014	FLICK		
	BX	US-20140311503-A1	10-23-2014	Liu		
	BY	US-20140332022-A1	11-13-2014	LI et al.		
	BZ	US-20140334802-A1	11-13-2014	Dubief		
	CA	US-20140334803-A1	11-13-2014	LI et al.		
	CB	US-20140334804-A1	11-13-2014	Choi		

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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	CC	US-20140338685-A1	11-20-2014	Amir		
	CD	US-20140345631-A1	11-27-2014	Bowen et al.		
	CE	US-20140353856-A1	12-04-2014	Dubief		
	CF	US-20140355969-A1	12-04-2014	Stern		
	CG	US-20140360516-A1	12-11-2014	LIU		
	CH	US-20140366896-A1	12-18-2014	LI et al.		
	CI	US-20140373833-A1	12-25-2014	LIU		
	CJ	US-20140376895-A1	12-25-2014	Han		
	CK	US-20150007836-A1	01-08-2015	Li et al.		
	CL	US-20150013695-A1	01-15-2015	McNeal et al.		
	CM	US-20150020825-A1	01-22-2015	Galloway et al.		
	CN	US-20150027457-A1	01-29-2015	Janardhan et al.		
	CO	US-20150027460-A1	01-29-2015	Liu		
	CP	US-20150027471-A1	01-29-2015	Feldman et al.		
	CQ	US-20150034103-A1	02-05-2015	Hon		
	CR	US-20150034104-A1	02-05-2015	Zhou		
	CS	US-20150040929-A1	02-12-2015	Hon		
	CT	US-20150047658-A1	02-19-2015	Cyphert et al.		
	CU	US-20150053220-A1	02-26-2015	Levy et al.		
	CV	US-20150059787-A1	03-05-2015	Qiu		
	CW	US-20150083147-A1	03-26-2015	Schiff et al.		
	CX	US-20150090253-A1	04-02-2015	Farrow		
	CY	US-20150091501-A1	04-02-2015	Claudepierre		
	CZ	US-20150101626-A1	04-16-2015	LI et al.		
	DA	US-20150128967-A1	05-14-2015	Robinson et al.		
	DB	US-20150128977-A1	05-14-2015	LI et al.		
	DC	US-20150136158-A1	05-21-2015	Stevens et al.		
	DD	US-20150144145-A1	05-28-2015	Chang et al.		
	DE	US-20150144147-A1	05-28-2015	LI et al.		
	DF	US-20150150305-A1	06-04-2015	Shenkal		
	DG	US-20150150307-A1	06-04-2015	Liu		
	DH	US-20150157054-A1	06-11-2015	Liu		
	DI	US-20150164138-A1	06-18-2015	Liu		
	DJ	US-20150164141-A1	06-18-2015	Newton		
	DK	US-20150164142-A1	06-18-2015	Li et al.		
	DL	US-20150164146-A1	06-18-2015	LI et al.		
	DM	US-20150164147-A1	06-18-2015	Verleur et al.		
	DN	US-20150173422-A1	06-25-2015	Liu		
	DO	US-20150181940-A1	07-02-2015	Liu		
	DP	US-20150181943-A1	07-02-2015	LI et al.		
	DQ	US-20150181944-A1	07-02-2015	LI et al.		
	DR	US-20150189918-A1	07-09-2015	Liu		

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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	DS	US-20150189919-A1	07-09-2015	Liu		
	DT	US-20150201674-A1	07-23-2015	Dooly et al.		
	DU	US-20150208730-A1	07-30-2015	LI et al.		
	DV	US-20150216234-A1	08-06-2015	Chung		
	DW	US-20150216237-A1	08-06-2015	Wensley et al.		
	DX	US-20150217068-A1	08-06-2015	Wakalopulos		
	DY	US-20150223521-A1	08-13-2015	Menting et al.		
	DZ	US-20150223522-A1	08-13-2015	Ampolini et al.		
	EA	US-20150223523-A1	08-13-2015	McCullough		
	EB	US-20150224268-A1	08-13-2015	Henry et al.		
	EC	US-20150230521-A1	08-20-2015	Talon		
	ED	US-20150245659-A1	09-03-2015	DePiano et al.		
	EE	US-20150245661-A1	09-03-2015	Milin		
	EF	US-20150245669-A1	09-03-2015	CADIEUX et al.		
	EG	US-20150257441-A1	09-17-2015	Gerkin		
	EH	US-20150257444-A1	09-17-2015	CHUNG		
	EI	US-20150257445-A1	09-17-2015	Henry, Jr. et al.		
	EJ	US-20150257447-A1	09-17-2015	Sullivan		
	EK	US-20150258289-A1	09-17-2015	Henry, JR. et al.		
	EL	US-20150272217-A1	10-01-2015	Chen		
	EM	US-20150282525-A1	10-08-2015	Plojoux et al.		
	EN	US-20150282526-A1	10-08-2015	Wu		
	EO	US-20150282529-A1	10-08-2015	LI et al.		
	EP	US-20150282530-A1	10-08-2015	Johnson et al.		
	EQ	US-20150289565-A1	10-15-2015	CADIEUX et al.		
	ER	US-20150296885-A1	10-22-2015	LIU		
	ES	US-20150296888-A1	10-22-2015	Liu		
	ET	US-20150296889-A1	10-22-2015	LIU		
	EU	US-20150305407-A1	10-29-2015	LI et al.		
	EV	US-20150313282-A1	11-05-2015	Ademe et al.		
	EW	US-20150313283-A1	11-05-2015	Collett et al.		
	EX	US-20150320116-A1	11-12-2015	Bleloch et al.		
	EY	US-20150327596-A1	11-19-2015	Alarcon et al.		
	EZ	US-20150333552-A1	11-19-2015	Alarcon		
	FA	US-20150333561-A1	11-19-2015	Alarcon		
	FB	US-20150335071-A1	11-26-2015	Brinkley et al.		
	FC	US-20150335075-A1	11-26-2015	Minskoff et al.		
	FD	US-20150342255-A1	12-03-2015	Wu		
	FE	US-20150351454-A1	12-10-2015	Huang		
	FF	US-20150351455-A1	12-10-2015	LIU		
	FG	US-20150351456-A1	12-10-2015	Johnson et al.		
	FH	US-20150357608-A1	12-10-2015	Huang		

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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	FI	US-20160000147-A1	01-07-2016	LI et al.	
	FJ	US-20160007653-A1	01-14-2016	Tu	
	FK	US-20160015082-A1	01-21-2016	LIU	
	FL	US-20160021933-A1	01-28-2016	THORENS et al.	
	FM	US-20160029697-A1	02-04-2016	SHAFER	
	FN	US-20160029699-A1	02-04-2016	LI et al.	
	FO	US-20160044962-A1	02-18-2016	THORENS et al.	
	FP	US-20160044965-A1	02-18-2016	LIU	
	FQ	US-20160044966-A1	02-18-2016	LI et al.	
	FR	US-20160051716-A1	02-25-2016	Wheelock	
	FS	US-20160057811-A1	02-25-2016	Alarcon et al.	
	FT	US-20160058074-A1	03-03-2016	LIU	
	FU	US-20160073690-A1	03-17-2016	LIU	
	FV	US-20160073694-A1	03-17-2016	LIU	
	FW	US-20160081395-A1	03-24-2016	THORENS et al.	
	FX	US-20160095352-A1	04-07-2016	LIU	
	FY	US-20160106936-A1	04-21-2016	Kimmel	
	FZ	US-20160113326-A1	04-28-2016	LI et al.	
	GA	US-20160120226-A1	05-05-2016	Rado	
	GB	US-20160128384-A1	05-12-2016	LUCIANI et al.	
	GC	US-20160128388-A1	05-12-2016	LIU	
	GD	US-20160143365-A1	05-26-2016	LIU	
	GE	US-20160150824-A1	06-02-2016	MEMARI et al.	
	GF	US-20160157523-A1	06-09-2016	LIU	
	GG	US-20160198767-A1	07-14-2016	Verleur	
	GH	US-20160198768-A1	07-14-2016	Liu	
	GI	US-20160198770-A1	07-14-2016	Alarcon	
	GJ	US-20160205999-A1	07-21-2016	LIU	
	GK	US-20160219938-A1	08-04-2016	MAMOUN et al.	
	GL	US-20160242463-A1	08-25-2016	LIU	
	GM	US-20160242466-A1	08-25-2016	Lord et al.	
	GN	US-20160249682-A1	09-01-2016	LEADLEY et al.	
	GO	US-20160270442-A1	09-22-2016	Liu	
	GP	US-20160270446-A1	09-22-2016	Shenkal et al.	
	GQ	US-20160278435-A1	09-29-2016	CHOUKROUN et al.	
	GR	US-20160286865-A1	10-06-2016	KING et al.	
	GS	US-20160302471-A1	10-20-2016	BOWEN et al.	
	GT	US-20160302485-A1	10-20-2016	ALIMA	
	GU	US-20160302486-A1	10-20-2016	Eroch	
	GV	US-20160309779-A1	10-27-2016	Liu	
	GW	US-20160309789-A1	10-27-2016	Thomas, JR.	
	GX	US-20160338411-A1	11-24-2016	Liu	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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	GY	US-20160345628-A1	12-01-2016	Sabet	
	GZ	US-20160360784-A1	12-15-2016	LIU	
	HA	US-20160374393-A1	12-29-2016	CHEN	
	HB	US-20170006916-A1	01-12-2017	LIU	
	HC	US-20170013875-A1	01-19-2017	SCHENNUM et al.	
	HD	US-20170013876-A1	01-19-2017	SCHENNUM et al.	
	HE	US-20170013882-A1	01-19-2017	LIU	
	HF	US-20170013885-A1	01-19-2017	QIU	
	HG	US-20170027221-A1	02-02-2017	LIU	
	HH	US-20170035109-A1	02-09-2017	LIU	
	HI	US-20170042229-A1	02-16-2017	LIU	
	HJ	US-20170042242-A1	02-16-2017	HON	
	HK	US-20170042248-A1	02-16-2017	XIANG	
	HL	US-20170049149-A1	02-23-2017	Carty	
	HM	US-20170049152-A1	02-23-2017	LIU	
	HN	US-20170071251-A1	03-16-2017	Goch	
	HO	US-20170071256-A1	03-16-2017	VERLEUR et al.	
	HP	US-20170086501-A1	03-30-2017	BUEHLER et al.	
	HQ	US-20170099880-A1	04-13-2017	HAWES	
	HR	US-20170135401-A1	05-18-2017	DICKENS	
	HS	US-20170143038-A1	05-25-2017	DICKENS	
	HT	US-20170143040-A1	05-25-2017	LIU	
	HU	US-20170157341-A1	06-08-2017	PANDYA et al.	
	HV	US-20170164655-A1	06-15-2017	CHEN	
	HW	US-20170188629-A1	07-06-2017	DICKENS et al.	
	HX	US-20170202267-A1	07-20-2017	Liu	
	HY	US-20170207499-A1	07-20-2017	LEADLEY	
	HZ	US-20170208865-A1	07-27-2017	NETTENSTROM et al.	
	IA	US-20170208866-A1	07-27-2017	Liu	
	IB	US-20170208870-A1	07-27-2017	LIU	
	IC	US-20170214261-A1	07-27-2017	GRATTON	
	ID	US-20170215476-A1	08-03-2017	DICKENS et al.	
	IE	US-20170222468-A1	08-03-2017	SCHENNUM et al.	
	IF	US-20170224014-A1	08-10-2017	FRASER	
	IG	US-20170231284-A1	08-17-2017	NEWNS	
	IH	US-20170238611-A1	08-24-2017	BUCHBERGER	
	II	US-20170245554-A1	08-31-2017	Perez et al.	
	IJ	US-20170246405-A1	08-31-2017	WENSLEY et al.	
	IK	US-20170251725-A1	09-07-2017	BUCHBERGER et al.	
	IL	US-20170273359-A1	09-28-2017	Liu	
	IM	US-20170295847-A1	10-19-2017	Liu	
	IN	US-20170325504-A1	11-16-2017	Liu	

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	IO	US-20170347706-A1	12-07-2017	AOUN et al.	
	IP	US-3085145	04-09-1963	R.L. Wray, Jr.	
	IQ	US-3918451	11-11-1975	Steil	
	IR	US-3934117	01-20-1976	Schladitz	
	IS	US-4171000	10-16-1979	Uhle	
	IT	US-4745705	05-24-1988	Yamamoto et al.	
	IU	US-4771796	09-20-1988	Myer	
	IV	US-4793365	12-27-1988	Sensabaugh, Jr. et al.	
	IW	US-4811731	03-14-1989	Newell et al.	
	IX	US-4848374	07-18-1989	Chard et al.	
	IY	US-4947874	08-14-1990	Brooks et al.	
	IZ	US-4947875	08-14-1990	Brooks et al.	
	JA	US-4972855	11-27-1990	Kuriyama et al.	
	JB	US-4993436	02-19-1991	Bloom, Jr.	
	JC	US-5042509	08-27-1991	Banerjee et al.	
	JD	US-5117482	05-26-1992	Hauber	
	JE	US-5144962	09-08-1992	Counts et al.	
	JF	US-5261424	11-16-1993	Sprinkel, Jr.	
	JG	US-5479948	01-02-1996	Counts et al.	
	JH	US-5666977	09-16-1997	Higgins et al.	
	JI	US-5682050	10-28-1997	Williams	
	JJ	US-5865185	02-02-1999	Collins et al.	
	JK	US-6090082	07-18-2000	King et al.	
	JL	US-6155268	12-05-2000	Takeuchi	
	JM	US-6322268	11-27-2001	Kaufmann et al.	
	JN	US-6443146	09-03-2002	Voges	
	JO	US-6516796	02-11-2003	Cox et al.	
	JP	US-6532965	03-18-2003	Abhulimen et al.	
	JQ	US-6708846	03-23-2004	Fuchs et al.	
	JR	US-6772756	08-10-2004	Shayan	
	JS	US-7173222	02-06-2007	Cox et al.	
	JT	US-7318435	01-15-2008	Pentafragas	
	JU	US-7726320	06-01-2010	Robinson et al.	
	JV	US-7802569	09-28-2010	Yeates et al.	
	JW	US-7913688	03-29-2011	Cross et al.	
	JX	US-8205622	06-26-2012	Pan	
	JY	US-8251060	08-28-2012	White et al.	
	JZ	US-8365742	02-05-2013	Hon	
	KA	US-8371310	02-12-2013	Brenneise	
	KB	US-8522776	09-03-2013	Wright et al.	
	KC	US-8578942	11-12-2013	Schennum	
	KD	US-8689805	04-08-2014	Hon	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

Used in Lieu of PTO/SB/08A/B
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	KE	US-8714161	05-06-2014	Liu	
	KF	US-8752545	06-17-2014	Buchberger	
	KG	US-8794231	08-05-2014	Thorens et al.	
	KH	US-8869792	10-28-2014	Lee	
	KI	US-8881737	11-11-2014	Collett et al.	
	KJ	US-8899240	12-02-2014	Mass	
	KK	US-8910639	12-16-2014	Chang et al.	
	KL	US-8948578	02-03-2015	Buchberger	
	KM	US-8955522	02-17-2015	Bowen et al.	
	KN	US-8978663	03-17-2015	Newton	
	KO	US-8991402	03-31-2015	Bowen et al.	
	KP	US-9010335	04-21-2015	Scatterday	
	KQ	US-9055770	06-16-2015	Liu	
	KR	US-9072321	07-07-2015	Liu	
	KS	US-9072322	07-07-2015	Liu	
	KT	US-9078472	07-14-2015	Liu	
	KU	US-9078474	07-14-2015	Thompson	
	KV	US-9078475	07-14-2015	Li et al.	
	KW	US-9089168	07-28-2015	Liu	
	KX	US-9095175	08-04-2015	Terry et al.	
	KY	US-9101729	08-11-2015	Liu	
	KZ	US-9113659	08-25-2015	Liu	
	LA	US-9220302	12-29-2015	DePiano et al.	
	LB	US-9220303	12-29-2015	Li et al.	
	LC	US-9247773	02-02-2016	Memari et al.	
	LD	US-9254007	02-09-2016	Liu	
	LE	US-9277768	03-08-2016	Xiu	
	LF	US-9289014	03-22-2016	Tucker et al.	
	LG	US-9308336	04-12-2016	Newton	
	LH	US-9315890	04-19-2016	Frick et al.	
	LI	US-9326547	05-03-2016	Tucker et al.	
	LJ	US-9345541	05-24-2016	Greeley et al.	
	LK	US-9351522	05-31-2016	Safari	
	LL	US-9364800	06-14-2016	Dubief	
	LM	US-9380812	07-05-2016	Chung	
	LN	US-9386805	07-12-2016	Liu	
	LO	US-9420829	08-23-2016	Thorens et al.	
	LP	US-9420831	08-23-2016	Liu	
	LQ	US-9423152	08-23-2016	Ampolini et al.	
	LR	US-9439456	09-13-2016	Liu	
	LS	US-9456633	10-04-2016	Liu	
	LT	US-9504279	11-29-2016	Chen	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

Used in Lieu of PTO/SB/08A/B
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	LU	US-9516898	12-13-2016	Liu	
	LV	US-9526272	12-27-2016	Liu	
	LW	US-9532601	01-03-2017	Liu	
	LX	US-9555203	01-31-2017	Terry et al.	
	LY	US-9578898	02-28-2017	Liu	
	LZ	US-9591876	03-14-2017	Alima	
	MA	US-9603390	03-28-2017	Li et al.	
	MB	US-9609893	04-04-2017	Novak, III et al.	
	MC	US-9615607	04-11-2017	Liu	
	MD	US-9622511	04-18-2017	Zhu	
	ME	US-9629391	04-25-2017	Dube et al.	
	MF	US-9629394	04-25-2017	Aronie et al.	
	MG	US-9642397	05-09-2017	Dai et al.	
	MH	US-9675114	06-13-2017	Timmermans	
	MI	US-9675117	06-13-2017	Li et al.	
	MJ	US-9687027	06-27-2017	Poston et al.	
	MK	US-9687029	06-27-2017	Liu	
	ML	US-9717275	08-01-2017	Liu	
	MM	US-9717276	08-01-2017	Brammer et al.	
	MN	US-9723874	08-08-2017	Liu	
	MO	US-9723875	08-08-2017	Liu	
	MP	US-9730471	08-15-2017	Li et al.	
	MQ	US-9738622	08-22-2017	Dull et al.	
	MR	US-9743691	08-29-2017	Minskoff et al.	
	MS	US-9781953	10-10-2017	Verleur et al.	
	MT	US-9795168	10-24-2017	Zhu	
	MU	US-9801413	10-31-2017	Zhu	
	MV	US-9814263	11-14-2017	Cochand et al.	
	MW	US-9814265	11-14-2017	Rinker et al.	
	MX	US-9820508	11-21-2017	Arnel et al.	
	MY	US-9844234	12-19-2017	Thorens et al.	
	MZ	US-9861135	01-09-2018	Chen	
	NA	US-9918496	03-20-2018	Kane et al.	
	NB	US-9974743	05-22-2018	Rose et al.	
	NC	US-9986762	06-05-2018	Alarcon et al.	
	ND	US-9999250	06-19-2018	Minskoff et al.	
	NE	US-D590990	04-21-2009	Hon	
	NF	US-D675777	02-05-2013	Wu	
	NG	US-D688415	08-20-2013	Kim	
	NH	US-D718492	11-25-2014	Albanese	
	NI	US-D750320	02-23-2016	Verleur et al.	
	NJ	US-D750835	03-01-2016	Wei	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

Used in Lieu of PTO/SB/08A/B
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	NK	US-D752280	03-22-2016	Verleur et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	**A	AU-2014208287-B2	12-08-2016	Fontem Holdings 1 BV		
	**B	AU-2017202891-B2	05-30-2019	Fontem Holdings 4 BV		
	**C	CA-2641869-A1	05-06-2010	Xia, Hao Ran		
	**D	CN-101869356-A	10-27-2010	Zheqi, Liu		
	**E	CN-102727969-B	02-26-2014	Joy (changzhou) Electronic Technology Co., Ltd		
	**F	CN-201104488-Y	08-27-2008	Shenzhen Kanger Technology Cor		
	**G	CN-201430916-Y	03-31-2010	Zheqi, Liu		
	**H	CN-201781984-U	04-06-2011	Zhenlai, Chen		
	**I	CN-202004499-U	10-05-2011	Qian, He		
	**J	CN-202566289-U	12-05-2012	Liu, Xiang		
	**K	CN-202603608-U	12-19-2012	Shenzhen Kanger Technology Co.,ltd		
	**L	CN-202890462-U	04-24-2013	Shenzhen Kanger Technology Co., Ltd		
	**M	CN-203040683-U	07-10-2013	Joy (changzhou) Electronic Technology Co., Ltd		
	**N	CN-203467677-U	03-12-2014	Joyetech (changzhou) Electronic Technology Co., Ltd		
	**O	CN-203538385-U	04-16-2014	Liu, Qiuming		
	P	CN-204070533-U	01-07-2015	Shenzhen First Union Technology Co., Ltd		
	Q	CN-204120231-U	01-28-2015	Huang, Jinzhen		
	R	CN-204180941-U	03-04-2015	Shenzhen Smoore Technology Ltd		
	S	CN-204217907-U	03-25-2015	Huizhou Kimree Technology Co., Ltd		
	**T	DE-102006004484-A1	08-09-2007	Schmidt, Karsten		
	**U	DE-19619536-A1	10-30-1997	Schuckmann, Alfred Von		
	**V	EP-0358114-A2	03-14-1990	Reynolds Tobacco Co R		
	**W	EP-2614731-A1	07-17-2013	Shenzhen First Union Technology Co., Ltd		

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

Used in Lieu of PTO/SB/08A/B
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Sheet	11	of	16	Attorney Docket Number	

	**X	EP-2967154-A1	01-20-2016	Reynolds Tobacco Co R		
	**Y	GB-2264237-A	08-25-1993	Newell Robert Edward		
	**Z	GB-2266466-A	11-03-1993	Bespak PLC		
	**AA	KR-20120008751-U	12-24-2012	Kim, Dong Chun		
	**AB	KR-20120113519-A	10-15-2012	Lee, Yong Yin		
	**AC	KR-20130106741-A	09-30-2013	Lee, Yong Yin		
	**AD	KR-20130107658-A	10-02-2013	Lee, Yong Yin		
	**AE	WO-2003061716-A1	07-31-2003	Dial Corp		
	**AF	WO-2003103387-A2	12-18-2003	S.c. Johnson & Son, Inc		
	**AG	WO-2004080216-A1	09-23-2004	Best Partners Worldwide Ltd		
	**AH	WO-2008077271-A1	07-03-2008	Maas, Bernard		
	**AI	WO-2010118644-A1	10-21-2010	Technical Institute Of Physics And Chemistry, Chinese Academy Of Sciences		
	**AJ	WO-2010140841-A2	12-09-2010	Ebaco Co., Ltd		
	**AK	WO-2011125058-A1	10-13-2011	Oglesby & Butler Res & Dev Ltd		
	**AL	WO-2012043941-A1	04-05-2012	Shin, Jong-soo		
	**AM	WO-2012059726-A2	05-10-2012	Moving Sun Ltd		
	**AN	WO-2012062600-A1	05-18-2012	British American Tobacco Co		
	**AO	WO-2012173322-A1	12-20-2012	Kim, Hyoung Yun		
	**AP	WO-2013020220-A1	02-14-2013	Wisplite Technology Group Inc		
	**AQ	WO-2013040193-A2	03-21-2013	Perrigo L Co		
	**AR	WO-2013044537-A1	04-04-2013	Joyetech (changzhou) Electronics Co., Ltd		
	**AS	WO-2013068100-A1	05-16-2013	Philip Morris Prod		
	**AT	WO-2013076750-A1	05-30-2013	Montrade S R L		
	**AU	WO-2013083635-A1	06-13-2013	Philip Morris Prod		
	**AV	WO-2013089358-A1	06-20-2013	Choi, Sang Jin		
	**AW	WO-2013110208-A1	08-01-2013	Maas, Bernard		
	**AX	WO-2013110209-A1	08-01-2013	Maas, Bernard		
	**AY	WO-2013110210-A1	08-01-2013	Maas, Bernard Karel		
	**AZ	WO-2013113173-A1	08-08-2013	Maas, Bernard Karel		
	**BA	WO-2013113174-A1	08-08-2013	Maas, Bernard Karel		
	**BB	WO-2013116567-A1	08-08-2013	Altria Client Services Inc		
	**BC	WO-2013116983-A1	08-15-2013	Maas, Bernard Karel		
	**BD	WO-2013171206-A1	11-21-2013	British American Tobacco Nc Ltd		

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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	**BE	WO-2013174001-A1	11-28-2013	Shenzhen Bauway Technology Ltd		
	**BF	WO-2014047948-A1	04-03-2014	Wu, Changming		
	**BG	WO-2014071747-A1	05-15-2014	Xiu, Yunqiang		
	**BH	WO-2014101401-A1	07-03-2014	Shenzhen Happy Vaping Technology Ltd		
	**BI	WO-2014101734-A1	07-03-2014	Shenzhen Smoore Technology Ltd		
	**BJ	WO-2014110750-A1	07-24-2014	Huang, Xianhui		
	**BK	WO-2014121509-A1	08-14-2014	Liu, Qiuming		
	**BL	WO-2014127446-A1	08-28-2014	9208 8699 Québec Inc		
	**BM	WO-2014150979-A2	09-25-2014	Reynolds Tobacco Co R		
	**BN	WO-2014161181-A1	10-09-2014	Liu, Qiuming		
	**BO	WO-2014169667-A1	10-23-2014	Hubei China Tobacco Industry Co., Ltd		
	**BP	WO-2015024239-A1	02-26-2015	Kimree Hi Tech Inc		
	**BQ	WO-2015027383-A1	03-05-2015	Kimree Hi Tech Inc		
	**BR	WO-2015027435-A1	03-05-2015	Kimree Hi Tech Inc		
	**BS	WO-2015027470-A1	03-05-2015	Liu, Shuigen		
	**BT	WO-2015032093-A1	03-12-2015	Lin, Guangrong		
	**BU	WO-2015037925-A1	03-19-2015	Park, Sun Soon		
	**BV	WO-2015051538-A1	04-16-2015	Kimree Hi Tech Inc		
	**BW	WO-2015054862-A1	04-23-2015	Kimree Hi Tech Inc		
	**BX	WO-2015066136-A1	05-07-2015	Reynolds Tobacco Co R		
	**BY	WO-2015066927-A1	05-14-2015	Kimree Hi Tech Inc		
	**BZ	WO-2015070398-A1	05-21-2015	Kimree Hi Tech Inc		
	**CA	WO-2015070405-A1	05-21-2015	Kimree Hi Tech Inc		
	**CB	WO-2015071703-A1	05-21-2015	Chen, Leon		
	**CC	WO-2015074187-A1	05-28-2015	Kimree Hi Tech Inc		
	**CD	WO-2015074265-A1	05-28-2015	Kimree Hi Tech Inc		
	**CE	WO-2015079197-A1	06-04-2015	Twenty Sixteen 2016 Pharma Ltd		
	**CF	WO-2015109476-A1	07-30-2015	Shenzhen Kanger Technology Co Ltd		
	**CG	WO-2015120588-A1	08-20-2015	Kimree Hi Tech Inc		
	**CH	WO-2015120623-A1	08-20-2015	Kimree Hi Tech Inc		
	**CI	WO-2015123831-A1	08-27-2015	Kimree Hi Tech Inc		
	CJ	WO-2015143648-A1	10-01-2015	Shenzhen Kanger Technology Co Ltd		

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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	CK	WO-2015149330-A1	10-08-2015	Kimree Hi Tech Inc		
	CL	WO-2015149332-A1	10-08-2015	Kimree Hi Tech Inc		
	CM	WO-2015149406-A1	10-08-2015	Kimree Hi Tech Inc		
	CN	WO-2015154309-A1	10-15-2015	Shenzhen Kanger Technology Co Ltd		
	CO	WO-2015157891-A1	10-22-2015	Kimree Hi Tech Inc		
	CP	WO-2015157893-A1	10-22-2015	Kimree Hi Tech Inc		
	CQ	WO-2015157900-A1	10-22-2015	Kimree Hi Tech Inc		
	CR	WO-2015158548-A1	10-22-2015	Hauni Maschinenbau AG		
	CS	WO-2015161406-A1	10-29-2015	Kimree Hi Tech Inc		
	CT	WO-2015161553-A1	10-29-2015	Kimree Hi Tech Inc		
	CU	WO-2015165081-A1	11-05-2015	Kimree Hi Tech Inc		
	CV	WO-2015165086-A1	11-05-2015	Kimree Hi Tech Inc		
	CW	WO-2015165105-A1	11-05-2015	Kimree Hi Tech Inc		
	CX	WO-2015168912-A1	11-12-2015	Kimree Hi Tech Inc		
	CY	WO-2015176230-A1	11-26-2015	Kimree Hi Tech Inc		
	CZ	WO-2015176300-A1	11-26-2015	Kimree Hi Tech Inc		
	DA	WO-2015176580-A1	11-26-2015	Lin, Guangrong		
	DB	WO-2015180071-A1	12-03-2015	Kimree Hi Tech Inc		
	DC	WO-2015180088-A1	12-03-2015	Kimree Hi Tech Inc		
	DD	WO-2015184620-A1	12-10-2015	Kimree Hi Tech Inc		
	DE	WO-2015184747-A1	12-10-2015	Wang, Xiaoqiong		
	DF	WO-2015190810-A1	12-17-2015	Hwang, Il-young		
	DG	WO-2015192326-A1	12-23-2015	Kimree Hi Tech Inc		
	DH	WO-2015196332-A1	12-30-2015	Huizhou Kimree Technology Co Ltd		
	DI	WO-2016000130-A1	01-07-2016	Shenzhen Smoore Technology Ltd		
	DJ	WO-2016000136-A1	01-07-2016	Kimree Hi Tech Inc		
	DK	WO-2016000206-A1	01-07-2016	Huizhou Kimree Technology Co Ltd		
	DL	WO-2016000232-A1	01-07-2016	Liu, Qiuming		
	DM	WO-2016000233-A1	01-07-2016	Liu, Qiuming		
	DN	WO-2016015246-A1	02-04-2016	Huizhou Kimree Technology Co Ltd		
	DO	WO-2016019353-A1	02-04-2016	Mjar Holdings, LLC		
	DP	WO-2016023173-A1	02-18-2016	Liu, Shuigen		
	DQ	WO-2016023212-A1	02-18-2016	Huizhou Kimree Technology Co Ltd		

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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	DR	WO-2016026104-A1	02-25-2016	Huizhou Kimree Technology Co Ltd		
	DS	WO-2016026105-A1	02-25-2016	Shenzhen Kanger Technology Co Ltd		
	DT	WO-2016026156-A1	02-25-2016	Huizhou Kimree Technology Co Ltd		
	DU	WO-2016029567-A1	03-03-2016	Shenzhen Bauway Technology Ltd		
	DV	WO-2016033721-A1	03-10-2016	Huizhou Kimree Technology Co Ltd		
	DW	WO-2016041114-A1	03-24-2016	Huizhou Kimree Technology Co., Ltd		
	DX	WO-2016041140-A1	03-24-2016	Huizhou Kimree Technology Co.,ltd		
	DY	WO-2016041141-A1	03-24-2016	Huizhou Kimree Technology Co Ltd		
	DZ	WO-2016041207-A1	03-24-2016	Huizhou Kimree Technology Co Ltd		
	EA	WO-2016041209-A1	03-24-2016	Huizhou Kimree Technology Co Ltd		
	EB	WO-2016045058-A1	03-31-2016	Huizhou Kimree Technology Co Ltd		
	EC	WO-2016049822-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	ED	WO-2016049823-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	EE	WO-2016049855-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	EF	WO-2016054793-A1	04-14-2016	Huizhou Kimree Technology Co Ltd		
	EG	WO-2016058139-A1	04-21-2016	Huizhou Kimree Technology Co Ltd		
	EH	WO-2016059000-A1	04-21-2016	Fontem Holdings 2 BV		
	EI	WO-2016061730-A1	04-28-2016	Shenzhen Smoore Technology Ltd		
	EJ	WO-2016061822-A1	04-28-2016	Huizhou Kimree Technology Co Ltd		
	EK	WO-2016062168-A1	04-28-2016	Lin, Guangrong		
	EL	WO-2016065521-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
(Use as many sheets as necessary)				Examiner Name	Not Yet Assigned
Sheet	15	of	16	Attorney Docket Number	

	EM	WO-2016065532-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	EN	WO-2016065533-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	EO	WO-2016065596-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	EP	WO-2016065598-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	EQ	WO-2016065599-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	ER	WO-2016070553-A1	05-12-2016	Shenzhen Buddy Technology Dev Co Ltd		

Examiner Signature	/ERIC YAARY/	Date Considered	03/07/2022

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	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[2]
	**A	"New Tank E-Cigarette:innokin 510T." From China Manufacturer, Manufactory, Factory and Supplier on ECVV.com, November 15, 2011, www.ecvv.com/product/3118191.html	
	**B	chinabuye. "Innokin ITaste VV Tank Starter Kit Electronic Cigarette with Clearomizer." YouTube, YouTube, 23 July 2013, www.youtube.com/watch?v=mz414d8MU20.	
	**C	Cloud pen vaporizer unboxing review by vaporizer blog // VaporizerBlog.com, https://www.youtube.com/watch?v=ixHMkXoWKNg	
	**D	Glory Vapes. "Glory Vapes TV: Kanger S1 Cubica Series Starter Kit Unboxing." YouTube, YouTube, 8 Aug. 2013, www.youtube.com/watch?v=NQjvJ6YhdbA.	
	**E	Joye eGo-Tank System XXL 1000mAh Starter Kit, https://www.myvaporstore.com/eGo-Tank-System-XXL-1000mAh-Starter-Kit-p/ego-t-xxlkit.htm	
	**F	Uptoyou Frommeme. "Elips Ego SOLE Electronic Cigarette Kit Patent Elipse Flat Upgrade F6 Section with Atomizer CE4." YouTube, YouTube, 12 Sept. 2013, www.youtube.com/watch?v=cnPcqDzFm0Q.	
	**G	Vaporizers Reviewed. "AtmosRX Optimus 510 Vaporizer Review." YouTube, YouTube, 10 Oct. 2013, www.youtube.com/watch?v=wsyQncG8FB8.	

Submission 2 of 2

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

Used in Lieu of PTO/SB/08A/B
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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
				Examiner Name	Not Yet Assigned
Sheet	16	of	16	Attorney Docket Number	

	**H	Vaporizers Reviewed. "MicroG Pen Vaporizer Review." YouTube, YouTube, 6 Nov. 2013, www.youtube.com/watch?v=pLhtL8vosrs	

Examiner Signature	/ERIC YAARY/	Date Considered	03/07/2022

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[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

Submission 2 of 2

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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				First Named Inventor	Jan Andries Verleur
(Use as many sheets as necessary)				Art Unit	1747
				Examiner Name	Not Yet Assigned
Sheet	1	of	3	Attorney Docket Number	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US-20050134215-A1	06-23-2005	Bozzone et al.	
	B	US-20070283972-A1	12-13-2007	Monsees et al.	
	C	US-20100194337-A1	08-05-2010	OPOLKA	
	D	US-20100207576-A1	08-19-2010	Elizalde Rodarte	
	E	US-20100253279-A1	10-07-2010	Matthias	
	F	US-20110036346-A1	02-17-2011	Cohen et al.	
	G	US-20110159705-A1	06-30-2011	Schmidt	
	H	US-20110265806-A1	11-03-2011	ALARCON et al.	
	I	US-20110303231-A1	12-15-2011	LI et al.	
	J	US-20120048266-A1	03-01-2012	Alelov	
	K	US-20120199663-A1	08-09-2012	QIU	
	L	US-20120223673-A1	09-06-2012	CHEN et al.	
	M	US-20120255546-A1	10-11-2012	Goetz et al.	
	N	US-20120318882-A1	12-20-2012	Abehasera	
	O	US-20130037041-A1	02-14-2013	Worm et al.	
	P	US-20130042865-A1	02-21-2013	MONSEES et al.	
	Q	US-20130104916-A1	05-02-2013	Bellinger et al.	
	R	US-20130168880-A1	07-04-2013	DUKE	
	S	US-20130192623-A1	08-01-2013	Tucker et al.	
	T	US-20130220315-A1	08-29-2013	Conley et al.	
	U	US-20130228191-A1	09-05-2013	Newton	
	V	US-20130255675-A1	10-03-2013	Liu	
	W	US-20130284194-A1	10-31-2013	Newton	
	X	US-20130288081-A1	10-31-2013	CHENG et al.	
	Y	US-20130298905-A1	11-14-2013	Levin et al.	
	Z	US-20130333711-A1	12-19-2013	Liu	
	AA	US-20140014124-A1	01-16-2014	Glasberg et al.	
	AB	US-20140053856-A1	02-27-2014	Liu	
	AC	US-20140053857-A1	02-27-2014	Liu	
	AD	US-20140076310-A1	03-20-2014	Newton	
	AE	US-20140096781-A1	04-10-2014	Sears et al.	
	AF	US-20140123989-A1	05-08-2014	LaMothe	
	AG	US-20140150783-A1	06-05-2014	Liu	
	AH	US-20140150784-A1	06-05-2014	Liu	
	AI	US-20140182610-A1	07-03-2014	Liu	
	AJ	US-20140190496-A1	07-10-2014	Wensley et al.	
	AK	US-20140253144-A1	09-11-2014	Novak, III et al.	
	AL	US-20140261490-A1	09-18-2014	Kane	
	AM	US-20140299137-A1	10-09-2014	Kieckbusch et al.	
	AN	US-20140366898-A1	12-18-2014	MONSEES et al.	
	AO	US-20150020831-A1	01-22-2015	Weigensberg et al.	
	AP	US-20150059783-A1	03-05-2015	Liu	

Submission 1 of 2

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
(Use as many sheets as necessary)				Art Unit	1747
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	

	AQ	US-20150090256-A1	04-02-2015	CHUNG	
	AR	US-20150090278-A1	04-02-2015	Schiff et al.	
	AS	US-20150090281-A1	04-02-2015	Chen	
	AT	US-20150101625-A1	04-16-2015	Newton et al.	
	AU	US-20150118895-A1	04-30-2015	Zheng et al.	
	AV	US-20150157055-A1	06-11-2015	Lord	
	AW	US-20150208728-A1	07-30-2015	Lord	
	AX	US-20150305409-A1	10-29-2015	Verleur et al.	
	AY	US-20160278436-A1	09-29-2016	Verleur et al.	
	AZ	US-20160353804-A1	12-08-2016	LORD	
	BA	US-20170197046-A1	07-13-2017	BUCHBERGER	
	BB	US-4941236	07-17-1990	Sherman et al.	
	BC	US-5269327	12-14-1993	Counts et al.	
	BD	US-8893726	11-25-2014	Hon	
	BE	US-9498588	11-22-2016	Benassayag et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	**A	CN-201408820-Y	02-17-2010	Cixi E-cig Electronic Technology Co., Ltd		
	**B	CN-202941411-U	05-22-2013	Jiangmen City Yilong Industrial Co., Ltd		
	**C	CN-203087525-U	07-31-2013	Innokin Technology Co., Ltd		
	**D	CN-203152489-U	08-28-2013	Xiang, Zhiyong		
	**E	CN-203182012-U	09-11-2013	Ald Group Ltd		
	**F	CN-203182014-U	09-11-2013	Shenzhen Jieshibo Technology Co., Ltd		
	G	DE-102012100831-B3	02-14-2013	Snoke GmbH & Co KG		
	**H	DE-202012004792-U1	06-26-2012	Gros, Kerstin		
	**I	EP-0845220-B1	09-03-2003	Japan Tobacco Inc		
	**J	EP-2399636-A1	12-28-2011	Philip Morris Prod		
	**K	KR-200457340-Y1	12-15-2011	Chungmin Kim		
	**L	KR-20110006928-U	07-07-2011	Nam Dong-hwan		
	M	WO-2013083636-A1	06-13-2013	Philip Morris Prod		
	**N	WO-2015082560-A1	06-11-2015	Philip Morris Products SA		

Examiner Signature	/ERIC YAARY/	Date Considered	03/07/2022

Submission 1 of 2

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
				Examiner Name	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	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[2]
	**A	Uptoyou Frometne, "Newest Elips CCV Pure Flat Shaped Rechargeable Double Electronic Cigarettes E-Cigarette Set," YouTube Video published on 09/11/2013, https://www.youtube.com/watch?v=ZkQe9xztu44 (year 2013)	

Examiner Signature	/ERIC YAARY/	Date Considered	03/07/2022

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

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

Submission 1 of 2

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UNITED STATES PATENT AND TRADEMARK OFFICE

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.
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US	6248

148514 7590 06/10/2022

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER	
YAARY, ERIC	

ART UNIT	PAPER NUMBER
1747	

NOTIFICATION DATE	DELIVERY MODE
06/10/2022	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):

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com
mintzdocketing@cpaglobal.com

NJOY Exhibit 1007.216

Applicant-Initiated Interview Summary	**Application No.** 17/095,567	**Applicant(s)** Verleur et al.		
	Examiner ERIC YAARY	**Art Unit** 1747	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
ERIC YAARY	Primary Examiner	Telephonic
Elissa Kingsland	Attorney of Record	

Date of Interview: 07 June 2022

Issues Discussed:

35 U.S.C. 103

Applicant argued the combination of Qiu and Newton in the rejection of claim 10. The Examiner maintained the rejection for the reasons stated.

Proposed Amendment(s)

Applicant proposed amending claim 10 to further limit the battery portion. The Examiner indicated that this would not overcome the rejection because the battery is only recited with respect to intended use.

/ERIC YAARY/ Examiner, Art Unit 1747	

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.

NJOY Exhibit 1007.217

Electronic Acknowledgement Receipt	
EFS ID:	46153218
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55755-402C07US
Receipt Date:	11-JUL-2022
Filing Date:	11-NOV-2020
Time Stamp:	10:02:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$700
RAM confirmation Number	E20227AA02563594
Deposit Account	500311
Authorized User	Elissa Kingsland
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)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		55755_402C07US_Response_NFOA.pdf	1812942 69ae847eb7cdeb5fd69fcb776953b69cb720ed7d	yes	13

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment/Request for Reconsideration-After Non-Final Rejection	1	1
Claims	2	6
Applicant Arguments/Remarks Made in an Amendment	7	13

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	40459 b281da3befc3ca3ba6d342a76a0d2054336a0c88	no	2

Warnings:

Information:

Total Files Size (in bytes):	1853401

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.

Electronic Patent Application Fee Transmittal

Application Number:	17095567
Filing Date:	11-Nov-2020
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Elissa Marie Kingsland
Attorney Docket Number:	55755-402C07US

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:				
INDEPENDENT CLAIMS IN EXCESS OF 3	1201	1	480	480
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Extension - 1 month with $0 paid	1251	1	220	220
Miscellaneous:				
		Total in USD ($)		**700**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of:
Jan Andries Verleur, et al.

Application No.: 17/095,567	Confirmation No.: 6248
Filed: November 11, 2020	Art Unit: 1747
For: Vaporizer	Examiner: Eric Yaary

AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION UNDER 37 C.F.R. §1.111

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

Dear Commissioner:

This paper is in response to the non-final Office Action dated March 10, 2022.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 7 of this paper.

AMENDMENTS TO THE CLAIMS

1-9 (Cancelled).

10. (Currently Amended) A cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising:

a cartomizer body having a volume defined therein, the volume configured to hold a fluid vaporizable substance, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance, wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device such that at least part of the volume is positioned in the chamber when the cartomizer body is inserted into the chamber;

a heating element and a wicking element within the cartomizer body;

an inhalation tube in fluid communication with the heating element and the wicking element;

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube; and

a plurality of cartomizer electrical contacts on an exterior of the insertion end, wherein the plurality of cartomizer electrical contacts is positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

11. (Previously Presented) The cartomizer of claim 10, wherein the translucent material comprises glass or plastic.

12. (Previously Presented) The cartomizer of claim 10, wherein the portion of the cartomizer body composed of the translucent material is proximate to LED lights or fiber optics so as to illuminate the cartomizer body as the cartomizer body is inserted into the chamber.

13. (Previously Presented) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a snap fit connector.

NJOY Exhibit 1007.224

14. (Previously Presented) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a cartomizer metallic surface configured to be attracted to at least one magnet in or proximate to the chamber.

15. (Previously Presented) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a friction fit or a suction fit using a pressurized structure.

16. (Previously Presented) The cartomizer of claim 10, wherein the inhalation tube is in fluid communication with one or more holes or ducts provided inside of the outer shell when the cartomizer body is inserted into the chamber.

17. (Previously Presented) The cartomizer of claim 10, wherein the plurality of cartomizer electrical contacts is further configured to at least partially compress the plurality of battery electrical contacts when the cartomizer body is inserted into the chamber.

18. (Cancelled).

19. (Currently Amended) A vaporizer device comprising:

~~the cartomizer of claim 10 and~~ a cartomizer comprising,

a cartomizer body configured to hold a fluid vaporizable substance, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance;

a heating element and a wicking element within the cartomizer body; and

a plurality of cartomizer electrical contacts on an exterior of the insertion end; and

a battery portion, the battery portion having a first end and a second end and comprising:

a battery housing segment proximate the first end of the battery portion; and

a cartomizer receiving segment proximate the second end of the battery portion, the cartomizer receiving segment comprising ~~the~~ a chamber defined by an outer shell of the battery portion, wherein a window is provided in the outer shell, and wherein the translucent portion

NJOY Exhibit 1007.225

of the cartomizer body aligns with the window when the cartomizer body is inserted into the chamber.

20. (Previously Presented) The vaporizer device of claim 19, wherein outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment.

21. (Previously Presented) The vaporizer device of claim 19, further comprising a rechargeable battery in the battery housing segment.

22. (Cancelled).

23. (Currently Amended) The vaporizer device of ~~claim 22~~claim 19, wherein the window comprises a slit cut into the outer shell.

24. (Currently Amended) A cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising:

a cartomizer body having a volume defined therein, the volume configured to hold a vaporizable substance, wherein the vaporizable substance is in a fluid state, wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device such that at least part of the volume is positioned in the chamber when the cartomizer body is inserted into the chamber;

a heating element within the cartomizer body;

cartomizer electrical contacts operable to direct current to the heating element; and

a wicking element inside the cartomizer body, the wicking element configured to absorb the vaporizable substance;

an inhalation tube in fluid communication with the heating element and the wicking element; and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube.

25. (Previously Presented) The cartomizer of claim 24, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance.

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26. (Previously Presented) The cartomizer of claim 24, wherein the cartomizer electrical contacts are on an exterior of the cartomizer body.

27. (Previously Presented) The cartomizer of claim 24, wherein the vaporizable substance comprises a liquid comprising nicotine.

28. (Previously Presented) The cartomizer of claim 24, wherein cartomizer electrical contacts are positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

29. (Currently Amended) A vaporizer device comprising ~~the cartomizer of claim 24 and~~:

a cartomizer comprising:

a cartomizer body configured to hold a vaporizable substance, wherein the vaporizable substance is in a fluid state, wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device,

a heating element within the cartomizer body,

cartomizer electrical contacts operable to direct current to the heating element, and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube; and

a battery portion, the battery portion having a first end and a second end, the battery portion comprising:

a chamber of a cartomizer receiving segment, the chamber configured for receiving the cartomizer body, the cartomizer electrical contacts, and the heating element through an opening at a distal insertion end of the battery portion,;

a battery segment disposed between the cartomizer receiving segment and a battery end of the battery portion opposite from the distal insertion end of the battery portion, the battery segment comprising a battery;,

battery electrical contacts for completing a circuit with the cartomizer electrical contacts when the cartomizer electrical contacts are received into the chamber, the battery electrical contacts being coplanar;, and

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an outer shell forming at least part of the chamber, wherein a window is formed in the outer shell to permit viewing of the cartomizer body when the cartomizer body is received into the chamber.

30. (New) The vaporizer device of claim 19, wherein the cartomizer has a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer further comprises,

an inhalation tube in fluid communication with the heating element and the wicking element; and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube;

wherein the plurality of cartomizer electrical contacts is positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

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REMARKS

The Office Action addresses and rejects claims 10-29. Reconsideration is respectfully requested.

Interview

Applicant thanks Examiner Yarry for extending the courtesy of a telephone interview to Applicant's representative Elissa M. Kingsland on June 7, 2022. During the interview, Qui (US2012/0199663) and proposed claim amendments were discussed, but no agreement was reached.

Amendments to the Claims

Claims 18 and 22 is cancelled without prejudice or disclaimer. Claims 10, 19, 23, 24, and 29 are amended and new dependent claim 30 is added. Support for these amendments can be found throughout the specification and drawings of the application as-filed. No new matter is added.

Allowable Subject Matter

Claims 22, 23, and 29 are rejected under double patenting and objected to as being dependent upon a rejected base claim, but would be allowable upon filing of a terminal disclaimer and if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As indicated above, allowable claim 22 is incorporated into claim 19, and claim 29 is amended into independent form. Allowable claim 23 is not amended into independent form because independent claim 19, which claim 23 depends therefrom, represents allowable subject matter.

Rejection Under 35 U.S.C. § 102

Claims 24, 25, 27, and 28 are rejected under 35 U.S.C. §102(a)(2) as being anticipated by U.S. Patent Publication No. 2013/0228191 of Newton ("Newton"). Claims 24 and 26-28 are rejected under 35 U.S.C. § 102(a)(2) as being anticipated by U.S. Patent Publication No. 2012/0199663 of Qiu ("Qiu"). Applicant respectfully disagrees.

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Newton and Qiu each fail to teach or suggest "a cartomizer body having a volume defined therein, the volume configured to hold a vaporizable substance…wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device such that at least part of the volume is positioned in the chamber when the cartomizer body is inserted into the chamber," as recited in claim 24. Instead, as shown in FIG. 4b of Newton and FIG, 3 of Qui, reproduced below, the liquid reservoir 43 of Newton and the liquid storage case 21 of Qui, both of which the Office Action likened to Applicant's cartomizer body, are positioned above the power supply portion 10 of Newton and the housing 41 of Qui, respectively.

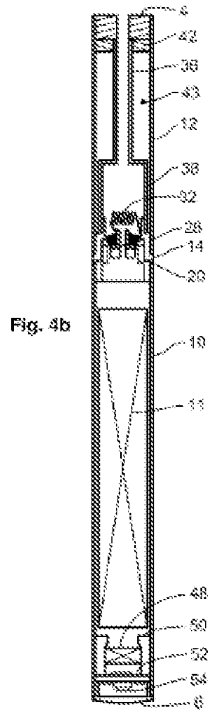


Fig. 4b

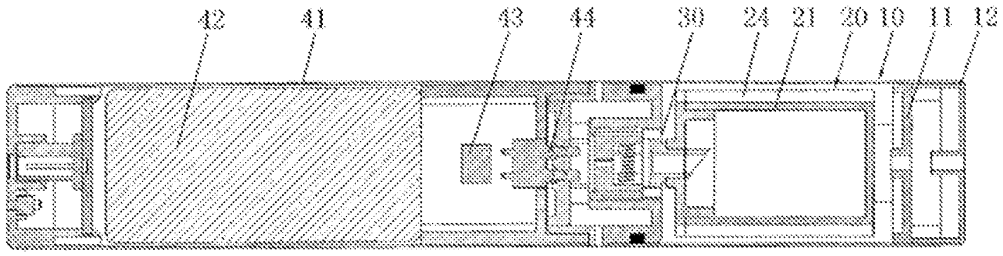


FIG. 3

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In fact, the overall structural configuration of the cartomizer bodies in Newton and Qui, and more specifically, the connector configuration of each cartomizer body, clearly renders the volumes defined within the cartomizer bodies that hold the vaporizable material incapable of being positioned within a chamber of any vaporizer device. For example, Newton teaches a threaded connection between its power supply portion 10 and the cartridge portion 12, where the top threaded portion of the power supply portion 10 is inserted into the cartomizer body. *Newton*, ¶ [0034]. Qui teaches that the main body of the atomizer 330 is inserted into the housing 41, however, if it were done in a manner such that liquid storage case 21 was positioned within the housing 41, the air inlets 333 would be blocked, thereby rendering the device inoperable. *Qui*, ¶ [0029]. As such, nothing in these references teach or suggest a cartomizer body having a volume in which at least a part of is positioned within the chamber of the vaporizer device when the cartomizer body is inserted into the chamber. Thus, these references fail to teach each and every limitation of Applicant's claimed cartridges.

Accordingly, for at least these reasons, claim 24 distinguishes over Qui and Newton, and represents allowable subject matter. Claims 25-28 depend from claim 24 and represent allowable subject matter at least because they depend from an allowable base claim. Withdrawal of this rejection is respectfully requested.

Rejection Under 35 U.S.C. § 103

Claims 10, 11, 16, 17, and 19-21 are rejected under 35 U.S.C. § 103 as being unpatentable over Qiu in view of Newton. Claim 12 is rejected under 35 U.S.C. § 103 as being upatentable over Qiu and Newton in view of U.S. Patent Publication No. 2015/0181930 of Liu ("Liu"). Claim 13 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu and Newton in view of U.S. Patent Publication No. 2013/0192617 of Thompson ("Thompson"). Claim 14 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu and Newton in view of U.S. Patent Publication No. 2014/0332019 of Qiuming ("Qiuming). Claim 15 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu and Newton in view of U.S. Patent Application No. 2014/0034071 of Levitz et al. ("Levitz"). Claim 18 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu and Newton in view of U.S. Patent Application No. 2015/0020832 of Greim et al. ("Greim"). Claim 25 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu in view of Newton. Applicant respectfully disagrees.

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Independent Claim 10

For similar reasons as discussed above for claim 24, Qui and Newton fail to teach or suggest "a cartomizer body having a volume defined therein, the volume configured to hold a fluid vaporizable substance…wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device such that at least part of the volume is positioned in the chamber when the cartomizer body is inserted into the chamber, as recited in claim 10.

Further, a person skilled in the art would not have any reason or motivation to modify the casing 10 of Qui to include a translucent material at least because the liquid storage case 20 of Qui, which liquid is stored therein, is not visible through the casing 10. In fact, such a modification would only allow the user to look onto the non-transparent sidewalls of the liquid storage case 20.

Moreover, even if the liquid storage case 20 included a transparent material, which neither reference teaches or suggests, a person skilled in the art still would not have any reason or motivation to modify the casing 10 of Qui as suggested by the Office Action. This is because it is well-known that an airflow path of a cartomizer is subject to condensing vapor and that a user sometimes breathes backwards into the airflow path, possibly secreting some saliva into it. In Newton, this is unproblematic since the inhalation tube runs in the center of the tank. *See e.g., Newton* at ¶ FIG. 4b. In Qui, however, modifying the casing 10 to include a translucent material would only allow the user to view the rather unclean airflow path. This is generally not an attractive design since it would not be appealing to the user. In addition, due to condensed vapor and possibly saliva of the user being present in the airflow path, it would inhibit a user from viewing the interior of the liquid storage case 20 regardless of whether the liquid storage case 20 included a translucent material. As such, it is clear that a person skilled in the art would not have found it desirable to modify the casing of Qui with the teachings of Newton to arrive at Applicant's claimed cartridges.

Accordingly, for at least these reasons, claim 10 distinguishes over Qui and Newton, alone or in combination, and represents allowable subject matter. Claims 11, 16, 17, and 19-21 depend from claim 10 and represent allowable subject matter at least because they depend from an allowable base claim. Withdrawal of this rejection is respectfully requested.

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Dependent Claim 12

Claim 12 depends from claim 10, which is shown above to be patentable over Qui and Newton. Liu is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 12 distinguishes over Qui, Newton, and Liu, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 13

Claim 13 depends from claim 10, which is shown above to be patentable over Qui and Newton. Thompson is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 13 distinguishes over Qui, Newton, and Thompson, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 14

Claim 14 depends from claim 10, which is shown above to be patentable over Qui and Newton. Qiuming is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 14 distinguishes over Qui, Newton, and Qiuming, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 15

Claim 15 depends from claim 10, which is shown above to be patentable over Qui and Newton. Levitz is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 15 distinguishes over Qui, Newton, and Levitz, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 18

Claim 18 depends from claim 10, which is shown above to be patentable over Qui and Newton. Greim is only relied on for dependent claim features and does not cure the above-

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discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 18 distinguishes over Qui, Newton, and Greim, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 25

Claim 25 depends from claim 21, which is shown above to be patentable over Qui. Newton is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui with respect to claim 21. Applicant thus respectfully submits that claim 25 distinguishes over Qui and Newton, alone or in combination. Withdrawal of this rejection is respectfully requested.

New Claims

New claim 30 depends from independent claim 19 and thus represents allowable subject matter at least because it depends from an allowable base claim.

Double Patenting

Claims 10-29 are rejected on the ground of non-statutory double patenting as being unpatentable over claims 1-29 of U.S. Patent No. 10,736,360 in view of Newton ("Newton").

Applicant respectfully defers the filing of a terminal disclaimer to overcome the double patenting rejection until such time the claims of the present application are allowed, in view of the claim amendments presented herein and the possibility of future claim amendments.

Conclusion

In conclusion, Applicant submits that all pending claims are now in condition for allowance, and allowance thereof is respectfully requested. Applicant's amendment of the claims does not constitute a concession that the claims are not allowable in their unamended form. The Examiner is encouraged to telephone the undersigned attorney for Applicant if such communication is deemed to expedite prosecution of this application.

The fee for a one-month extension of time pursuant to 37 C.F.R. § 1.16(i) is submitted herewith. No extension of time is believed to be due. In the event that a petition for an

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extension of time is required to be submitted at this time, Applicant hereby petitions under 37 C.F.R. § 1.136(a) for an extension of time for as many months as are required to ensure that the above-identified application does not become me abandoned.

All fees due are believed to be paid. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith to our Deposit Account No. 50-0311, Reference No.: 17/095,567, from which the undersigned is authorized to draw.

Dated: July 11, 2022

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
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Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/095,567	Filing Date 11/11/2020	☐ 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	07/11/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 3	= 1		x $480 =	480
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	480

		(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.	SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/SHANDA E ROSS/
*** 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.

Electronic Acknowledgement Receipt

EFS ID:	46228044
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55755-402C07US
Receipt Date:	20-JUL-2022
Filing Date:	11-NOV-2020
Time Stamp:	10:58:23
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	Foreign Reference	CN_1196660_A.pdf	1118842 87ee5a51225ecbb5a0c968495cf6acd745f84685	no	28

Warnings:

Information:					
2	Foreign Reference	CN_102014677_A.pdf	797673 f76ca35392cc930805cdcc8c6cf5c21afce00bb7	no	13
Warnings:					
Information:					
3	Foreign Reference	CN_201403497_Y.pdf	330750 2e731a79c8fdee5142fd31764f4decdd2c92267c	no	8
Warnings:					
Information:					
4	Foreign Reference	CN_201491720_U.pdf	384734 b9c43b37568750a5a0b953a73377bba2994563b9	no	6
Warnings:					
Information:					
5	Foreign Reference	CN_203168035_U.pdf	16407059 1b06adb28b2d14ae14a592acaf032e85a8508e01	no	20
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6	Foreign Reference	EP_2113178_A1.pdf	380397 5e37a986b33904a3c610aa2cff1e985254aa7ea5	no	14
Warnings:					
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7	Foreign Reference	EP_2489391_A1.pdf	848657 9f4e202efc5846cc8228204c2973b51284c5fbfa	no	15
Warnings:					
Information:					
8	Foreign Reference	EP_2654471_A1.pdf	762599 34cb6dcb6126a347d82a8bd9dafc3e5661dc8e23	no	14
Warnings:					
Information:					

9	Foreign Reference	KR_200454110_Y1.pdf	549242 0d6ae74f5b2b6c0bb6b579d52196bf838e1b704d	no	13
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10	Foreign Reference	KR_20120074625_A.pdf	390038 579c9dd9afbae40470e6879b2f9cf5d35dff9538	no	9
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11	Foreign Reference	TW_201315397_A.pdf	12553209 c293eb2eb14e67fb9fc0c3a3f320380a63cb7bb1	no	55
Warnings:					
Information:					
12	Foreign Reference	WO_2008138650_A1.pdf	2165807 9ac322c984baf5755133eef1992e1b288404bdde	no	39
Warnings:					
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13	Foreign Reference	WO_2009132793_A1.pdf	946082 f0de9d65fc8ccdd9f7f05ccd2a70e635b1bbc8ac	no	17
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14	Foreign Reference	WO_2011160788_A1.pdf	2023272 fe412ab63fb1935db4d2d0439ade191cf394122f	no	42
Warnings:					
Information:					
15	Foreign Reference	WO_2013025921_A1.pdf	1722926 a02b3f2a630a4b0165b2de189eab9297454307eb	no	32
Warnings:					
Information:					
			Total Files Size (in bytes):	41381287	

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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.

Used in Lieu of PTO/SB/08A/B
(Based on PTO 11-07 version)

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
				Examiner Name	Eric Yaary
Sheet	1	of	2	Attorney Docket Number	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if *known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2009272379-A1	11-05-2009	Thorens et al.	
		US-20110226236-A1	09-22-2011	Helmut Buchberger	
		US-20130213420-A1	08-22-2013	Lik Hon.	
		US-20150128976-A1	05-14-2015	Verleur et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*		Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	**	CN-100589726-C	02-17-2010	Han Li		
	**	CN-101861691-A	10-13-2010	Bosch Gmbh Robert		
		CN-102014677-A	04-13-2011	Philip Morris Prod		
		CN-1196660-A	10-21-1998	Japan Tobacco Inc		
		CN-201403497-Y	02-17-2010	Cixi E Cig Electronic Technology Co Ltd		
		CN-201491720-U	06-02-2010	De Huang Shunyao Xie		
		CN-203168035-U	09-04-2013	Kimree Technology Co., Ltd.		
	**	CN-204466899-U	07-15-2015	VMR Products, LLC		
		EP-2113178-A1	11-04-2009	Philip Morris Products SA		
		EP-2489391-A1	08-22-2012	Joyetech (changzhou) Electronics Co., Ltd.		
		EP-2654471-A1	10-30-2013	Philip Morris Products SA		
	**	EP-3456214-A1	03-20-2019	Vmr Products, LLC		
	**	EP-3469934-A1	04-17-2019	Vmr Products, LLC		
	**	KR-101011453-B1	01-28-2011	Sjn, Jong Su		
		KR-200454110-Y1	06-15-2011	Seong-Hun Yoon		
		KR-20120074625-A	07-06-2012	Lee Hi Min		
		TW-201315397-A	04-16-2013	Ploom Inc		
		WO-2008138650-A1	11-20-2008	Wang Robert		
		WO-2009132793-A1	11-05-2009	Philip Morris Prod		
		WO-2011160788-A1	12-29-2011	Philip Morris Prod		
		WO-2013025921-A1	02-21-2013	Ploom Inc		
	**	WO-2013093695-A1	06-27-2013	Sis Resources Ltd.		

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(Based on PTO 11-07 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
(Use as many sheets as necessary)				Examiner Name	Eric Yaary
Sheet	2	of	2	Attorney Docket Number	

	**	WO-2013098397-A2	07-04-2013	Philip Morris Products SA		
	**	WO-2014008646-A1	01-16-2014	Shenzhen L-rider Technology Co, Ltd.		
	**	WO-2014139609-A2	09-18-2014	Philip Morris Products SA		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	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[2]

Examiner Signature		Date Considered	

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

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

Electronic Acknowledgement Receipt	
EFS ID:	46220691
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55755-402C07US
Receipt Date:	20-JUL-2022
Filing Date:	11-NOV-2020
Time Stamp:	10:57:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$260
RAM confirmation Number	E20227JA57561518
Deposit Account	500311
Authorized User	Elissa Kingsland
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)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	55755-402C07US_SIDS.pdf	78281 dd20dbccc93f0e8a5d2f5bc7593a7ddc18dd96de	no	2
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	55755-402C07US_SB08.pdf	161175 16c3fa97b4297186bfff71dc84af7afde63722c2	no	2
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Fee Worksheet (SB06)	fee-info.pdf	37950 68a4b7b54c31eb6502910faa236e886aaa31ef22	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	277406		

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.

Electronic Patent Application Fee Transmittal

Application Number:	17095567
Filing Date:	11-Nov-2020
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Elissa Marie Kingsland/Desire' Wells
Attorney Docket Number:	55755-402C07US

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**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Jan Andries Verleur et al.

Application No.: 17/095,567	Confirmation No.: 6248
Filed: November 11, 2020	Art Unit: 1747
For: VAPORIZER	Examiner: Eric Yaary

INFORMATION DISCLOSURE STATEMENT (IDS)

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

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the filing date of this application, OR more than three months after the date of entry of the national stage in the international application, AND after the mailing date of a first Office Action on the merits, but before the mailing date of any of a Final Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311 or an action that otherwise closes prosecution in this application (37 C.F.R. § 1.97(c)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted. Submitted herewith are copies of foreign patents in accordance with 37 C.F.R. § 1.98(a)(2).

In accordance with 37 C.F.R. § 1.98(d)(1) and as noted by a double-asterisk next to the Cite No. on the attached PTO/SB/08, copies of the noted references are not supplied because they were previously cited by or submitted to the Office in prior application number 14/201,267 filed March 07, 2014 and 14/196,729 filed March 04, 2014 and relied on in the above-identified application for an earlier effective filing date under 35 U.S.C. § 120.

In accordance with 37 C.F.R. § 1.56(a)(1), Applicant hereby notes that the attached PTO/SB/08 submission includes references cited in USPTO Office Actions and/or search reports of a foreign patent office in related applications.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to the patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Any fees believed to be due have been paid herewith. However, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed, or which should have been filed herewith to our Deposit Account No. 50-0311, under Application No.: 17/095,567, from which the undersigned is authorized to draw.

Dated: July 18, 2022

Respectfully submitted,

By: /mdvl/
Michael D. Van Loy
Registration No.: 52,315
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
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Attorney for Applicant

NJOY Exhibit 1007.248

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/095,567	Verleur et al.
	Examiner	Art Unit
	ERIC YAARY	1747

CPC - Searched*		
Symbol	Date	Examiner
A24F 40/All	03/03/2022	EY

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* 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
EAST	03/03/2022	EY
PE2E Search	07/18/2022	EY

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

NJOY Exhibit 1007.249

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US	6248

148514 7590 07/25/2022

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER	
YAARY, ERIC	
ART UNIT	**PAPER NUMBER**
1747	
NOTIFICATION DATE	**DELIVERY MODE**
07/25/2022	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):

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com
mintzdocketing@cpaglobal.com

NJOY Exhibit 1007.250

Office Action Summary	Application No. 17/095,567	Applicant(s) Verleur et al.	
	Examiner ERIC YAARY	Art Unit 1747	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 7/11/2022.

☐ 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) 10-17,19-21 and 23-30 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) 10-17,19-21 and 23-30 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 _____ 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: _____.

NJOY Exhibit 1007.251

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 7/11/2022 have been fully considered but they are not persuasive.

2. Applicant argues the cartomizers of Newton and Qiu are incapable of being positioned within a chamber of a vaporizer device. The Examiner disagrees. Whether or not the cartomizer is capable of being positioned within a chamber depends on the size of the chamber. However, the chamber itself (or the outer shell and battery portion) is not positively recited by claims 10 and 24. The cartomizers of Newton and Qiu are inherently capable of being positioned in the claimed manner within a hypothetical chamber that is sufficiently large. Applicant's arguments would be persuasive if claims 10 and 24 positively recited the chamber itself, as is in claims 19 and 29 (i.e. a vaporizer device comprising a cartomizer and a battery portion...), which would thereby require the rejection to include modifying the chamber to meet the limitations. However, this is not the case based on the current language of claims 10 and 24.

Claim Rejections - 35 USC § 102

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 24, 25, 27, and 28 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Newton (US 2013/0228191).

5. Regarding claim 24, Newton [Fig. 7] teaches cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising: a cartomizer body 12 [0032] having a volume defined therein configured to hold a vaporizable substance 44 [0039], wherein the vaporizable substance is in a fluid state; a heating element 32 within the cartomizer body [0036]; cartomizer electrical contacts 14/22 operable to direct current to the heating element [0037]; and a wicking element 37 inside the cartomizer body, the wicking element configured to absorb the

vaporizable substance [0040]; an inhalation tube 36 in fluid communication with the heating element and the wicking element [0040]; and a mouthpiece 4 at the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube. Regarding the limitation of "the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device such that at least part of the volume is positioned in the chamber when the cartomizer is inserted into the chamber", the cartomizer of Newton is capable of being used in the same manner a hypothetical chamber that is sufficiently large. The battery portion/chamber/outer shell are not positively recited limitations, but rather are directed to intended use with the cartomizer.

6. **Regarding claim 25,** Newton teaches at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance [0045].

7. **Regarding claim 27,** Newton teaches the vaporizable substance comprises a liquid comprising nicotine [0004].

8. **Regarding claim 28,** the cartomizer electrical contacts of Newton are positioned such that they are interpreted as being capable of contacting a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber. The battery portion/chamber/outer shell are not positively recited limitations, but rather are directed to intended use with the cartomizer.

9. **Claims 24 and 26-28 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Qiu (US 2012/0199663).**

10. Qiu [Fig. 1-2] teaches a cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising: a cartomizer body 10 having a volume defined therein configured to hold a vaporizable substance, wherein the vaporizable substance is in a fluid state [0030], wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell

of a battery portion of a vaporizer device; a heating element 311 within the cartomizer body [0034]; cartomizer electrical contacts 331 on an exterior of the cartomizer body, positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber, and operable to direct current to the heating element [0039]; and a wicking element 320 inside the cartomizer body, the wicking element configured to absorb the vaporizable substance; an inhalation tube (central portion of front cover 11 [0029]) in fluid communication with the heating element and the wicking element; and a mouthpiece 12 at the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube. Regarding the limitation of "the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device such that at least part of the volume is positioned in the chamber when the cartomizer is inserted into the chamber", the cartomizer of Qiu is capable of being used in the same manner a hypothetical chamber that is sufficiently large. The battery portion/chamber/outer shell are not positively recited limitations, but rather are directed to intended use with the cartomizer.

Claim Rejections - 35 USC § 103

11. Claims 10, 11, 16, and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Qiu (US 2012/0199663) in view of Newton (US 2013/0228191).

12. **Regarding claims 10 and 11,** Qiu [Fig. 1-2] teaches a cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising: a cartomizer body 10 configured to hold a fluid vaporizable substance; a heating element 311 and a wicking element 320 [0034] within the cartomizer body; an inhalation tube (central portion of front cover 11 [0029]) in fluid communication with the heating element and the wicking element [0039]; a mouthpiece 12 at the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube; and a plurality of cartomizer electrical contacts 331 on an exterior of the insertion end [0036]. Regarding the limitations of "of "the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery

portion of a vaporizer device such that at least part of the volume is positioned in the chamber when the cartomizer is inserted into the chamber" and "the plurality of cartomizer electrical contacts is positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber", the cartomizer of Qiu is capable of being used in the claimed manner, thereby reading on these limitations. The battery portion/chamber/outer shell are not positively recited limitations, but rather are directed to intended use with the cartomizer.

13. Qiu does not teach wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance. Newton teaches a cartomizer body comprises a plastic translucent material configured to allow viewing of the fluid vaporizable substance [0045], which would have been obvious to one of ordinary skill in the art to use with the cartomizer of Qiu for this reason, allowing viewing of the fluid vaporizable substance.

14. **Regarding claims 16 and 17,** the inhalation tube of Qiu is fluid communication with air inlet 333 [0036; Fig. 1-2]. Thus, the inhalation tube is capable of being in fluid communication with one or more holes or ducts provided inside of the outer shell when the cartomizer body is inserted into the chamber. The plurality of cartomizer electrical are capable to at least partially compress the plurality of battery electrical contacts when the cartomizer body is inserted into the chamber. The battery portion/chamber/outer shell/battery electrical contacts are not positively recited limitations, but rather are directed to intended use with the cartomizer.

15. Claim 12 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu and Newton as applied to claim 10 above, and further in view of Liu (US 2015/0181930).

16. Modified Qiu does not teach the portion of the cartomizer body composed of the translucent material is proximate to LED lights. However, this configuration is known in the art as taught by Liu [0019] and would have been obvious to one of ordinary skill in the art to apply to the cartomizer of

modified Qiu for the aesthetic effect. The LED lights would be capable of illuminating the cartomizer body as the cartomizer body is inserted into the chamber.

17. **Claim 13 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu and Newton as applied to claim 10 above, and further in view of Thompson (US 2013/0192617).**

18. Modified Qiu does not teach the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a snap fit connector. Thompson teaches a cartomizer comprising a snap fit connector [0024]. As this is a conventional connection mechanism known in the art, it would have been obvious to one of ordinary skill in the art to include with the cartomizer of modified Qiu to achieve predictable results.

19. **Claim 14 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu and Newton as applied to claim 10 above, and further in view of Qiuming (US 2014/0332019).**

20. Modified Qiu does not teach the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a cartomizer metallic surface configured to be attracted to at least one magnet in or proximate to the chamber. However, this configuration is known in the art as taught by Qiuming [0062] and would have been obvious to one of ordinary skill in the art to include with the cartomizer of modified Qiu to achieve predictable results, i.e. connection of the cartomizer.

21. **Claim 15 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu and Newton as applied to claim 10 above, and further in view of Levitz (US 2014/0034071).**

22. Modified Qiu does not teach the cartomizer further comprises a structure that secures the cartomizer in the chamber wherein the structure comprises a friction fit. Levitz teaches an electronic cigarette comprising a friction fit [0027]. As this is a conventional connection mechanism known in the art, it would have been obvious to one of ordinary skill in the art to include with the cartomizer of modified Qiu to achieve predictable results.

23. **Claim 25 is rejected under 35 U.S.C. 103 as being unpatentable over Qiu as applied to claim 24 above, and further in view of Newton.**

24. Qiu does not teach wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance. Newton teaches a cartomizer body comprises a plastic translucent material configured to allow viewing of the fluid vaporizable substance [0045], which would have been obvious to one of ordinary skill in the art to use with the cartomizer of Qiu for this reason, allowing viewing of the fluid vaporizable substance.

Double Patenting

25. 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.

26. Claims 10-17, 19-21, and 23-30 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-29 of U.S. Patent No. 10,736,360 in view of Newton.

27. The claims of the '360 patent teach all of the instant limitations except for an inhalation tube in fluid communication with the heating element and the wicking element. Newton teaches a cartomizer comprising an inhalation tube in fluid communication with the heating element and the wicking element [0040], which would have been obvious to one of ordinary skill in the art to include with the device of the '360 claims to achieve the predictable result of providing a passage for the vaporized substance.

Allowable Subject Matter

28. Claims 19-21, 23, 29, and 30 are rejected under double patenting but would be allowable upon filing of a terminal disclaimer.

29. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not teach or reasonably suggest including in the vaporizer of modified Qiu as applied in the prior rejection a window provided in the outer shell, and wherein the translucent portion of the cartomizer body aligns with the window when the cartomizer body is inserted into the chamber. The prior art does not teach or reasonably suggest including in the vaporizer of Newton or Qiu as applied to

in the prior rejection the combination of a battery portion having a first end and a second end, the battery portion comprising: a chamber of a cartomizer receiving segment, the chamber configured for receiving the cartomizer body, the cartomizer electrical contacts, and the heating element through an opening at a distal insertion end of the battery portion; a battery segment disposed between the cartomizer receiving segment and a battery end of the battery portion opposite from the distal insertion end of the battery portion, the battery segment comprising a battery; battery electrical contacts for completing a circuit with the cartomizer electrical contacts when the cartomizer electrical contacts are received into the chamber, the battery electrical contacts being coplanar; and an outer shell forming at least part of the chamber, wherein a window is formed in the outer shell to permit viewing of the cartomizer body when the cartomizer body is received into the chamber.

Conclusion

30. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

31. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC YAARY whose telephone number is (571)272-3273. The examiner can normally be reached M-F 9-5.

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, Michael Wilson can be reached on (571)270-3882. 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.

/ERIC YAARY/
Examiner, Art Unit 1747

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L240	904	a24f40/$.cpc. and translucen$3	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:55 PM
L241	939	a24f40/$.cpc. and ("2015" "2014" "2013" "2012" "2011" "2010").py.	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:55 PM
L242	70	L215 and suction$3 with (pressure pressuriz$5)	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:55 PM
L243	783	a24f40/$.cpc. and (illuminat$3 led light) same (transparent translucent)	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:56 PM
L244	167	a24f40/$.cpc. and (correct proper) near5 orientation	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:56 PM
L245	542	a24f40/$.cpc. and (proper$2 correct$2) near5 align$5	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:56 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

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Electronic Acknowledgement Receipt	
EFS ID:	46636109
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55755-402C07US
Receipt Date:	20-SEP-2022
Filing Date:	11-NOV-2020
Time Stamp:	09:50:59
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		55755_402C07US_Response_FOA.pdf	206401 054846ce304a8f7c497ca0c48a042b98d45ccf45	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	10

Warnings:					
Information:					
2	After Final Consideration Program Request	55755_402C07US_AFCP_Form.pdf	225844 2f1924ba71b4cf093e752ebdc292513e9dc63929	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	432245		

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of:
Jan Andries Verleur, et al.

Application No.: 17/095,567	Confirmation No.: 6248
Filed: November 11, 2020	Art Unit: 1747
For: Vaporizer	Examiner: Eric Yaary

AMENDMENT AFTER FINAL OFFICE ACTION UNDER 37 C.F.R. §1.116

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

Dear Commissioner:

This paper is in response to the final Office Action dated July 25, 2022.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 7 of this paper.

An **After Final Consideration Pilot 2.0 Program Request ("AFCP 2.0 Request")** is submitted herewith.

AMENDMENTS TO THE CLAIMS

1-9 (Cancelled).

10. (Currently Amended) A vaporizer device comprising:

a battery portion having an outer shell and a chamber defined by the outer shell; and

~~A~~a cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising:

a cartomizer body having a volume defined therein, the volume configured to hold a fluid vaporizable substance, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance, wherein the cartomizer body is configured for insertion into ~~a~~ the chamber ~~defined by an outer shell of a battery portion of a vaporizer device~~ such that at least part of the volume is positioned in the chamber when the cartomizer body is inserted into the chamber;

a heating element and a wicking element within the cartomizer body;

an inhalation tube in fluid communication with the heating element and the wicking element;

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube; and

a plurality of cartomizer electrical contacts on an exterior of the insertion end, wherein the plurality of cartomizer electrical contacts is positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

11. (Previously Presented) The cartomizer of claim 10, wherein the translucent material comprises glass or plastic.

12. (Previously Presented) The cartomizer of claim 10, wherein the portion of the cartomizer body composed of the translucent material is proximate to LED lights or fiber optics so as to illuminate the cartomizer body as the cartomizer body is inserted into the chamber.

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13. (Previously Presented) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a snap fit connector.

14. (Previously Presented) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a cartomizer metallic surface configured to be attracted to at least one magnet in or proximate to the chamber.

15. (Previously Presented) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a friction fit or a suction fit using a pressurized structure.

16. (Previously Presented) The cartomizer of claim 10, wherein the inhalation tube is in fluid communication with one or more holes or ducts provided inside of the outer shell when the cartomizer body is inserted into the chamber.

17. (Previously Presented) The cartomizer of claim 10, wherein the plurality of cartomizer electrical contacts is further configured to at least partially compress the plurality of battery electrical contacts when the cartomizer body is inserted into the chamber.

18. (Cancelled).

19. (Previously Presented) A vaporizer device comprising:

a cartomizer comprising,

a cartomizer body configured to hold a fluid vaporizable substance, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance;

a heating element and a wicking element within the cartomizer body; and

a plurality of cartomizer electrical contacts on an exterior of the insertion end; and

a battery portion, the battery portion having a first end and a second end and comprising:

a battery housing segment proximate the first end of the battery portion; and

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a cartomizer receiving segment proximate the second end of the battery portion, the cartomizer receiving segment comprising a chamber defined by an outer shell of the battery portion, wherein a window is provided in the outer shell, and wherein the translucent portion of the cartomizer body aligns with the window when the cartomizer body is inserted into the chamber.

20. (Previously Presented) The vaporizer device of claim 19, wherein outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment.

21. (Previously Presented) The vaporizer device of claim 19, further comprising a rechargeable battery in the battery housing segment.

22. (Cancelled).

23. (Previously Presented) The vaporizer device of claim 19, wherein the window comprises a slit cut into the outer shell.

24. (Currently Amended) A vaporizer device comprising:

a battery portion having an outer shell and a chamber defined by the outer shell; and

~~A~~a cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising:

a cartomizer body having a volume defined therein, the volume configured to hold a vaporizable substance, wherein the vaporizable substance is in a fluid state, wherein the cartomizer body is configured for insertion into ~~a~~ the chamber ~~defined by an outer shell of a battery portion of a vaporizer device~~ such that at least part of the volume is positioned in the chamber when the cartomizer body is inserted into the chamber;

a heating element within the cartomizer body;

cartomizer electrical contacts operable to direct current to the heating element; and

a wicking element inside the cartomizer body, the wicking element configured to absorb the vaporizable substance;

an inhalation tube in fluid communication with the heating element and the wicking element; and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube.

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25. (Previously Presented) The cartomizer of claim 24, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance.

26. (Previously Presented) The cartomizer of claim 24, wherein the cartomizer electrical contacts are on an exterior of the cartomizer body.

27. (Previously Presented) The cartomizer of claim 24, wherein the vaporizable substance comprises a liquid comprising nicotine.

28. (Previously Presented) The cartomizer of claim 24, wherein cartomizer electrical contacts are positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

29. (Previously Presented) A vaporizer device comprising:

a cartomizer comprising:

a cartomizer body configured to hold a vaporizable substance, wherein the vaporizable substance is in a fluid state, wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device,

a heating element within the cartomizer body,

cartomizer electrical contacts operable to direct current to the heating element, and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube; and

a battery portion, the battery portion having a first end and a second end, the battery portion comprising:

a chamber of a cartomizer receiving segment, the chamber configured for receiving the cartomizer body, the cartomizer electrical contacts, and the heating element through an opening at a distal insertion end of the battery portion,

a battery segment disposed between the cartomizer receiving segment and a battery end of the battery portion opposite from the distal insertion end of the battery portion, the battery segment comprising a battery,

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battery electrical contacts for completing a circuit with the cartomizer electrical contacts when the cartomizer electrical contacts are received into the chamber, the battery electrical contacts being coplanar, and

an outer shell forming at least part of the chamber, wherein a window is formed in the outer shell to permit viewing of the cartomizer body when the cartomizer body is received into the chamber.

30. (Previously Presented) The vaporizer device of claim 19, wherein the cartomizer has a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer further comprises,

an inhalation tube in fluid communication with the heating element and the wicking element; and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube;

wherein the plurality of cartomizer electrical contacts is positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

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Doc Code: A.NE.AFCP
Document Description: After Final Consideration Program Request

PTO/SB/434 (3-22)

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0

Practitioner Docket No.:	Application No.:	Filing Date:
	17/095,567	November 11, 2020
First Named Inventor:	Title:	
Jan Andries Verleur	VAPORIZER	

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (*e.g.*, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).
2. The above-identified application contains an outstanding final rejection.
3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.
4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.
5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.
6. This certification and request is being filed electronically using the **USPTO's patent e**lectronic filing system.
7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]
8. By filing this certification and request, applicant acknowledges the following:

- Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
- The examiner will verify that the AFCP 2.0 submission is compliant, *i.e.*, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
  - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration **(i)** is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, by mailing an advisory action.
  - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
    - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
    - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature	Date	Practitioner Registration No.
/Elissa M. Kingsland/	September 20, 2022	63,259
Name (Print/Typed)	Telephone Number	
Elissa M. Kingsland	(617) 348-1701	

***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, see below*.*

☑ * Total of 1 forms are submitted.

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.

REMARKS

The Office Action addresses and rejects claims 10-17, 19-21, and 23-30. Reconsideration is respectfully requested.

Amendments to the Claims

Claims 10 and 22 are amended as indicated above. Support for these amendments can be found throughout the specification and drawings of the application as-filed. No new matter is added.

Allowable Subject Matter

Claims 19-21, 23, 29, and 30 are rejected under double patenting, but would be allowable upon filing of a terminal disclaimer.

Rejection Under 35 U.S.C. § 102

Claims 24, 25, 27, and 28 are rejected under 35 U.S.C. §102(a)(2) as being anticipated by U.S. Patent Publication No. 2013/0228191 of Newton ("Newton"). Claims 24 and 26-28 are rejected under 35 U.S.C. § 102(a)(2) as being anticipated by U.S. Patent Publication No. 2012/0199663 of Qiu ("Qiu").

Without conceding to the rejection, to expedite prosecution, independent claim 24 is amended as indicated above to positively recite the battery portion, the outer shell, and the chamber, as suggested by the Examiner. *See Office Action,* p. 2. Claim 24 distinguishes over Newton and Qui, and represents allowable subject matter. Claims 25-28 depend from claim 24 and represent allowable subject matter at least because they depend from an allowable base claim. Withdrawal of this rejection is respectfully requested.

Rejection Under 35 U.S.C. § 103

Claims 10, 11, 16, and 17 are rejected under 35 U.S.C. § 103 as being unpatentable over Qiu in view of Newton. Claim 12 is rejected under 35 U.S.C. § 103 as being upatentable over Qiu and Newton in view of U.S. Patent Publication No. 2015/0181930 of Liu ("Liu"). Claim 13 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu and Newton in view of U.S. Patent Publication No. 2013/0192617 of Thompson ("Thompson"). Claim 14 is rejected under 35 U.S.C. §

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103 as being unpatentable over Qiu and Newton in view of U.S. Patent Publication No. 2014/0332019 of Qiuming ("Qiuming). Claim 15 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu and Newton in view of U.S. Patent Application No. 2014/0034071 of Levitz et al. ("Levitz"). Claim 25 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu in view of Newton. Applicant respectfully disagrees.

Independent Claim 10

Without conceding to the rejection, to expedite prosecution, independent claim 10 is amended as indicated above to positively recite the battery portion, the outer shell, and the chamber, as suggested by the Examiner. *Id.* Claim 10 distinguishes over Qui and Newton, alone or in combination, and represents allowable subject matter. Claims 11, 16, and 17 depend from claim 10 and represent allowable subject matter at least because they depend from an allowable base claim. Withdrawal of this rejection is respectfully requested.

Dependent Claim 12

Claim 12 depends from claim 10, which is shown above to be patentable over Qui and Newton. Liu is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 12 distinguishes over Qui, Newton, and Liu, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 13

Claim 13 depends from claim 10, which is shown above to be patentable over Qui and Newton. Thompson is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 13 distinguishes over Qui, Newton, and Thompson, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 14

Claim 14 depends from claim 10, which is shown above to be patentable over Qui and Newton. Qiuming is only relied on for dependent claim features and does not cure the above-

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discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 14 distinguishes over Qui, Newton, and Qiuming, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 15

Claim 15 depends from claim 10, which is shown above to be patentable over Qui and Newton. Levitz is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 15 distinguishes over Qui, Newton, and Levitz, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 25

Claim 25 depends from claim 21, which is shown above to be patentable over Qui. Newton is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui with respect to claim 21. Applicant thus respectfully submits that claim 25 distinguishes over Qui and Newton, alone or in combination. Withdrawal of this rejection is respectfully requested.

Double Patenting

Claims 10-17, 19-21, and 23-30 are rejected on the ground of non-statutory double patenting as being unpatentable over claims 1-29 of U.S. Patent No. 10,736,360 in view of Newton ("Newton").

Applicant respectfully defers the filing of a terminal disclaimer to overcome the double patenting rejection until such time the claims of the present application are allowed, in view of the claim amendments presented herein and the possibility of future claim amendments.

Conclusion

In conclusion, Applicant submits that all pending claims are now in condition for allowance, and allowance thereof is respectfully requested. Applicant's amendment of the claims does not constitute a concession that the claims are not allowable in their unamended

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form. The Examiner is encouraged to telephone the undersigned attorney for Applicant if such communication is deemed to expedite prosecution of this application.

No extension of time is believed to be due. In the event that a petition for an extension of time is required to be submitted at this time, Applicant hereby petitions under 37 C.F.R. § 1.136(a) for an extension of time for as many months as are required to ensure that the above-identified application does not become me abandoned.

All fees due are believed to be paid. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith to our Deposit Account No. 50-0311, Reference No.: 17/095,567, from which the undersigned is authorized to draw.

Dated: September 20, 2022

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
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Attorney for Applicant

129657828v.1

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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 17/095,567	Filing Date 11/11/2020	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

	(Column 1)	(Column 2)			
FOR	NUMBER FILED	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	09/20/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 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".	/BRUCE D HARRISON/
*** 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.

DO NOT ENTER: /E.Y/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of:
Jan Andries Verleur, et al.

Application No.: 17/095,567	Confirmation No.: 6248
Filed: November 11, 2020	Art Unit: 1747
For: Vaporizer	Examiner: Eric Yaary

AMENDMENT AFTER FINAL OFFICE ACTION UNDER 37 C.F.R. §1.116

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

Dear Commissioner:

This paper is in response to the final Office Action dated July 25, 2022.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 7 of this paper.

An **After Final Consideration Pilot 2.0 Program Request ("AFCP 2.0 Request")** is submitted herewith.

Examiner-Initiated Interview Summary	**Application No.** 17/095,567	**Applicant(s)** Verleur et al.		
	Examiner ERIC YAARY	**Art Unit** 1747	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
ERIC YAARY	Primary Examiner	Telephonic
Elissa Kingsland	Attorney of Record	

Date of Interview: 11 October 2022

Issues Discussed:

Proposed Amendment(s)

The Examiner indicated that the proposed amendments would overcome the rejections but that claim 24 does not appear to be patentable over US 2013/0037041, and that claim 26 incorporated into amended claim 24 would put the application in condition for allowance. An agreement was not reached at this time .

/ERIC YAARY/ Examiner, Art Unit 1747	

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: It is not necessary for applicant to provide a separate record of the substance of 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.

NJOY Exhibit 1007.278

AFCP 2.0 Decision	Application No.	Applicant(s)	
	17/095,567	Verleur et al.	
	Examiner	Art Unit	AIA (FITF) Status
	ERIC YAARY	1747	Yes

This is in response to the After Final Consideration Pilot request filed 20 September 2022.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

   ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.

   ☐ A non-broadening amendment to at least one independent claim was not submitted.

   ☐ The request is not the first proper AFCP 2.0 request submitted in response to the most recent final rejection.

   ☐ Other: _____

2. **Proper Request**

   A. After final amendment submitted with the request will not be treated under AFCP 2.0.
   The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

   ☐ The after final amendment will be treated under pre-pilot procedure.

   B. Updated search and/or completed additional consideration.
   The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

   ☐ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.

   ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action . See attached interview summary for further details.

   ☑ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.

   ☐ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.

   ☐ 5. Other: _____

   Examiner Note: Please attach an interview summary when necessary as described above.

NJOY Exhibit 1007.279

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.
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US	6248

148514 7590 10/21/2022

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER	
YAARY, ERIC	

ART UNIT	PAPER NUMBER
1747	

NOTIFICATION DATE	DELIVERY MODE
10/21/2022	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):

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com
mintzdocketing@cpaglobal.com

NJOY Exhibit 1007.280

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 17/095,567	**Applicant(s)** Verleur et al.	
	Examiner ERIC YAARY	**Art Unit** 1747	**AIA (FITF) Status** Yes

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

THE REPLY FILED 20 September 2022 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☑ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☐ The period for reply expires ____ months from the mailing date of the final rejection.
   b) ☑ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection.The current period for reply expires ____ months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANTS FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37CFR 41.37(a).

AMENDMENTS

3. ☑ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☑ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: _____ (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☑ For purposes of appeal, the proposed amendment(s):(a) ☑ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____
9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☑ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
14. ☑ Other: Attached PTO-2323 and PTO-413.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed:_____.
    Claim(s) objected to:_____.
    Claim(s) rejected:10-17,19-21 and 23-30.
    Claim(s) withdrawn from consideration:_____.

/ERIC YAARY/ Examiner, Art Unit 1747	

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Continuation of REQUEST FOR RECONSIDERATION/OTHER 12. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: The Examiner indicated that the proposed amendments would overcome the rejections but that claim 24 does not appear to be patentable over US 2013/0037041, and that claim 26 incorporated into amended claim 24 would put the application in condition for allowance. An agreement was not reached at this time.

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	17095567
Filing Date	11-Nov-2020
First Named Inventor	Jan Verleur
Attorney Docket Number	55755-402C07US
Title of Invention	VAPORIZER

☒ 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
VMR PRODUCTS, LLC	100%

The owner(s) with 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 prior patent number(s)

10736360

as the term of said prior patent is presently shortened by any terminal disclaimer. 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 the prior patent 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 the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:
- 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 presently shortened by any terminal disclaimer.

◉ 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 63259 ○ 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	/Elissa M. Kingsland/
Name	Elissa M. Kingsland

*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:	17095567
Filing Date:	11-Nov-2020
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Elissa Marie Kingsland
Attorney Docket Number:	55755-402C07US

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.: 17095567

Filing Date: 11-Nov-2020

Applicant/Patent under Reexamination: Verleur

Electronic Terminal Disclaimer filed on October 25, 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:	46887084
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55755-402C07US
Receipt Date:	25-OCT-2022
Filing Date:	11-NOV-2020
Time Stamp:	16:11:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$170
RAM confirmation Number	E20220OG11253231
Deposit Account	500311
Authorized User	Elissa Kingsland
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)

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	41249 4d6e8c939071b0c9bca54035cc43673fbbe0f5bf	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37551 3821b172d3d5270480714e93a2793ea0016580af	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	78800		

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.

REMARKS

The Office Action addresses and rejects claims 10-17, 19-21, and 23-30. Reconsideration is respectfully requested.

Interview

Applicant thanks Examiner Yaary for the Examiner-Initiated Interview telephonic interview with Applicant's representative Elissa M. Kingsland on October 11, 2022. During the interview, U.S. Patent Publication No. 2013/0037041 was discussed. The Examiner indicated that claim 26 incorporated into amended claim 24 would put the application in condition for allowance. No agreement was reached.

Amendments to the Claims

Claim 26 is cancelled without prejudice or disclaimer.

Claims 10 and 24 are amended as indicated above. Support for these amendments can be found throughout the specification and drawings of the application as-filed. No new matter is added.

Entry of the amendment after final is proper at least because it requires only a cursory review by the Examiner. *See MPEP § 714.13*.

Allowable Subject Matter

Claims 19-21, 23, 29, and 30 are rejected under double patenting, but would be allowable upon filing of a terminal disclaimer.

Rejection Under 35 U.S.C. § 102

Claims 24, 25, 27, and 28 are rejected under 35 U.S.C. §102(a)(2) as being anticipated by U.S. Patent Publication No. 2013/0228191 of Newton ("Newton"). Claims 24 and 26-28 are rejected under 35 U.S.C. § 102(a)(2) as being anticipated by U.S. Patent Publication No. 2012/0199663 of Qiu ("Qiu").

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Without conceding to the rejection, to expedite prosecution, independent claim 24 is amended as indicated above to positively recite the battery portion, the outer shell, and the chamber, as suggested by the Examiner. *See Office Action,* p. 2. Claim 24 distinguishes over Newton and Qui, and represents allowable subject matter. Claims 25-28 depend from claim 24 and represent allowable subject matter at least because they depend from an allowable base claim. Withdrawal of this rejection is respectfully requested.

Further, as indicated above, during the interview the Examiner alleged that claim 24 appeared not to be patentable over U.S. Patent Publication No. 2013/0037041 of Worm et al. ("Worm"). Without conceding to the rejection, to expedite prosecution, the subject matter of claim 26 is incorporated into claim 24, as suggested by the Examiner. Claim 24 distinguishes over Worm, and represents allowable subject matter. Claims 25-28 depend from claim 24 and represent allowable subject matter at least because they depend from an allowable base claim. Withdrawal of this rejection is respectfully requested.

Rejection Under 35 U.S.C. § 103

Claims 10, 11, 16, and 17 are rejected under 35 U.S.C. § 103 as being unpatentable over Qiu in view of Newton. Claim 12 is rejected under 35 U.S.C. § 103 as being upatentable over Qiu and Newton in view of U.S. Patent Publication No. 2015/0181930 of Liu ("Liu"). Claim 13 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu and Newton in view of U.S. Patent Publication No. 2013/0192617 of Thompson ("Thompson"). Claim 14 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu and Newton in view of U.S. Patent Publication No. 2014/0332019 of Qiuming ("Qiuming). Claim 15 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu and Newton in view of U.S. Patent Application No. 2014/0034071 of Levitz et al. ("Levitz"). Claim 25 is rejected under 35 U.S.C. § 103 as being unpatentable over Qiu in view of Newton. Applicant respectfully disagrees.

Independent Claim 10

Without conceding to the rejection, to expedite prosecution, independent claim 10 is amended as indicated above to positively recite the battery portion, the outer shell, and the chamber, as suggested by the Examiner. *Id.* Claim 10 distinguishes over Qui and Newton, alone

NJOY Exhibit 1007.291

or in combination, and represents allowable subject matter. Claims 11, 16, and 17 depend from claim 10 and represent allowable subject matter at least because they depend from an allowable base claim. Withdrawal of this rejection is respectfully requested.

Dependent Claim 12

Claim 12 depends from claim 10, which is shown above to be patentable over Qui and Newton. Liu is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 12 distinguishes over Qui, Newton, and Liu, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 13

Claim 13 depends from claim 10, which is shown above to be patentable over Qui and Newton. Thompson is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 13 distinguishes over Qui, Newton, and Thompson, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 14

Claim 14 depends from claim 10, which is shown above to be patentable over Qui and Newton. Qiuming is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully submits that claim 14 distinguishes over Qui, Newton, and Qiuming, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 15

Claim 15 depends from claim 10, which is shown above to be patentable over Qui and Newton. Levitz is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui and Newton with respect to claim 10. Applicant thus respectfully

NJOY Exhibit 1007.292

submits that claim 15 distinguishes over Qui, Newton, and Levitz, alone or in any combination. Withdrawal of this rejection is respectfully requested.

Dependent Claim 25

Claim 25 depends from claim 21, which is shown above to be patentable over Qui. Newton is only relied on for dependent claim features and does not cure the above-discussed deficiencies of Qui with respect to claim 21. Applicant thus respectfully submits that claim 25 distinguishes over Qui and Newton, alone or in combination. Withdrawal of this rejection is respectfully requested.

Double Patenting

Claims 10-17, 19-21, and 23-30 are rejected on the ground of non-statutory double patenting as being unpatentable over claims 1-29 of U.S. Patent No. 10,736,360 in view of Newton ("Newton").

Without conceding to the rejection, to expedite prosecution, a terminal disclaimer for the present application over U.S. Patent No. 10,736,360 is submitted herewith. Withdrawal of this rejection is respectfully requested.

Conclusion

In conclusion, Applicant submits that all pending claims are now in condition for allowance, and allowance thereof is respectfully requested. Applicant's amendment of the claims does not constitute a concession that the claims are not allowable in their unamended form. The Examiner is encouraged to telephone the undersigned attorney for Applicant if such communication is deemed to expedite prosecution of this application.

No extension of time is believed to be due. In the event that a petition for an extension of time is required to be submitted at this time, Applicant hereby petitions under 37 C.F.R. § 1.136(a) for an extension of time for as many months as are required to ensure that the above-identified application does not become me abandoned.

NJOY Exhibit 1007.293

All fees due are believed to be paid. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith to our Deposit Account No. 50-0311, Reference No.: 17/095,567, from which the undersigned is authorized to draw.

Dated: October 25, 2022

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

130926904v.1

NJOY Exhibit 1007.294

Electronic Acknowledgement Receipt	
EFS ID:	46887172
Application Number:	17095567
International Application Number:	
Confirmation Number:	6248
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55755-402C07US
Receipt Date:	25-OCT-2022
Filing Date:	11-NOV-2020
Time Stamp:	16:04:23
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		55755_402C07US_Response_10_25_2022.pdf	209552 14c8ee9afce9bd3e9606e5df9b74956c9888f8b3	yes	11

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	11
Warnings:			
Information:			
	Total Files Size (in bytes):	209552	

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of:
Jan Andries Verleur, et al.

Application No.: 17/095,567	Confirmation No.: 6248
Filed: November 11, 2020	Art Unit: 1747
For: Vaporizer	Examiner: Eric Yaary

AMENDMENT AFTER FINAL OFFICE ACTION UNDER 37 C.F.R. §1.116

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

Dear Commissioner:

This paper is in response to the final Office Action dated July 25, 2022 and the advisory action dated October 21, 2022.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 7 of this paper.

A **Terminal Disclaimer** is submitted herewith.

AMENDMENTS TO THE CLAIMS

1-9 (Cancelled).

10. (Currently Amended) A vaporizer device comprising:

a battery portion having an outer shell and a chamber defined by the outer shell; and

~~A~~a cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising:

a cartomizer body having a volume defined therein, the volume configured to hold a fluid vaporizable substance, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance, wherein the cartomizer body is configured for insertion into ~~a~~ the chamber ~~defined by an outer shell of a battery portion of a vaporizer device~~ such that at least part of the volume is positioned in the chamber when the cartomizer body is inserted into the chamber;

a heating element and a wicking element within the cartomizer body;

an inhalation tube in fluid communication with the heating element and the wicking element;

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube; and

a plurality of cartomizer electrical contacts on an exterior of the insertion end, wherein the plurality of cartomizer electrical contacts is positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

11. (Previously Presented) The cartomizer of claim 10, wherein the translucent material comprises glass or plastic.

12. (Previously Presented) The cartomizer of claim 10, wherein the portion of the cartomizer body composed of the translucent material is proximate to LED lights or fiber optics so as to illuminate the cartomizer body as the cartomizer body is inserted into the chamber.

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13. (Previously Presented) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a snap fit connector.

14. (Previously Presented) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a cartomizer metallic surface configured to be attracted to at least one magnet in or proximate to the chamber.

15. (Previously Presented) The cartomizer of claim 10, wherein the cartomizer further comprises a structure that secures the cartomizer in the chamber, and wherein the structure comprises a friction fit or a suction fit using a pressurized structure.

16. (Previously Presented) The cartomizer of claim 10, wherein the inhalation tube is in fluid communication with one or more holes or ducts provided inside of the outer shell when the cartomizer body is inserted into the chamber.

17. (Previously Presented) The cartomizer of claim 10, wherein the plurality of cartomizer electrical contacts is further configured to at least partially compress the plurality of battery electrical contacts when the cartomizer body is inserted into the chamber.

18. (Cancelled).

19. (Previously Presented) A vaporizer device comprising:

a cartomizer comprising,

a cartomizer body configured to hold a fluid vaporizable substance, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance;

a heating element and a wicking element within the cartomizer body; and

a plurality of cartomizer electrical contacts on an exterior of the insertion end; and

a battery portion, the battery portion having a first end and a second end and comprising:

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a battery housing segment proximate the first end of the battery portion; and

a cartomizer receiving segment proximate the second end of the battery portion, the cartomizer receiving segment comprising a chamber defined by an outer shell of the battery portion, wherein a window is provided in the outer shell, and wherein the translucent portion of the cartomizer body aligns with the window when the cartomizer body is inserted into the chamber.

20. (Previously Presented) The vaporizer device of claim 19, wherein outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment.

21. (Previously Presented) The vaporizer device of claim 19, further comprising a rechargeable battery in the battery housing segment.

22. (Cancelled).

23. (Previously Presented) The vaporizer device of claim 19, wherein the window comprises a slit cut into the outer shell.

24. (Currently Amended) A vaporizer device comprising:

a battery portion having an outer shell and a chamber defined by the outer shell; and

~~A~~a cartomizer having a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer comprising:

a cartomizer body having a volume defined therein, the volume configured to hold a vaporizable substance, wherein the vaporizable substance is in a fluid state, wherein the cartomizer body is configured for insertion into ~~a~~ the chamber ~~defined by an outer shell of a battery portion of a vaporizer device~~ such that at least part of the volume is positioned in the chamber when the cartomizer body is inserted into the chamber;

a heating element within the cartomizer body;

cartomizer electrical contacts operable to direct current to the heating element, wherein the cartomizer electrical contacts are on an exterior of the cartomizer body; and

a wicking element inside the cartomizer body, the wicking element configured to absorb the vaporizable substance;

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an inhalation tube in fluid communication with the heating element and the wicking element; and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube.

25. (Previously Presented) The cartomizer of claim 24, wherein at least a portion of the cartomizer body comprises a translucent material configured to allow viewing of the fluid vaporizable substance.

26. (Cancelled).

27. (Previously Presented) The cartomizer of claim 24, wherein the vaporizable substance comprises a liquid comprising nicotine.

28. (Previously Presented) The cartomizer of claim 24, wherein cartomizer electrical contacts are positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

29. (Previously Presented) A vaporizer device comprising:

a cartomizer comprising:

a cartomizer body configured to hold a vaporizable substance, wherein the vaporizable substance is in a fluid state, wherein the cartomizer body is configured for insertion into a chamber defined by an outer shell of a battery portion of a vaporizer device,

a heating element within the cartomizer body,

cartomizer electrical contacts operable to direct current to the heating element, and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube; and

a battery portion, the battery portion having a first end and a second end, the battery portion comprising:

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a chamber of a cartomizer receiving segment, the chamber configured for receiving the cartomizer body, the cartomizer electrical contacts, and the heating element through an opening at a distal insertion end of the battery portion,

a battery segment disposed between the cartomizer receiving segment and a battery end of the battery portion opposite from the distal insertion end of the battery portion, the battery segment comprising a battery,

battery electrical contacts for completing a circuit with the cartomizer electrical contacts when the cartomizer electrical contacts are received into the chamber, the battery electrical contacts being coplanar, and

an outer shell forming at least part of the chamber, wherein a window is formed in the outer shell to permit viewing of the cartomizer body when the cartomizer body is received into the chamber.

30. (Previously Presented) The vaporizer device of claim 19, wherein the cartomizer has a mouthpiece end and an insertion end disposed opposite the mouthpiece end, the cartomizer further comprises,

an inhalation tube in fluid communication with the heating element and the wicking element; and

a mouthpiece at or proximate to the mouthpiece end, the mouthpiece in fluid communication with the inhalation tube;

wherein the plurality of cartomizer electrical contacts is positioned to contact a plurality of battery electrical contacts at a base end of the chamber when the cartomizer body is inserted into the chamber.

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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 17/095,567	Filing Date 11/11/2020	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

	(Column 1)	(Column 2)			
FOR	NUMBER FILED	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	10/25/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 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.	SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ERIC A DANTZLER/
*** 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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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NOTICE OF ALLOWANCE AND FEE(S) DUE

148514 7590 11/09/2022

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER
YAARY, ERIC

ART UNIT	PAPER NUMBER
1747	

DATE MAILED: 11/09/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US	6248

TITLE OF INVENTION: VAPORIZER

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	02/09/2023

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.

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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)

148514 7590 11/09/2022

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One Financial Center
Boston, MA 02111

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.
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US	6248

TITLE OF INVENTION: VAPORIZER

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	02/09/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
YAARY, ERIC	1747	131-329000

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. _____

PTOL-85 Part B (08-18) Approved for use through 01/31/2020 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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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.
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US	6248

148514 7590 11/09/2022

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER	
YAARY, ERIC	
ART UNIT	PAPER NUMBER
1747	

DATE MAILED: 11/09/2022

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.

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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.

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.

Notice of Allowability	**Application No.** 17/095,567	**Applicant(s)** Verleur et al.	
	Examiner ERIC YAARY	**Art Unit** 1747	**AIA (FITF) Status** Yes

-- 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 10/25/2022.
   ☐ 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 See Continuation Sheet . 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 _____.

/ERIC YAARY/
Examiner, Art Unit 1747

NJOY Exhibit 1007.308

Continuation of 3. The allowed claim(s) is/are: 10-17,19-21,23-25 and 27-30

DETAILED ACTION

Allowable Subject Matter

1. Claims 10-17, 19-21, 23-25, and 27-30 allowed.

2. The following is an examiner's statement of reasons for allowance: The prior art does not teach or reasonably suggest including in the vaporizer of modified Qiu as applied in the prior rejection a window provided in the outer shell, and wherein the translucent portion of the cartomizer body aligns with the window when the cartomizer body is inserted into the chamber. The prior art does not teach or reasonably suggest including in the vaporizer of Newton or Qiu as applied to in the prior rejection the combination of a battery portion having a first end and a second end, the battery portion comprising: a chamber of a cartomizer receiving segment, the chamber configured for receiving the cartomizer body, the cartomizer electrical contacts, and the heating element through an opening at a distal insertion end of the battery portion; a battery segment disposed between the cartomizer receiving segment and a battery end of the battery portion opposite from the distal insertion end of the battery portion, the battery segment comprising a battery; battery electrical contacts for completing a circuit with the cartomizer electrical contacts when the cartomizer electrical contacts are received into the chamber, the battery electrical contacts being coplanar; and an outer shell forming at least part of the chamber, wherein a window is formed in the outer shell to permit viewing of the cartomizer body w hen the cartomizer body is received into the chamber. US 2013/0037041 teaches all of the limitations of claims 10 and 24 excluding cartomizer electrical contacts on an exterior of the of the cartomizer, for which there is no teaching or reasonable suggestion in the prior art to make this modification.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC YAARY whose telephone number is (571)272-3273. The examiner can normally be reached M-F 9-5.

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, Michael Wilson can be reached on (571)270-3882. 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.

/ERIC YAARY/
Examiner, Art Unit 1747

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/095,567	Verleur et al.
	Examiner	Art Unit
	ERIC YAARY	1747

CPC - Searched*		
Symbol	Date	Examiner
A24F 40/All	03/03/2022	EY

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* 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
EAST	03/03/2022	EY
PE2E Search	07/18/2022	EY
Updated Search	11/02/2022	EY

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
A24F	40/40	11/02/2022	EY

NJOY Exhibit 1007.312

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/095,567	Verleur et al.
	Examiner	**Art Unit**
	ERIC YAARY	1747

CPC								
Symbol							**Type**	**Version**
A24F	/	40	/	90			F	2020-01-01
A61M	/	15	/	06			I	2013-01-01
A61M	/	11	/	042			I	2014-02-04
H02J	/	7	/	00			I	2013-01-01
A24F	/	40	/	40			I	2020-01-01
A24F	/	40	/	00			I	2020-01-01
A24F	/	40	/	44			I	2020-01-01
A24F	/	40	/	42			I	2020-01-01
A24F	/	40	/	50			I	2020-01-01
H02J	/	7	/	0042			I	2013-01-01
A61M	/	2205	/	8237			A	2013-01-01
A61M	/	2205	/	332			A	2013-01-01
A61M	/	2205	/	3368			A	2013-01-01
A61M	/	2205	/	502			A	2013-01-01
A61M	/	2205	/	584			A	2013-01-01
A61M	/	2205	/	8206			A	2013-01-01
A61M	/	15	/	0021			A	2014-02-04
H02J	/	7	/	0048			A	2020-01-01
A61M	/	2205	/	07			A	2013-01-01
A61M	/	2205	/	3633			A	2013-01-01
A61M	/	2205	/	3653			A	2013-01-01
A61M	/	2205	/	6027			A	2013-01-01
A61M	/	2205	/	6081			A	2013-01-01
A61M	/	2206	/	20			A	2013-01-01
A61M	/	2209	/	06			A	2013-01-01
A24F	/	40	/	10			A	2020-01-01
A24F	/	40	/	20			A	2020-01-01
A24F	/	40	/	53			A	2020-01-01

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/ERIC YAARY/ Examiner, Art Unit 1747	02 November 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.: 20221031

NJOY Exhibit 1007.313

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/095,567	Verleur et al.
	Examiner	**Art Unit**
	ERIC YAARY	1747

CPC Combination Sets				
Symbol	**Type**	**Set**	**Ranking**	**Version**
/ /				

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/ERIC YAARY/ Examiner, Art Unit 1747	02 November 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.: 20221031

NJOY Exhibit 1007.314

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/095,567	Verleur et al.
	Examiner	**Art Unit**
	ERIC YAARY	1747

INTERNATIONAL CLASSIFICATION					
CLAIMED					
A24F	/	47	/	00	

NON-CLAIMED					
	/		/		

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/ERIC YAARY/ Examiner, Art Unit 1747	02 November 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

NJOY Exhibit 1007.315

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/095,567	Verleur et al.
	Examiner	**Art Unit**
	ERIC YAARY	1747

☐ 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	10	9	19	16	28										
2	11	10	20	17	29										
3	12	11	21	18	30										
4	13	-	22												
5	14	12	23												
6	15	13	24												
7	16	14	25												
8	17	-	26												
-	18	15	27												

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/ERIC YAARY/ Examiner, Art Unit 1747	02 November 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

NJOY Exhibit 1007.316

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	1	"14201267"	(US-PGPUB; USPAT)	OR	ON	ON	2016/04/29 09:43 AM
L2	2	"14196729"	(US-PGPUB; USPAT)	OR	ON	ON	2016/04/29 09:45 AM
L3	249	a24f47/008.cpc. and (insert$3 receiv$3) near5 (cartridge cartomizer)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/04/29 11:12 AM
L6	1182	a24f47/008.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2016/04/29 11:44 AM
L7	231	a24f47/008.cpc. and (chamber recess$3 cavity lumen) near7 (cartridge cartomizer)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/04/29 11:46 AM
L8	726	a24f47/008.cpc. and replac$5	(US-PGPUB; USPAT)	OR	ON	ON	2016/04/29 04:33 PM
L9	125	a24f47/008.cpc. and insulat$4 and (magnet magnetic$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/04/29 04:47 PM
L12	588	a24f47/008.cpc. and (chamber recess$3 cavity lumen) near5 (insert$4 receiv$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/04/30 10:10 AM
L13	250	a24f47/008.cpc. and (rechar$3 charg$3) same contact	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/05/09 02:02 PM
L14	84	a24f47/008.cpc. and (rechar$3 charg$3) same (magnet magnetic$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/05/09 02:08 PM
L15	196	a24f47/008.cpc. and (rechar$3 charg$3).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/05/09 02:16 PM
L16	324	a24f47/008.cpc. and surface near9 contact	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/05/09 03:02 PM
L17	110	("20060093977"|"20120318882"|"20130199528"|"20130213420"|"4207457"|"4771295"|"4848374"|"4945929"|"5646666"|"5743251"|"6722763"|"8490628"|"D704634"|"20110220234"|"D260941"|"D720094"|"D720496	(US-PGPUB; USPAT)	OR	ON	ON	2016/05/13 02:19 PM

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		"|"D726364"|"20150091501"|"3203025"|"3400998"|"4771796"|"4797692"|"4990939"|"5144962"|"5505214"|"5894841"|"6062213"|"6501052"|"7143766"|"D257519"|"D722166"|"2057353"|"3200819"|"6471782"|"6620659"|"6719443"|"8365742"|"D644375"|"D693053"|"D695450"|"D248047"|"D260690"|"D724263"|"20050017685"|"2545851"|"3060429"|"5666977"|"5703633"|"5996589"|"6196218"|"D531180"|"D693765"|"D720881"|"20130152922"|"4569136"|"20130192617"|"20130220315"|"20130284190"|"20140261499"|"D720882"|"3747120"|"4676237"|"4945448"|"5819756"|"6701921"|"8375957"|"D720095"|"D722956"|"D724782"|"20140034070"|"D721202"|"3479561"|"5124200"|"5388574"|"6234167"|"D725310"|"20130042865"|"20130180533"|"20150027471"|"8955522"|"9038642"|"D251072"|"D675777"|"D729441"|"1446087"|"20080257367"|"20130298905"|"20150027467"|"3502588"|"5224265"|"5327915"|"7059307"|"8393331"|"D645816"|"D702876"|"D718492"|"D720497"|"20140041655"|"4972855"|"5060671"|"6155268"|"6322268"|"6598607"|"D624238"|"D642330"|"D720883"|"D259588"|"D688415"|"D732733").PN.					
L18	5	a24f47/008.cpc. and pogo	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/05/13 03:40 PM
L19	6525	"pogo pin"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/05/13 03:51 PM
L20	42	"pogo pin" and	(US-PGPUB; USPAT;	OR	ON	ON	2016/05/13

NJOY Exhibit 1007.318

		"320".clas.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				03:52 PM
L25	121	a24f47/008.cpc. and gold	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/05/16 10:10 AM
L26	5	a24f47/008.cpc. and wiper	(US-PGPUB; USPAT)	OR	ON	ON	2016/05/16 10:15 AM
L27	69	"320".clas. and wiper near9 contact	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2016/05/16 10:16 AM
L28	19	a24f47/008.cpc. and contact near5 slid$3	(US-PGPUB; USPAT)	OR	ON	ON	2016/05/16 10:32 AM
L29	927	a24f47/008.cpc. and electric$4 near5 (contact$3 connect$4)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/25 03:24 PM
L30	20	a24f47/008.cpc. and magnet$6 near7 insulat$5	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 10:13 AM
L31	23	a24f47/008.cpc. and magnet$6 near7 (oppos$5 polar$3)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 10:31 AM
L32	56	a24f.cpcl. and magnet$6 near7 (oppos$5 polar$3)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 10:33 AM
L33	22	a24f.cpcl. and magnet$6 near7 (negativ$3 positiv$3)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 10:37 AM
L34	1153	(magnet$6 near9 (oppos$5 near5 polar$3)) near20 align$5	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 10:43 AM
L35	601	A44D2203/00.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 12:15 PM
L36	77	L35 and north near9 south	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 12:19 PM
L37	397	a24f47/008.cpc. and (pcb "circuit board")	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 12:34 PM
L38	17	a24f47/008.cpc. and ring near9 indicat$3	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 12:40 PM
L39	211	a24f47/008.cpc. and (button switch) near7 (light illumin$5 glow$3 indicat$3 led)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 12:41 PM
L40	11	a24f47/008.cpc. and (pushbutton) near7 (light illumin$5 glow$3 indicat$3 led)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 12:49 PM
L41	34	a24f47/008.cpc. and (pcb "circuit board")	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 12:53 PM

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		near9 (button pushbutton)					
L42	183	a24f47/008.cpc. and (pcb "circuit board") same (button pushbutton press$3)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 01:01 PM
L43	143	a24f47/008.cpc. and (lcd display$3) near7 screen	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 01:29 PM
L44	98	a24f47/008.cpc. and window	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 01:43 PM
L45	669	a24f47/008.cpc. and (wire wiring) near7 (heat$3 atomiz$3)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 02:43 PM
L46	106	a24f47/008.cpc. and translucent	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 03:08 PM
L47	471	a24f47/008.cpc. and conduct$3 near5 heat$3	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 03:14 PM
L48	443	a24f47/008.cpc. and heat$3 near3 (exterior external$3 outside outer surround$3)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 03:20 PM
L49	42	a24f47/008.cpc. and ("non-conductive" (non adj conductive) nonconductive)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 03:52 PM
L50	144	a24f47/008.cpc. and (heat$3 atomiz$3) near15 (intertwin$3 dispers$3 mesh$3 woven weav$3 interlac$3 entwin$3 braid$3)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/26 03:58 PM
L51	189	a24f47/008.cpc. and sens$3 same (pcb "circuit board")	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/27 09:52 AM
L52	70	a24f47/008.cpc. and sens$3 same (pcb "circuit board") same (outside external$3 environment$4)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/27 09:54 AM
L55	415	a24f47/008.cpc. and sens$3 near5 (air airflow)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/27 02:05 PM
L56	84	a24f47/008.cpc. and sens$3 near9 (outside external$3 ambient environment$4)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/27 02:06 PM
L57	132	a24f47/008.cpc. and sens$3 near15 (cartridge cartomizer)	(US-PGPUB; USPAT)	OR	ON	ON	2016/07/27 02:14 PM
L58	365	a24f47/008.cpc. and	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28

NJOY Exhibit 1007.320

		(magnetiz$5 magnet magnetic$4)					12:12 PM
L59	78	a24f47/008.cpc. and (magnetiz$5 magnet magnetic$4) near9 (within inner interior inside)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 12:17 PM
L60	30	a24f47/008.cpc. and (magnetiz$5 magnet magnetic$4) near15 insulat$5	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 12:54 PM
L61	216	"320".clas. and (magnetiz$5 magnet magnetic$4) near15 insulat$5	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 12:57 PM
L62	209	a24f47/008.cpc. and $2charg$5 near9 (contact electrode)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 01:28 PM
L63	466	320/114-115.ccls. and (magnetiz$5 magnet magnetic$4)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 01:36 PM
L64	380	a24f47/008.cpc. and (outside outer external$2) near9 (contact electrode)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 01:44 PM
L65	191	L64 and $2charg$5 near5 (battery power)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 01:46 PM
L66	88	L63 and (outside outer external$2) near9 (contact electrode)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 01:52 PM
L67	2	"20120223673"	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 02:02 PM
L68	126	320/114-115.ccls. and (magnetiz$5 magnet magnetic$4) near9 (within inner interior inside)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 02:31 PM
L69	267	L58 and $2charg$5 near5 (battery power)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 02:45 PM
L70	459	320/114-115.ccls. and usb	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 03:31 PM
L71	232	320/107-115.ccls. and (magnetiz$5 magnet magnetic$4) same (polar$5)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 03:57 PM
L72	21	a24f47/008.cpc. and (magnetiz$5 magnet magnetic$4) same (polar$5)	(US-PGPUB; USPAT)	OR	ON	ON	2016/11/28 03:58 PM
L73	2109	H02J7/0044.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2017/03/23 12:48 PM
L76	20	a24f47/008.cpc. and magnet$3 near9	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2017/03/23 12:54 PM

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		annular$2	JPO; DERWENT; IBM_TDB)				
L78	113	a24f47/008.cpc. and magnet$3 near15 (ring concentric$4 surround$3 around circle annular$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/03/23 12:55 PM
L79	149	L73 and magnet$3 near15 (ring concentric$4 surround$3 around circle annular$2)	(US-PGPUB; USPAT)	OR	ON	ON	2017/03/23 12:58 PM
L80	3007	H02J7/0042.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2017/03/23 01:06 PM
L81	265	L80 and magnet$3 near15 (ring concentric$4 surround$3 around circle annular$2)	(US-PGPUB; USPAT)	OR	ON	ON	2017/03/23 01:06 PM
L83	174	"3808577"	(US-PGPUB; USPAT)	OR	ON	ON	2017/03/23 01:14 PM
L84	812	439/38-40.ccls.	(US-PGPUB; USPAT)	OR	ON	ON	2017/03/23 01:15 PM
L85	303	L84 and magnet$3 near15 (ring concentric$4 surround$3 around circle annular$2)	(US-PGPUB; USPAT)	OR	ON	ON	2017/03/23 01:15 PM
L86	12	a24f47/008.cpc. and qiu.in.	(US-PGPUB; USPAT)	OR	ON	ON	2017/11/02 03:45 PM
L87	140	a24f47/008.cpc. and retract$3	(US-PGPUB; USPAT)	OR	ON	ON	2017/11/02 04:05 PM
L88	1	"3521216".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2017/11/02 04:21 PM
L89	83	439/39.ccls. and retract$4	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/11/02 04:34 PM
L90	128	439/38-40.ccls. and retract$4	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/11/02 04:36 PM
L91	45	L90 not L89	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2017/11/02 04:36 PM
L92	421	a24f47/008.cpc. and qiuming.in.	(US-PGPUB; USPAT)	OR	ON	ON	2017/11/06 11:16 AM
L93	103	a24f47/008.cpc. and yonghai.in.	(US-PGPUB; USPAT)	OR	ON	ON	2017/11/06 11:34 AM
L94	924	a24f47/008.cpc. and ("2015" "2014" "2013" "2012" "2011").py.	(US-PGPUB; USPAT)	OR	ON	ON	2017/11/06 11:38 AM

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L95	24	a24f47/008.cpc. and scatterday.in.	(US-PGPUB; USPAT)	OR	ON	ON	2017/11/06 01:09 PM
L99	1	"14201267"	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L100	4	"14196729"	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L101	725	a24f47/008.cpc. and (insert$3 receiv$3) near5 (cartridge cartomizer)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L102	2775	a24f47/008.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L103	688	a24f47/008.cpc. and (chamber recess$3 cavity lumen) near7 (cartridge cartomizer)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L104	1738	a24f47/008.cpc. and replac$5	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L105	436	a24f47/008.cpc. and insulat$4 and (magnet magnetic$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L106	1455	a24f47/008.cpc. and (chamber recess$3 cavity lumen) near5 (insert$4 receiv$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L107	612	a24f47/008.cpc. and (rechar$3 charg$3) same contact	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L108	294	a24f47/008.cpc. and (rechar$3 charg$3) same (magnet magnetic$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L109	441	a24f47/008.cpc. and (rechar$3 charg$3).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L110	729	a24f47/008.cpc. and surface near9 contact	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L111	110	("20060093977"|"20120318882"|"20130199528"|"20130213420"|"4207457"|"4771295"|"4848374"|"4945929"|"5646666"|"5743251"|"6722763"|"8490628"|"D704634"|"20110220234"|"D260941"|"D720094"|"D720496"|"D726364"|"20150091501"|"3203025"|"3400998"|"4771796"|"479769	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM

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		2"|"4990939"|"5144962"|"5505214"|"5894841"|"6062213"|"6501052"|"7143766"|"D257519"|"D722166"|"2057353"|"3200819"|"6471782"|"6620659"|"6719443"|"8365742"|"D644375"|"D693053"|"D695450"|"D248047"|"D260690"|"D724263"|"20050017685"|"2545851"|"3060429"|"5666977"|"5703633"|"5996589"|"6196218"|"D531180"|"D693765"|"D720881"|"20130152922"|"4569136"|"20130192617"|"20130220315"|"20130284190"|"20140261499"|"D720882"|"3747120"|"4676237"|"4945448"|"5819756"|"6701921"|"8375957"|"D720095"|"D722956"|"D724782"|"20140034070"|"D721202"|"3479561"|"5124200"|"5388574"|"6234167"|"D725310"|"20130042865"|"20130180533"|"20150027471"|"8955522"|"9038642"|"D251072"|"D675777"|"D729441"|"1446087"|"20080257367"|"20130298905"|"20150027467"|"3502588"|"5224265"|"5327915"|"7059307"|"8393331"|"D645816"|"D702876"|"D718492"|"D720497"|"20140041655"|"4972855"|"5060671"|"6155268"|"6322268"|"6598607"|"D624238"|"D642330"|"D720883"|"D259588"|"D688415"|"D732733").PN.				
L112	35	a24f47/008.cpc. and pogo	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L113	8151	"pogo pin"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L114	44	"pogo pin" and "320".clas.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM

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L115	243	a24f47/008.cpc. and gold	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L116	14	a24f47/008.cpc. and wiper	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L117	70	"320".clas. and wiper near9 contact	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L118	66	a24f47/008.cpc. and contact near5 slid$3	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L119	2063	a24f47/008.cpc. and electric$4 near5 (contact$3 connect$4)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L120	32	a24f47/008.cpc. and magnet$6 near7 insulat$5	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L121	40	a24f47/008.cpc. and magnet$6 near7 (oppos$5 polar$3)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L122	80	a24f.cpcl. and magnet$6 near7 (oppos$5 polar$3)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L123	106	a24f.cpcl. and magnet$6 near7 (negativ$3 positiv$3)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L124	1343	(magnet$6 near9 (oppos$5 near5 polar$3)) near20 align$5	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L125	709	A44D2203/00.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L126	89	L125 and north near9 south	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L127	928	a24f47/008.cpc. and (pcb "circuit board")	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L128	25	a24f47/008.cpc. and ring near9 indicat$3	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L129	461	a24f47/008.cpc. and (button switch) near7 (light illumin$5 glow$3 indicat$3 led)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L130	22	a24f47/008.cpc. and (pushbutton) near7 (light illumin$5 glow$3 indicat$3 led)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L131	89	a24f47/008.cpc. and (pcb "circuit board") near9 (button pushbutton)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L132	409	a24f47/008.cpc. and	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23

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		(pcb "circuit board") same (button pushbutton press$3)					11:25 AM
L133	321	a24f47/008.cpc. and (lcd display$3) near7 screen	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L134	258	a24f47/008.cpc. and window	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L135	1535	a24f47/008.cpc. and (wire wiring) near7 (heat$3 atomiz$3)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L136	199	a24f47/008.cpc. and translucent	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L137	996	a24f47/008.cpc. and conduct$3 near5 heat$3	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L138	1001	a24f47/008.cpc. and heat$3 near3 (exterior external$3 outside outer surround$3)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L139	99	a24f47/008.cpc. and ("non-conductive" (non adj conductive) nonconductive)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L140	413	a24f47/008.cpc. and (heat$3 atomiz$3) near15 (intertwin$3 dispers$3 mesh$3 woven weav$3 interlac$3 entwin$3 braid$3)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L141	432	a24f47/008.cpc. and sens$3 same (pcb "circuit board")	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L142	135	a24f47/008.cpc. and sens$3 same (pcb "circuit board") same (outside external$3 environment$4)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L143	961	a24f47/008.cpc. and sens$3 near5 (air airflow)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L144	271	a24f47/008.cpc. and sens$3 near9 (outside external$3 ambient environment$4)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L145	352	a24f47/008.cpc. and sens$3 near15 (cartridge cartomizer)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L146	785	a24f47/008.cpc. and (magnetiz$5 magnet magnetic$4)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L147	195	a24f47/008.cpc. and	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23

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		(magnetiz$5 magnet magnetic$4) near9 (within inner interior inside)					11:25 AM
L148	40	a24f47/008.cpc. and (magnetiz$5 magnet magnetic$4) near15 insulat$5	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L149	216	"320".clas. and (magnetiz$5 magnet magnetic$4) near15 insulat$5	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L150	404	a24f47/008.cpc. and $2charg$5 near9 (contact electrode)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L151	467	320/114-115.ccls. and (magnetiz$5 magnet magnetic$4)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L152	669	a24f47/008.cpc. and (outside outer external$2) near9 (contact electrode)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L153	372	L152 and $2charg$5 near5 (battery power)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L154	88	L151 and (outside outer external$2) near9 (contact electrode)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L155	2	"20120223673"	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L156	126	320/114-115.ccls. and (magnetiz$5 magnet magnetic$4) near9 (within inner interior inside)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L157	603	L146 and $2charg$5 near5 (battery power)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L158	459	320/114-115.ccls. and usb	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L159	233	320/107-115.ccls. and (magnetiz$5 magnet magnetic$4) same (polar$5)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L160	32	a24f47/008.cpc. and (magnetiz$5 magnet magnetic$4) same (polar$5)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L161	2539	H02J7/0044.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L162	24	a24f47/008.cpc. and magnet$3 near9 annular$2	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L163	157	a24f47/008.cpc. and	(US-PGPUB; USPAT;	OR	ON	ON	2018/03/23

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		magnet$3 near15 (ring concentric$4 surround$3 around circle annular$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:25 AM
L164	200	L161 and magnet$3 near15 (ring concentric$4 surround$3 around circle annular$2)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L165	3563	H02J7/0042.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L166	333	L165 and magnet$3 near15 (ring concentric$4 surround$3 around circle annular$2)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L167	197	"3808577"	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L168	813	439/38-40.ccls.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L169	304	L168 and magnet$3 near15 (ring concentric$4 surround$3 around circle annular$2)	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L170	24	a24f47/008.cpc. and qiu.in.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L171	176	a24f47/008.cpc. and retract$3	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L172	1	"3521216".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L173	83	439/39.ccls. and retract$4	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L174	128	439/38-40.ccls. and retract$4	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L175	45	L174 not L173	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2018/03/23 11:25 AM
L176	462	a24f47/008.cpc. and qiuming.in.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L177	130	a24f47/008.cpc. and yonghai.in.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L178	926	a24f47/008.cpc. and ("2015" "2014" "2013" "2012" "2011").py.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM
L179	25	a24f47/008.cpc. and scatterday.in.	(US-PGPUB; USPAT)	OR	ON	ON	2018/03/23 11:25 AM

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L183	482	a24f47/008.cpc. and charg$3.clm.	(US-PGPUB; USPAT)	OR	ON	ON	2018/07/17 10:45 AM
L184	814	439/38-40.ccls.	(US-PGPUB; USPAT)	OR	ON	ON	2018/07/17 10:45 AM
L185	1806	320/114-115.ccls.	(US-PGPUB; USPAT)	OR	ON	ON	2018/07/17 10:45 AM
L187	1	"20130168880"	(US-PGPUB; USPAT)	OR	ON	ON	2019/09/03 10:08 AM
L188	2	"20130333711"	(US-PGPUB; USPAT)	OR	ON	ON	2019/09/03 10:20 AM
L189	207	a24f47/008.cpc. and ("2015" "2014" "2013" "2012" "2011").py. and magnet$5	(US-PGPUB; USPAT)	OR	ON	ON	2019/09/03 11:39 AM
L190	458	a24f47/008.cpc. and ("2015" "2014" "2013" "2012" "2011").py. and $2charg$4	(US-PGPUB; USPAT)	OR	ON	ON	2019/09/03 11:49 AM
L192	1115	a24f47/008.cpc. not ("2020" "2019" "2018" "2017" "2016").py.	(US-PGPUB; USPAT)	OR	ON	ON	2020/02/11 04:03 PM
L193	85	L192 and retract$4	(US-PGPUB; USPAT)	OR	ON	ON	2020/02/11 04:06 PM
L194	354	L192 and (receiv$3 insert$3) near5 (chamber cavity socket)	(US-PGPUB; USPAT)	OR	ON	ON	2020/02/11 04:37 PM
L196	1	"20160374393"	(US-PGPUB; USPAT)	OR	ON	ON	2020/07/04 10:40 AM
L197	1116	a24f47/008.cpc. not ("2020" "2019" "2018" "2017" "2016").py.	(US-PGPUB; USPAT)	OR	ON	ON	2020/07/04 02:46 PM
L198	218	a24f40/90.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/07/04 04:08 PM
L199	501	a24f40/40.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/07/04 04:08 PM
L204	1024	a24f40/90.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/12/07 09:54 AM
L205	981	a24f40/40.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2020/12/07 09:54 AM
L209	13	"14196729"	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/02 10:30 AM
L210	830	a24f40/$.cpc. and translucen$3	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/02 01:52 PM
L211	1476	a24f40/$.cpc. and (illuminat$3 led light) near9 (insert$3 attach$4 connect$3 coupl$3)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/03 12:22 PM

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L212	719	a24f40/$.cpc. and (illuminat$3 led light) same (transparent translucent)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/03 01:06 PM
L213	1155	a24f40/$.cpc. and "snap fit"	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/03 02:33 PM
L215	939	a24f40/$.cpc. and ("2015" "2014" "2013" "2012" "2011" "2010").py.	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/03 03:38 PM
L216	17	L215 and metal$3 with magnet$5	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/03 03:38 PM
L219	70	L215 and suction$3 with (pressure pressuriz$5)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/03 03:42 PM
L221	492	a24f40/$.cpc. and suction$3 near7 (fit coupl$3 attach$4 connect$3)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/03 03:44 PM
L222	50	a24f40/$.cpc. and (suctioned suctioning)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/03 03:47 PM
L223	591	a24f40/$.cpc. and (pressuriz$3 pressuris$3)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/03 03:49 PM
L226	166	a24f.cpcl. and (pressuriz$3 pressuris$3 pressure) with (interference friction)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/03 04:47 PM
L227	123	a24f.cpcl. and suction near9 (fit fitted fitting)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/03 04:51 PM
L228	288	a24f.cpcl. and (pressuriz$3 pressuris$3 pressure) near9 (fit fitted fitting)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/03 04:53 PM
L230	76	a24f.cpcl. and (pressuriz$3 pressuris$3) near9 (connect$4 attach$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/03 04:56 PM
L231	49	a24f.cpcl. and (pressuriz$3 pressuris$3) near9 (held secur$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/03 04:57 PM
L232	292	a24f40/$.cpc. and ("2015" "2014" "2013" "2012" "2011" "2010").py. and align$5	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 09:15 AM
L233	18	yaary.xp. and verleur and align$5	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 09:18 AM
L234	3	yaary.xp. and verleur and align$5.clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 09:18 AM

NJOY Exhibit 1007.330

L235	157	a24f40/$.cpc. and (correct proper) near5 orientation	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 01:01 PM
L237	512	a24f40/$.cpc. and (proper$2 correct$2) near5 align$5	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 01:33 PM
L238	696	a24f40/$.cpc. and "friction fit"	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/06 01:34 PM
L239	1	"20150181930"	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/07 09:29 AM
L240	904	a24f40/$.cpc. and translucen$3	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:55 PM
L241	939	a24f40/$.cpc. and ("2015" "2014" "2013" "2012" "2011" "2010").py.	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:55 PM
L242	70	L215 and suction$3 with (pressure pressuriz$5)	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:55 PM
L243	783	a24f40/$.cpc. and (illuminat$3 led light) same (transparent translucent)	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:56 PM
L244	167	a24f40/$.cpc. and (correct proper) near5 orientation	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:56 PM
L245	542	a24f40/$.cpc. and (proper$2 correct$2) near5 align$5	(US-PGPUB; USPAT)	OR	ON	ON	2022/07/18 12:56 PM
L246	553	a24f40/$.cpc. and (proper$2 correct$2) near5 align$5	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/11 01:17 PM
L247	175	a24f40/$.cpc. and (correct proper) near5 orientation	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/11 01:17 PM
L248	957	a24f40/$.cpc. and translucen$3	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/11 01:18 PM
L250	354	a24f40/40.cpc. AND @py<"2016"	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/31 10:51 AM
L251	968	a24f40/$.cpc. and translucen$3	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/31 10:52 AM
L252	177	a24f40/$.cpc. and (correct proper) near5 orientation	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/31 10:52 AM
L253	554	a24f40/$.cpc. and (proper$2 correct$2) near5 align$5	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/31 10:52 AM
L254	143	L250 AND chamber	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/31 10:53 AM

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N96	1830	a24f47/008.cpc.	(US-PGPUB)	OR	ON	ON	2017/11/12 07:43 PM
N97	39	N96 and retract$4.clm.	(US-PGPUB)	OR	ON	ON	2017/11/12 07:43 PM
N98	129	N96 and magnetic$4.clm.	(US-PGPUB)	OR	ON	ON	2017/11/12 07:43 PM
N180	2090	a24f47/008.cpc.	(US-PGPUB)	OR	ON	ON	2018/03/23 11:25 AM
N181	41	N180 and retract$4.clm.	(US-PGPUB)	OR	ON	ON	2018/03/23 11:25 AM
N182	139	N180 and magnetic$4.clm.	(US-PGPUB)	OR	ON	ON	2018/03/23 11:25 AM
N195	28	a24f47/008.cpc. and retract$4.clm.	(USPAT)	OR	ON	ON	2020/02/12 04:12 PM
N200	58	a24f40/90.cpc.	(USPAT)	OR	ON	ON	2020/07/05 10:12 AM
N201	208	a24f40/40.cpc.	(USPAT)	OR	ON	ON	2020/07/05 10:13 AM
N202	1754	a24f47/008.cpc.	(USPAT)	OR	ON	ON	2020/07/05 10:13 AM
N203	126	(N200 N201 N202) and magnet$4.clm.	(USPAT)	OR	ON	ON	2020/07/05 10:14 AM
N206	343	a24f40/40.cpc.	(USPAT)	OR	ON	ON	2020/12/07 10:13 AM
N207	93	a24f40/90.cpc.	(USPAT)	OR	ON	ON	2020/12/07 10:13 AM
N208	31	(N206 N207) and magnet$6.clm.	(USPAT)	OR	ON	ON	2020/12/07 10:14 AM
N209	1070	A24F40/40.cpc.	(USPAT)	OR	ON	ON	2022/11/02 09:50 AM
N210	25	N209 AND translucen$2.clm.	(USPAT)	OR	ON	ON	2022/11/02 09:51 AM
N211	30	N209 AND window.clm.	(USPAT)	OR	ON	ON	2022/11/02 09:51 AM

NJOY Exhibit 1007.332

Bibliographic Data

Application No: 17/095,567

Foreign Priority claimed: (•) Yes ( ) No

35 USC 119 (a-d) conditions met: [✓] Yes [ ] No [ ] Met After Allowance

Verified and Acknowledged: /ERIC YAARY/ Examiner's Signature [ ] Initials

Title: VAPORIZER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/11/2020	131	1747	55755-402C07US
RULE			

APPLICANTS

VMR Products LLC, San Francisco, CA, UNITED STATES

INVENTORS

Jan Andries Verleur, Miami, FL, UNITED STATES

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Yinjun Zhang, MIAMI, FL, UNITED STATES

Arturo Fajardo, MIAMI, FL, UNITED STATES

Hans Verleur, El Dorado, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 14201267 03/07/2014 PAT 10980273

14201267 is a CON of 14196729 03/04/2014 PAT 10039321

14196729 has PRO of 61937851 02/10/2014

14196729 has PRO of 61903344 11/12/2013 *

(*) Data provided by applicant is not consistent with PTO record

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

11/20/2020

STATE OR COUNTRY

UNITED STATES

ADDRESS

Mintz/JUUL

One Financial Center

Boston, MA 02111

UNITED STATES

FILING FEE RECEIVED

$1,980

OK TO ENTER: /E.Y/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of:
Jan Andries Verleur, et al.

Application No.: 17/095,567 Confirmation No.: 6248

Filed: November 11, 2020 Art Unit: 1747

For: Vaporizer Examiner: Eric Yaary

AMENDMENT AFTER FINAL OFFICE ACTION UNDER 37 C.F.R. §1.116

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

Dear Commissioner:

This paper is in response to the final Office Action dated July 25, 2022 and the advisory action dated October 21, 2022.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 7 of this paper.

A **Terminal Disclaimer** is submitted herewith.

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
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US	6248

148514 7590 11/17/2022

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER	
YAARY, ERIC	

ART UNIT	PAPER NUMBER
1747	

NOTIFICATION DATE	DELIVERY MODE
11/17/2022	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):

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com
mintzdocketing@cpaglobal.com

NJOY Exhibit 1007.336

Corrected ***Notice of Allowability***	**Application No.** 17/095,567	**Applicant(s)** Verleur et al.	
	Examiner ERIC YAARY	**Art Unit** 1747	**AIA (FITF) Status** Yes

-- 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 10/25/2022.
   ☐ 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 See Continuation Sheet . 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 7/20/2022.
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 _____.

/ERIC YAARY/
Examiner, Art Unit 1747

NJOY Exhibit 1007.337

Continuation of 3. The allowed claim(s) is/are: 10-17,19-21,23-25 and 27-30

Used in Lieu of PTO/SB/08A/B
(Based on PTO 11-07 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
(Use as many sheets as necessary)				Art Unit	1747
				Examiner Name	Eric Yaary
Sheet	1	of	2	Attorney Docket Number	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2009272379-A1	11-05-2009	Thorens et al.	
		US-20110226236-A1	09-22-2011	Helmut Buchberger	
		US-20130213420-A1	08-22-2013	Lik Hon.	
		US-20150128976-A1	05-14-2015	Verleur et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*		Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	**	CN-100589726-C	02-17-2010	Han Li		
	**	CN-101861691-A	10-13-2010	Bosch Gmbh Robert		
		CN-102014677-A	04-13-2011	Philip Morris Prod		
		CN-1196660-A	10-21-1998	Japan Tobacco Inc		
		CN-201403497-Y	02-17-2010	Cixi E Cig Electronic Technology Co Ltd		
		CN-201491720-U	06-02-2010	De Huang Shunyao Xie		
		CN-203168035-U	09-04-2013	Kimree Technology Co., Ltd.		
	**	CN-204466899-U	07-15-2015	VMR Products, LLC		
		EP-2113178-A1	11-04-2009	Philip Morris Products SA		
		EP-2489391-A1	08-22-2012	Joyetech (changzhou) Electronics Co., Ltd.		
		EP-2654471-A1	10-30-2013	Philip Morris Products SA		
	**	EP-3456214-A1	03-20-2019	Vmr Products, LLC		
	**	EP-3469934-A1	04-17-2019	Vmr Products, LLC		
	**	KR-101011453-B1	01-28-2011	Sjn, Jong Su		
		KR-200454110-Y1	06-15-2011	Seong-Hun Yoon		
		KR-20120074625-A	07-06-2012	Lee Hi Min		
		TW-201315397-A	04-16-2013	Ploom Inc		
		WO-2008138650-A1	11-20-2008	Wang Robert		
		WO-2009132793-A1	11-05-2009	Philip Morris Prod		
		WO-2011160788-A1	12-29-2011	Philip Morris Prod		
		WO-2013025921-A1	02-21-2013	Ploom Inc		
	**	WO-2013093695-A1	06-27-2013	Sis Resources Ltd.		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

Used in Lieu of PTO/SB/08A/B
(Based on PTO 11-07 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/095,567
				Filing Date	November 11, 2020
				First Named Inventor	Jan Andries Verleur
				Art Unit	1747
(Use as many sheets as necessary)				Examiner Name	Eric Yaary
Sheet	2	of	2	Attorney Docket Number	

	**	WO-2013098397-A2	07-04-2013	Philip Morris Products SA		
	**	WO-2014008646-A1	01-16-2014	Shenzhen L-rider Technology Co, Ltd.		
	**	WO-2014139609-A2	09-18-2014	Philip Morris Products SA		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	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[2]

Examiner Signature	/ERIC YAARY/	Date Considered	11/14/2022

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

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.Y/

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/095,567	02/08/2023 10:44:25 AM ET	55755-402C07US

Title of Invention

VAPORIZER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	6248	FILED BY	Desire' Wells
PATENT CENTER #	61563417	AUTHORIZED BY	Elissa Kingsland
CUSTOMER #	148514	FILING DATE	11/11/2020
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Jan Andries Verleur

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500311	E202328A45012072	Elissa Kingsland

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
500311	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)

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1501	UTILITY ISSUE FEE	1200.00	1	1200.00
			TOTAL AMOUNT:	$1,200.00

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 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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Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/095,567	**02/08/2023 10:44:25 AM ET**	**55755-402C07US**

Title of Invention

VAPORIZER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	6248	FILED BY	Desire' Wells
PATENT CENTER #	61563417	FILING DATE	11/11/2020
CUSTOMER #	148514	FIRST NAMED INVENTOR	Jan Andries Verleur
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Elissa Kingsland

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
55755_402C07US_Issue_Fee_Transmittal.pdf	1	Issue Fee Payment (PTO-85B)	245 KB
55755_402C07US_Comments.pdf	1	Post Allowance Communication - Incoming	100 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
55755_402C07US_Issue_Fee_Transmittal.pdf	AC0C50F8D12CE6AC1B0F14CD7BBF96121BC7A50DF6FDD6499B1F6B5718A7132F2499C8D92BD792B731880C081D260A5763

	D9DE886D0FA3495322C37417C8DE55
55755_402C07US_Comments.pdf	41AE03C84BCD8E9FF65615F9EF5990F540C0B1E6C89B01B9506667532C6A50ABE827A78DA78D404C8F693DF9F2A69D9AD0F0DFFF2D3A132F205D5240C5C06A1F

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for 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.

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Commissioner for Patents
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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)

148514 7590 11/09/2022

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Boston, MA 02111

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.
17/095,567	11/11/2020	Jan Andries Verleur		6248

TITLE OF INVENTION: VAPORIZER

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	02/09/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
YAARY, ERIC	1747	131-329000

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 Mintz Levin Cohn Ferris Glovsky and Popeo, 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: VMR Products LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): San Francisco, California

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. 50-0311

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 /Elissa M. Kingsland/ Date February 8, 2023

Typed or printed name Elissa M. Kingsland Registration No. 63,259

PTOL-85 Part B (08-18) Approved for use through 01/31/2020 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

NJOY Exhibit 1007.345

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of:
Jan Andries Verleur, et al.

Application No.: 17/095,567 Confirmation No.: 6248

Filed: November 11, 2020 Art Unit: 1747

For: VAPORIZER Examiner: Eric Yaary

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

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

Dear Commissioner:

Applicant has received the Examiner's Statement of Reasons for Allowance with the November 9, 2022 Notice of Allowance and Allowability regarding the above-identified application. Entry of the Statement into the record should not be construed as any agreement with or acquiescence in the reasoning stated by the Examiner. Each of the claims stands on its own merits and is patentable because of the combination it recites and not because of the presence or absence of any one particular element.

The Examiner's Statement was not prepared by Applicant and only contains the Examiner's possible positions in one or more reasons for allowability. Thus, any interpretation with respect to the Examiner's Statement of Reasons for Allowance should not be imputed to the Applicant.

Dated: February 8, 2023

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY
AND POPEO, P.C.
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

NJOY Exhibit 1007.346

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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/095,567	03/21/2023	11606981	55755-402C07US	6248

148514 7590 03/01/2023

Mintz/JUUL
One Financial Center
Boston, MA 02111

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 18 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.

INVENTOR(s) (Please see PAIR WEB site http://pair.uspto.gov for additional inventors):

Jan Andries Verleur, Miami, FL;
Dan Recio, Miami Beach, FL;
Yifeng Lu, MIAMI, FL;
Yinjun Zhang, MIAMI, FL;
Arturo Fajardo, MIAMI, FL;

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

VMR Products LLC, San Francisco, CA;

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 USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

NJOY Exhibit 1007.347

PTO/SB/44 (09-07)
Approved for use through 03/31/2023. OMB 0651-0033
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.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 11,606,981

APPLICATION NO.: 17/095,567

ISSUE DATE : March 21, 2023

INVENTOR(S) : Jan Andries Verleur, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims:

At column 18, claim 2, line number 38, delete the word “cartomizer” and insert -- vaporizer device -- ;

At column 18, claim 3, line number 40, delete the word “cartomizer” and insert -- vaporizer device -- ;

At column 18, claim 4, line number 45, delete the word “cartomizer” and insert -- vaporizer device -- ;

At column 18, claim 5, line number 49, delete the word “cartomizer” and insert -- vaporizer device -- ;

At column 18, claim 6, line number 54, delete the word “cartomizer” and insert -- vaporizer device -- ;

At column 18, claim 7, line number 58, delete the word “cartomizer” and insert -- vaporizer device -- ;

At column 18, claim 8, line number 62, delete the word “cartomizer” and insert -- vaporizer device -- ;

At column 19, claim 14, line number 55, delete the word “cartomizer” and insert -- vaporizer device --;

At column 20, claim 15, line number 1, delete the word “cartomizer” and insert -- vaporizer device -- ;

At column 20, claim 16, line number 3, delete the word “cartomizer” and insert -- vaporizer device -- .

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Elissa M. Kingsland
MINTZ LEVIN COHN FERRIS GLOVSKLY AND POPEO, P.C.
One Financial Center

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, 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.

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.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/095,567	06/07/2023 05:22:23 PM ET	55755-402C07US

Title of Invention

VAPORIZER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11606981
CONFIRMATION #	6248	FILED BY	Desire' Wells
PATENT CENTER #	62223642	AUTHORIZED BY	Elissa Kingsland
CUSTOMER #	148514	FILING DATE	11/11/2020
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Jan Andries Verleur

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500311	E202367H23249906	Elissa Kingsland

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
500311	37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1811	CERTIFICATE OF CORRECTION	160.00	1	160.00
			TOTAL AMOUNT:	$160.00

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 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

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/095,567	**06/07/2023 05:22:23 PM ET**	**55755-402C07US**

Title of Invention

VAPORIZER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11606981
CONFIRMATION #	6248	FILED BY	Desire' Wells
PATENT CENTER #	62223642	FILING DATE	11/11/2020
CUSTOMER #	148514	FIRST NAMED INVENTOR	Jan Andries Verleur
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Elissa Kingsland

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
55755_402C07US_Request_CoC.pdf	2	Request for Certificate of Correction	107 KB
55755_402C07US_CoC.pdf	2	Request for Certificate of Correction	172 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
55755_402C07US_Request_CoC.pdf	FA547E17D65D026435B1D9AAACEF8E2FF497B56C0EE67851CB1A5376B3F058F072C8882C89ADC769192D85AF4FCDAB47F2

	D276AABE1499B218A77E76CF4C3941
55755_402C07US_CoC.pdf	F4E10B9E4F28EECFD4F0912EC3E3C550279B1CEDB8E24EB3 4A3CB7F952A8C44F03C67C638955E29AB7C05047401C484036 812B1AF29253F4FA562EC7D9545F86

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 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

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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Jan Andries Verleur, et al.

Patent No.: 11,606,981

Issued: March 31, 2023

For: VAPORIZER

REQUEST FOR CERTIFICATE OF CORRECTION PURSUANT TO 37 C.F.R. § 1.323

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Upon reviewing the above-identified patent, Patentee noted typographical errors in the claims, which should be corrected.

In the Claims:

At column 18, claim 2, line number 38, delete the word "cartomizer" and insert -- vaporizer device --;

At column 18, claim 3, line number 40, delete the word "cartomizer" and insert --vaporizer device --;

At column 18, claim 4, line number 45, delete the word "cartomizer" and insert -- vaporizer device -- ;

At column 18, claim 5, line number 49, delete the word "cartomizer" and insert -- vaporizer device -- ;

At column 18, claim 6, line number 54, delete the word "cartomizer" and insert -- vaporizer device --;

At column 18, claim 7, line number 58, delete the word "cartomizer" and insert -- vaporizer device --;

At column 18, claim 8, line number 62, delete the word "cartomizer" and insert -- vaporizer device -- ;

At column 19, claim 14, line number 55, delete the word "cartomizer" and insert -- vaporizer device -- ;

At column 20, claim 15, line number 1, delete the word "cartomizer" and insert -- vaporizer device -- ;

At column 20, claim 16, line number 3, delete the word "cartomizer" and insert -- vaporizer device --.

The errors were found in the Amendment After Final Office Action filed on October 25, 2022 by applicant.

The errors now sought to be corrected are inadvertent typographical errors the correction of which does not involve new matter or require reexamination.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.

Please charge our Deposit Account No. 50-0311 in the amount of $160.00 covering the fee set forth in 37 C.F.R. § 1.20(a). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith to our Deposit Account No. 50-0311, under Reference No. 17/095,567, from which the undersigned is authorized to draw.

Dated: June 7, 2023

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/095,567	11/11/2020	Jan Andries Verleur	55755-402C07US	6248

148514 7590 06/16/2023

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER	
YAARY, ERIC	

ART UNIT	PAPER NUMBER
1747	

NOTIFICATION DATE	DELIVERY MODE
06/16/2023	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):

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com
mintzdocketing@cpaglobal.com

NJOY Exhibit 1007.356

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No.: 11606981
Issue Date: 03/21/2023
Appl. No.: 17/095,567
Filed: 11/11/2020

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed 07 June 2023.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)
☑ Approved ☐ Approved in Part ☐ Denied

Comments: ____

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☐ This is a decision on the petition filed ____ to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed ____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby: ☐ Granted ☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/PHILIP Y LOUIE/
Supervisory Patent Examiner, Art Unit 1755
Technology Center 1700
Phone: (571)270-1241

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/095,567	**06/23/2023 01:50:34 PM ET**	**55755-402C07US**

Title of Invention

VAPORIZER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11606981
CONFIRMATION #	6248	FILED BY	Desire' Wells
PATENT CENTER #	62324709	AUTHORIZED BY	Elissa Kingsland
CUSTOMER #	148514	FILING DATE	11/11/2020
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	J an Andries Verleur

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 500311	E20236MD51595316	Elissa Kingsland

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
500311	37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1811	CERTIFICATE OF CORRECTION	160.00	1	160.00
			TOTAL AMOUNT:	**$160.00**

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 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

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/095,567	**06/23/2023 01:50:34 PM ET**	**55755-402C07US**

Title of Invention

VAPORIZER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11606981
CONFIRMATION #	6248	FILED BY	Desire' Wells
PATENT CENTER #	62324709	FILING DATE	11/11/2020
CUSTOMER #	148514	FIRST NAMED INVENTOR	Jan Andries Verleur
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Elissa Kingsland

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
55755_402C07US_Request_for_Certificate_of_Correction.pdf	2	Request for Certificate of Correction	108 KB
55755_402C07US_Certificate_of_Correction_1_of_2.pdf	2	Request for Certificate of Correction	172 KB
55755_402C07US_Certificate_of_Correction_2_of_2.pdf	2	Request for Certificate of Correction	172 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

55755_402C07US_Request_for_Certificate_of_Correction.pdf	87297363B1484F8F1A26CC857DEB3A78C9D0FFE4AE5AD2319C0B29E399041EA5E0483AAE4FCD27FFFB8672EE27D168118A637277E2F5AF1D59CF1222C7ACC4C0
55755_402C07US_Certificate_of_Correction_1_of_2.pdf	3FE9EF11ABB69434AAAD02B706B1A76041803E7D46FC9CF0C206ECA3301C6AA86FEA27BD2B47AA5CAB1E71B02BC00C7035B316579BED5241EA3A0B74284855DD
55755_402C07US_Certificate_of_Correction_2_of_2.pdf	ED561081E86D2120870D10341DF2A40C752A990910E340B8A192E43D7CD80BB41107356A24465E458D441718BB693A055D00507C147AE3458B5EF6EA6519DE81

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 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Jan Andries Verleur, et al.

Patent No.: 11,606,981

Issued: March 21, 2023

For: VAPORIZER

REQUEST FOR CERTIFICATE OF CORRECTION PURSUANT TO 37 C.F.R. § 1.323

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Upon reviewing the above-identified patent, Patentee noted typographical errors in the claims, which should be corrected.

In the Claims:

At column 18, claim 9, line number 67, delete the punctuation "," and insert -- ; --.

At column 19, claim 9, line number 9, delete the phrase "the insertion end" and insert -- an insertion end --;

At column 19, claim 9, line numbers 18-19, delete the phrase "the translucent portion" and insert -- a translucent portion --;

At column 19, claim 10, line number 22, delete the phrase "wherein outer" and insert -- wherein the outer --;

At column 19, claim 13, line number 46, delete the word "and";

At column 19, claim 14, line number 57, delete the word "fluid";

At column 20, claim 16, line number 3, delete the phrase "wherein cartomizer" and insert -- wherein the cartomizer --;

At column 20, claim 17, line number 13, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 14, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 16, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 17, delete the phrase "the mouthpiece end" and insert -- a mouthpiece end --;

At column 20, claim 17, line numbers 18-19, delete the phrase “the inhalation tube" and insert -- an inhalation tube --;

At column 20, claim 17, line number 26, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 31, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 36, delete the punctuation "," and insert -- ; --;

At column 20, claim 18, line number 42, delete the word "an" and insert -- the --;

At column 20, claim 18, line number 49, delete the punctuation ";" and insert -- , --.

The errors were found in the Preliminary Amendments filed on January 20, 2021 by applicant and in the Amendment in Response to Non-Final Office Action filed on July 11, 2022 by applicant.

The errors now sought to be corrected are inadvertent typographical errors the correction of which does not involve new matter or require reexamination.

Transmitted herewith is proposed Certificate of Corrections effecting such amendments. Patentee respectfully solicits the granting of the requested Certificate of Correction.

Please charge our Deposit Account No. 50-0311 in the amount of $160.00 covering the fee set forth in 37 C.F.R. § 1.20(a). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith to our Deposit Account No. 50-0311, under Reference No. 17/095,567, from which the undersigned is authorized to draw.

Dated: June 23, 2023

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

NJOY Exhibit 1007.363

PTO/SB/44 (09-07)
Approved for use through 03/31/2023. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 11,606,981

APPLICATION NO.: 17/095,567

ISSUE DATE : March 21, 2023

INVENTOR(S) : Jan Andries Verleur, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims:

At column 18, claim 9, line number 67, delete the punctuation "," and insert -- ; --.

At column 19, claim 9, line number 9, delete the phrase “the insertion end" and insert -- an insertion end --;

At column 19, claim 9, line numbers 18-19, delete the phrase “the translucent portion" and insert -- a translucent portion --;

At column 19, claim 10, line number 22, delete the phrase “wherein outer" and insert -- wherein the outer --;

At column 19, claim 13, line number 46, delete the word “and”;

At column 19, claim 14, line number 57, delete the word "fluid";

At column 20, claim 16, line number 3, delete the phrase “wherein cartomizer" and insert -- wherein the cartomizer --;

At column 20, claim 17, line number 13, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 14, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 16, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 17, delete the phrase "the mouthpiece end" and insert -- a mouthpiece end --.

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):
Elissa M. Kingsland
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, MA 02111

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, 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.

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.

PTO/SB/44 (09-07)
Approved for use through 03/31/2023. OMB 0651-0033
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.
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 11,606,981

APPLICATION NO.: 17/095,567

ISSUE DATE : March 21, 2023

INVENTOR(S) : Jan Andries Verleur, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims:

At column 20, claim 17, line numbers 18-19, delete the phrase “the inhalation tube" and insert -- an inhalation tube --;

At column 20, claim 17, line number 26, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 31, delete the punctuation "," and insert -- ; --;

At column 20, claim 17, line number 36, delete the punctuation "," and insert -- ; --;

At column 20, claim 18, line number 42, delete the word "an" and insert -- the --;

At column 20, claim 18, line number 49, delete the punctuation ";" and insert -- , --.

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):
Elissa M. Kingsland
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, MA 02111

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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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.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 11,606,981 B2
APPLICATION NO. : 17/095567
DATED : March 21, 2023
INVENTOR(S) : Jan Andries Verleur et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims

At Column 18, Claim 2, Line number 38, delete the word "cartomizer" and insert -- vaporizer device --;

At Column 18, Claim 3, Line number 40, delete the word "cartomizer" and insert -- vaporizer device --;

At Column 18, Claim 4, Line number 45, delete the word "cartomizer" and insert -- vaporizer device --;

At Column 18, Claim 5, Line number 49, delete the word "cartomizer" and insert -- vaporizer device --;

At Column 18, Claim 6, Line number 54, delete the word "cartomizer" and insert -- vaporizer device --;

At Column 18, Claim 7, Line number 58, delete the word "cartomizer" and insert -- vaporizer device --;

At Column 18, Claim 8, Line number 62, delete the word "cartomizer" and insert -- vaporizer device --;

At Column 19, Claim 14, Line number 55, delete the word "cartomizer" and insert -- vaporizer device --;

Signed and Sealed this
Fourth Day of July, 2023

Katherine Kelly Vidal

Katherine Kelly Vidal
Director of the United States Patent and Trademark Office

At Column 20, Claim 15, Line number 1, delete the word “cartomizer” and insert -- vaporizer device --;

At Column 20, Claim 16, Line number 3, delete the word “cartomizer” and insert -- vaporizer device --.

AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the District of Arizona on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
CV 23-1204-PHX-SPL	6/30/2023	for the District of Arizona

PLAINTIFF	DEFENDANT
JUUL Labs, Inc. and VMR Products LLC	NJOY, LLC, NJOY Holdings, Inc., Altria Group, Inc., Altria Group Distribution Company, and Altria Client Services LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	RE49,114	6/28/2022	JUUL Labs, Inc.
2	10,130,123	11/20/2018	JUUL Labs, Inc.
3	10,709,173	7/14/2020	JUUL Labs, Inc.
4	11,134,722	10/5/2021	VMR Products LLC
5	11,606,981	3/21/2023	VMR Products LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
DEBRA LUCAS	Marella G Ruiz	7/6/23

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**