

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/451,483	Filing Date 06/25/2019	☐ 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), (l), 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(j))	minus 20 =	*		x \$50 =		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x \$230 =		
☐ 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	06/25/2019	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(j))	* 20	Minus ** 20	= 0	x \$50 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus *** 3	= 0	x \$230 =	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
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(j))	*	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.					LDRC	
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".					/EVA V GILLIS/	
*** 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Gregory D. Conley et al.

Serial No: (Cont. of 15/377,522)

Filed: June 25, 2019

For: ELECTRONIC VAPORIZER

Prior Application Information:

Group Art Unit: 3761

Examiner: Thor S. Campbell

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

Dear Sir:

CONTINUING APPLICATION TRANSMITTAL

Transmitted herewith for filing is a ☒ Continuation ☐ Divisional ☐ Continuation-In-Part application under 37 C.F.R. § 1.53(b) of prior patent Application No. 15/377,522, filed December 13, 2016.

- ☒ Applicant claims small entity status under 37 C.F.R. §§ 1.9 and 1.27.
- ☒ Application Data Sheet 37 CFR 1.76 is enclosed.
- ☒ 41 total application pages including specification, claims (20 total and 3 independent), and abstract are enclosed.
- ☐ A newly executed Declaration ☐ is enclosed ☐ will follow.
- ☒ A copy of the Declaration from the prior application is enclosed.
The entire disclosure of the prior application, from which an oath or declaration is supplied, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.
- ☒ 6 sheets of drawings (8.5 x 11; Figs. 1-9) are enclosed.
- ☒ An Assignment to FUMA INTERNATIONAL, LLC is being electronically filed concurrently herewith via EPAS.
- ☒ The power of attorney in the prior application is to at least one of the following: MARTIN & FERRARO, LLP; Thomas H. Martin, Reg. No. 34,383; and Amedeo F. Ferraro, Reg. No. 37,129.
 - ☐ A new Power of Attorney along with the requisite Transmittal is enclosed.
 - ☒ A copy of the Power of Attorney and corresponding Statement Under 3.73(c) in the prior application is enclosed along with the requisite Transmittal.
- ☐ A certified copy of _____ Patent Application No. _____ filed _____ from which priority is claimed under 35 U.S.C. § 119 is enclosed.
- ☒ Information Disclosure Statement (IDS) with Form PTO/SB/08 is enclosed.
- ☐ Amend the specification by rewriting paragraph 1 on page 1 to read as follows:
--This is a ☐ continuation ☐ divisional of application Serial No. _____, filed _____, and claims benefit of U.S. Provisional application No. _____, filed _____, all of which are incorporated herein by reference.--.
- ☐ Cancel Claims _____.
- ☒ An Amendment is enclosed.

Transmittal for Continuing Application

NJOY Exhibit 2029.002
Juul v. NJOY
IPR2024-00161

CALCULATION OF FEES							
ITEM		TOTAL NO. OF CLAIMS		NO. OF CLAIMS OVER BASE	LG/SM \$ ENTITY FEE		\$ FEE
A	TOTAL CLAIMS FEE	20	-20	0	LG=\$100 SM=\$50	\$50	\$ 0
B	INDEPENDENT CLAIMS FEE*	3	-3	0	LG=\$460 SM=\$230	\$230	\$ 0
C	SUBTOTAL - ADDITIONAL CLAIMS FEE (ADD FINAL COLUMN IN LINES A + B)						\$ 0
D	MULTIPLE-DEPENDENT CLAIMS FEE				LARGE ENTITY FEE = \$820 SMALL ENTITY FEE = \$410		\$ 0
E	BASIC FEE				LARGE ENTITY FEE = \$300 SMALL ENTITY FEE = \$150 EFS SMALL ENTITY FEE = \$75		\$ 75
F	SEARCH FEE				LARGE ENTITY FEE = \$660 SMALL ENTITY FEE = \$330		\$ 330
G	EXAMINATION FEE				LARGE ENTITY FEE = \$760 SMALL ENTITY FEE = \$380		\$ 380
H	TOTAL BASIC, SEARCH & EXAMINATION FEES (ADD TOTALS FOR LINES D-G)						\$ 785
ITEM		TOTAL SHEETS Application and Drawings	Disc. for Filing Via EFS	TOTAL EXTRA SHEETS	NO. OF ADD'T'L 50 OR FRACTION THEREOF		LG/SM \$ ENTITY FEE
I	APPLICATION SIZE	57	*.75	0	- 100 = 0 / 50 = 0		LG=\$400 SM=\$200 \$400
J	NON-ELECTRONIC FILING FEE (additional fee for applications filed in paper)					LG=\$400 SM=\$200	\$400
K	TOTAL FILING FEES (ADD TOTALS FOR LINES C, H, I AND J)						\$ 785

☒ The total amount of \$785 to cover the above fees is being paid via EFS.

☒ Correspondence Address: Customer No. 22882
Martin & Ferraro, LLP
1557 Lake O'Pines Street, NE
Hartville, Ohio 44632
Telephone: (330) 877-0700

☒ The Commissioner is hereby authorized to charge any deficiency for the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-1068.

☒ Any additional filing fees required under 37 C.F.R. § 1.16

☒ Any patent application processing fees under 37 C.F.R. § 1.17

PETITION FOR EXTENSION. If any extension of time is necessary for the filing of this application, including any extension in the parent application, Serial No. 15/377,522, filed December 13, 2016, for the purpose of maintaining copendency between the parent application and this application, and such extension has not otherwise been requested, such an extension is hereby requested, and the Commissioner is authorized to charge necessary fees for such an extension to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: June 25, 2019

1557 Lake O'Pines Street, NE
Hartville, Ohio 44632
Telephone: (330) 877-0700

By:


Thomas H. Martin
Registration No. 34,383

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	269.0003-03000
		Application Number	
Title of Invention	ELECTRONIC VAPORIZER		
<small>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.</small>			

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.)
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Inventor Information:

Inventor	1	<button>Remove</button>			
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Gregory	D.	Conley		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Medina	State/Province	OH	Country of Residence	US
Mailing Address of Inventor:					
Address 1	664 Tremain Place				
Address 2					
City	Medina	State/Province	OH		
Postal Code	44256	Country	US		
Inventor	2	<button>Remove</button>			
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Daniel	C.	Hillenbrandt		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Brunswick	State/Province	OH	Country of Residence	US
Mailing Address of Inventor:					
Address 1	1920 George Drive				
Address 2					
City	Brunswick	State/Province	OH		
Postal Code	44212	Country	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. <button>Add</button>					

Correspondence Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	269.0003-03000
		Application Number	
Title of Invention	ELECTRONIC VAPORIZER		

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

Customer Number	22882		
Email Address	USPTO-docketing@martinferraro.com	<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	ELECTRONIC VAPORIZER		
Attorney Docket Number	269.0003-03000	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	Suggested Figure for Publication (if any)	1

Filing By Reference:

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	☒ Customer Number	US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	22882		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	269.0003-03000
		Application Number	
Title of Invention	ELECTRONIC VAPORIZER		

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	15/377522	2016-12-13		
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15/377522	Continuation of	14/510955	2014-10-09	9532604	2017-01-03
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14/510955	Continuation of	13/594813	2012-08-25	8897628	2014-11-25
Prior Application Status	Abandoned	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
13/594813	Continuation in part of	12/843917	2010-07-27		
Prior Application Status	Expired	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
13/594813	Claims benefit of provisional	61/527434	2011-08-25		
Prior Application Status	Expired	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
12/843917	Claims benefit of provisional	61/273097	2009-07-31		
Prior Application Status	Expired	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
12/843917	Claims benefit of provisional	61/271819	2009-07-27		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button. Add					

Foreign Priority Information:

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	269.0003-03000
		Application Number	
Title of Invention	ELECTRONIC 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).

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.

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	269.0003-03000
		Application Number	
Title of Invention	ELECTRONIC 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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	269.0003-03000
		Application Number	
Title of Invention	ELECTRONIC 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:			
<div></div>			
Name of the Deceased or Legally Incapacitated Inventor: <div></div>			
If the Applicant is an Organization check here. ☒			
Organization Name	FUMA INTERNATIONAL, LLC		
Mailing Address Information For Applicant:			
Address 1	879 Progress Drive, Suite C		
Address 2			
City	Medina	State/Province	OH
Country	US	Postal Code	44256
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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	269.0003-03000
		Application Number	
Title of Invention	ELECTRONIC 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.				
<input type="button" value="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. <input type="button" value="Add"/>				

Signature: <input type="button" value="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	/Thomas H. Martin/		Date (YYYY-MM-DD)	2019-06-25
First Name	Thomas	Last Name	Martin	Registration Number
				34383
Additional Signature may be generated within this form by selecting the Add button. <input type="button" value="Add"/>				

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	269.0003-03000
		Application Number	
Title of Invention	ELECTRONIC 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 Cooperation Treaty.
- 6 A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7 A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8 A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 9 A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Gregory D. Conley et al.)
Serial No.: (Cont. of 15/377,522)) (Group Art Unit: 3761)
Filed: June 25, 2019) (Examiner: Thor S. Campbell)
For: ELECTRONIC VAPORIZER)

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

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Information Disclosure Statement is being filed concurrently with the above-referenced continuation application.

Copies of the listed non-U.S. patent documents were previously submitted in a prior application, Serial No. 15/377,522 filed December 13, 2016, Serial No. 14/510,955 filed October 9, 2014 (now U.S. Patent No. 9,532,604), Serial No. 13/594,813 filed August 25, 2012 (now U.S. Patent No. 8,897,628), and/or Serial No. 12/843,917 filed July 27, 2010 (now abandoned); upon which Applicant relies for the benefits provided in 35 U.S.C. § 120. Applicant also brings to the attention of the Examiner the file history (the Office Actions and responses) of each of the above-referenced patents and applications. While the individual Office Actions and responses are not attached hereto, they are available in each of the file wrappers in the Patent Office, through PAIR, or will be provided by the Applicant at the Examiner's request.

Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Applicant brings to the attention of the Examiner the existence of a recently filed litigation proceeding, i.e., Civil Action No. 19-260 in the U.S. District Court for the Middle District of North Carolina, asserting infringement of U.S. Patent No. 9,532,604. The '604 patent issued from application serial no.14/510,955, which is the parent of application serial no. 15/377,522.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: June 25, 2019

By: 
Thomas H. Martin
Registration No. 34,383

1557 Lake O'Pines Street, NE
Hartville, Ohio 44632
Telephone: (330) 877-0700

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number (Cont. of 15/377,522)	
(Use several sheets if necessary) Sheet <u>1</u> of <u>4</u>			Filing Date June 25, 2019		Art Unit (3742)	Examiner (T.S. Campbell)
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2057353	9/1935	Whittemore, Jr.			
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	4947874	8/1990	Brooks			
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INFORMATION DISCLOSURE STATEMENT

Application Number: (Cont. of 15/377,522)

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INFORMATION DISCLOSURE STATEMENT

Application Number: (Cont. of 15/377,522)

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FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	CN200966824	10/2007	CN			Yes
	CN201018927	02/2008	CN			Yes
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	201238610	5/2009	CN			Abstract Only
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	WO2007/131449	11/2007	WIPO			Yes
	WO2007/078273	7/2007	WIPO			N/A
	WO2010/091593	8/2010	WIPO			Abstract Only
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Wikipedia; Electronic cigarette – Wikipedia, the free encyclopedia; Feb. 9, 2010; http://web.archive.org/web/20100209122659/http://en.wikipedia.org/wiki/Electronic_cigarette					
	Complaint for Patent Infringement with exhibits as filed 06MAR2019; United States District Court for the Middle District of North Carolina; Civil Action No. 1:19-cv-00260.					
	Defendant R.J. Reynolds Vapor Company's Answer, Affirmative Defenses and Counterclaim to Complaint for Patent Infringement with exhibits as filed 29APR2019; United States District Court for the Middle District of North Carolina; Civil Action No. 1:19-cv-00260.					
	Crown 7 HYDRO device; https://www.youtube.com/watch?v=tQNFFw8A_DI (YouTube video published on 10DEC2008).					
	NJOY NPRO device; https://www.youtube.com/watch?v=TBdX24ALpLY (YouTube video published on 5DEC2008).					
	Smoke 51 Devices as disclosed on page 53 and listed on page 54 of the 29APR2019 Defendant's Answer in Civil Action No. 1:19-cv-00260.					
EXAMINER		DATE CONSIDERED				
EXAMINER: Initial if citation 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 the applicant.						

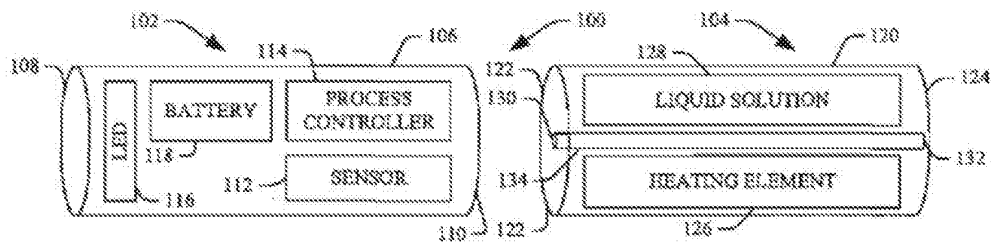


FIG. 1

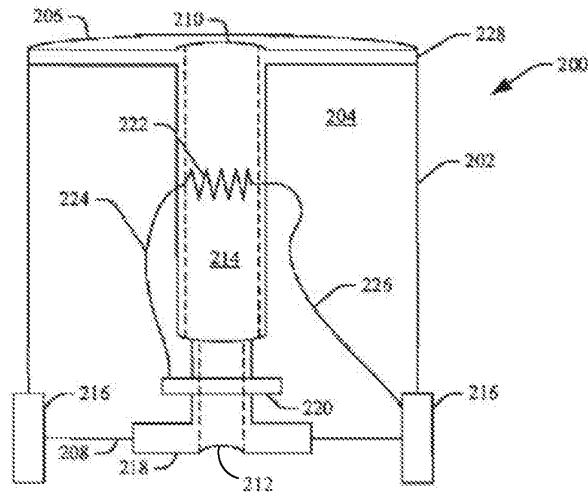


FIG. 2

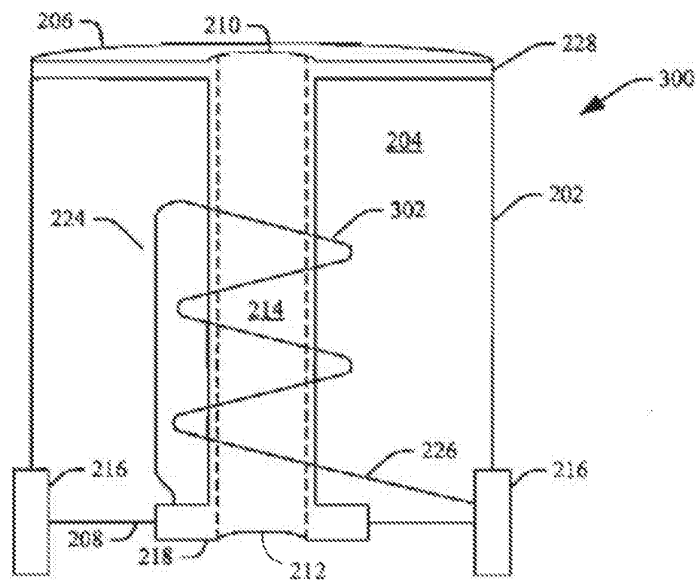


FIG. 3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
Gregory D. Conley et al.	)	
Serial No.: (Cont. of 15/377,522)	)	(Group Art Unit: 3742)
Filed: June 25, 2019	)	(Examiner: Thor S. Campbell)
For: ELECTRONIC VAPORIZER	)	

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

Sir:

AMENDMENT

Prior to the examination of the above-identified application, the following amendments and remarks are submitted:

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

Amendments to the Claims are reflected in the listing of claims, which begins on page 3 of this paper.

Amendments to the Drawings begin on page 9 of this paper and include both an attached replacement sheet and an annotated sheet showing changes.

Remarks begin on page 10 of this paper.

An **Appendix** including amended drawing figures is attached following page 10 of this paper.

Amendments to the Specification:

Please replace the opening Continuation Data paragraph on page 1 with the following paragraph:

--This Application is a continuation of U.S. Application No. 15/377,522 filed December 13, 2016, which is a continuation of U.S. Application No. 14/510,955 filed October 9, 2014, which is a continuation of U.S. Application No. 13/594,813, filed August 25, 2012, which is a non-provisional of U.S. Provisional Application No. 61/527,434 filed August 25, 2011 and which is a continuation-in-part of U.S. Application No. 12/843,917 filed July 27, 2010, which is a non-provisional of U.S. Provisional Application Nos. 61,273,097 filed July 31, 2009 and 61/271,819 filed July 27, 2009. All these applications are hereby incorporated herein by reference in their entirety.--

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20. (cancelled)

21. An apparatus comprising:

a power source,

wherein the power source includes a battery,

wherein the power source includes an electrically conductive portion; and

a cartridge having a housing that comprises an interior,

wherein the housing includes a first end and a second end that is opposite the first end, wherein the housing includes a first aperture on the first end and a second aperture on the second end,

wherein the housing includes an airflow passageway that extends centrally and axially with respect to the housing intermediate of the first aperture on the first end of the housing and the second aperture on the second end of the housing,

wherein the airflow passageway is configured to allow an airflow through the cartridge from the first aperture to the second aperture of the housing,

wherein the first end of the housing includes an electrically conductive portion that is adapted to mechanically and electrically couple to the electrically conductive portion of the power source,

wherein the housing includes a solution holding medium adapted to hold a solution in the interior of the housing,

wherein the housing includes a heating element located in the interior of the housing, wherein the heating element extends transversely

across the airflow passageway, wherein the airflow through the passageway passes on both transverse sides of the element,

wherein the solution holding medium surrounds the airflow passageway and the heating element in the interior of the housing and intermediate of the first end and the second end,

wherein the heating element is electrically configured to vaporize at least a portion of the solution to be contained in the solution holding medium for oral provision to an individual in an airflow from the second aperture responsive to electrical power received from the battery through the electrically conductive portions of the cartridge and the power source.

22. The cartridge of claim 21, wherein the heating element is a coil having a maximum diameter, the airflow passageway having a length having a circular cross section having a diameter along a majority of the length, the maximum diameter of the coil being smaller than the diameter of the circular cross section of the length of the airflow passageway.
23. The cartridge of claim 22, wherein the first aperture on the first end is located centrally and axially with respect to the housing, the first aperture having a cross-sectional area measured perpendicular to a central longitudinal axis of the housing, the interior of the airflow passageway between the heating element and the second aperture being no smaller in cross-sectional area than the cross-sectional area of the first aperture.
24. The cartridge of claim 23, wherein the first aperture on the first end is smaller than the second aperture on the second end.
25. The cartridge of claim 21, wherein the solution holding medium includes at least one of an absorbent material and a reservoir.
26. The cartridge of claim 21, further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine.
27. The cartridge of claim 21, wherein the airflow passageway has a uniform cross-sectional area measured perpendicular to a central longitudinal axis of the housing between the heating element and the second aperture.

28. A cartridge configured to mechanically and electrically couple to a power source of an electronic vaporizer, the cartridge comprising:

a housing having an interior and a solution holding medium reservoir adapted to hold a solution, the housing having a first end and a second end that is opposite the first end, the housing having a first aperture on the first end and a second aperture on the second end, the first end of the housing having an electrically conductive portion adapted to mechanically and electrically couple to the electrically conductive portion of the power source;

an airflow passageway in the interior of the housing extending centrally and axially with respect to the housing intermediate of the first aperture on the first end of the housing and the second aperture on the second end of the housing, the airflow passageway being configured to allow an airflow through the cartridge from the first aperture to the second aperture of the housing; and

a heating element located in the interior of the housing, the heating element being located within and extending transversely across the airflow passageway, the airflow through the passageway passing on both transverse sides of the heating element, both the heating element and the airflow passageway being surrounded by the solution holding medium reservoir, the heating element being electrically configured to vaporize at least a portion of the solution to be contained in the solution holding medium reservoir for oral provision to an individual in an airflow from the second aperture responsive to electrical power received from the battery through the electrically conductive portions of the cartridge and the power source.

29. The cartridge of claim 28, further in combination with the power source including a battery and the electrically conductive portion, the electrically conductive portion of the power source being mechanically and electrically coupled to the electrically conductive portion of the first end of the housing.

30. The cartridge of claim 29, wherein the heating element is a coil having a maximum diameter, the airflow passageway having a length having a circular cross section having a diameter along a majority of the length, the maximum diameter of the coil being smaller than the diameter of the circular cross section of the length of the airflow passageway.
31. The cartridge of claim 30, wherein the first aperture on the first end is located centrally and axially with respect to the housing, the first aperture having a cross-sectional area measured perpendicular to a central longitudinal axis of the housing, the interior of the airflow passageway between the heating element and the second aperture being no smaller in cross-sectional area than the cross-sectional area of the first aperture.
32. The cartridge of claim 31, wherein the first aperture on the first end is smaller than the second aperture on the second end.
33. The cartridge of claim 28, wherein the solution holding medium reservoir includes an absorbent material.
34. The cartridge of claim 28, further comprising a solution in the solution holding medium reservoir, the solution comprising one of propylene glycol and nicotine.
35. The cartridge of claim 28, wherein the airflow passageway has a uniform cross-sectional area measured perpendicular to a central longitudinal axis of the housing between the heating element and the second aperture.
36. A cartridge configured to mechanically and electrically couple to a power source of an electronic vaporizer, the cartridge comprising:
 - a housing having an interior and a solution holding medium adapted to hold a solution in the interior of the housing, the housing having a first end and a second end that is opposite the first end, the housing having a central longitudinal axis extending through the first end and the second end, the housing having a first aperture on the first end and a second aperture on the second end, the first aperture having a cross-sectional area measured perpendicular to the central longitudinal axis of the housing, the first end of the housing having an

electrically conductive portion adapted to mechanically and electrically couple to an electrically conductive portion of the power source;

an airflow passageway in the interior of the housing, the airflow passageway having a length extending centrally and axially with respect to the housing intermediate of the first aperture on the first end of the housing and the second aperture on the second end of the housing, the airflow passageway being configured to allow an airflow through the cartridge from the first aperture to the second aperture of the housing, the airflow passageway having an exterior adjacent to the solution holding medium along a majority of the length of the airflow passageway, the airflow passageway having an interior having a uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing and extending continuously along a majority of the length of the airflow passageway; and

a heating element located in the interior of the housing and extending transversely across the airflow passageway, the airflow through the passageway passing on both transverse sides of the heating element, a plane perpendicular to the central longitudinal axis of the housing passing through the heating element and the solution holding medium, the airflow passageway having an interior between the heating element and the second aperture no smaller in cross-sectional area than the cross-sectional area of the first aperture, the heating element being connected to the electrically conductive portion of the first end of the housing, the heating element being electrically configured to vaporize at least a portion of the solution to be contained in the solution holding medium for oral provision to an individual in an airflow from the second aperture responsive to electrical power received from the power source through the electrically conductive portion of the cartridge.

37. The cartridge of claim 36, further in combination with the power source including a battery and the electrically conductive portion, the electrically conductive portion of the power source being mechanically and electrically coupled to the electrically conductive portion of the first end of the housing.

38. The cartridge of claim 36, wherein the heating element is a coil having a maximum diameter and the uniform cross-sectional area of the airflow passageway is a circle having a diameter, the maximum diameter of the coil being smaller than the diameter of the circle of the uniform cross-sectional area of the airflow passageway.
39. The cartridge of claim 38, wherein the first aperture on the first end is located centrally and axially with respect to the housing.
40. The cartridge of claim 39, wherein the first aperture on the first end is smaller than the second aperture on the second end.

Amendments to the Drawings:

The attached replacement sheets of drawings include changes to Figs. 2 and 3, which add previously omitted element 212.

Attachment: Replace Sheets

REMARKS

Applicant amended the continuity data, cancelled claims 1-20 and added new claims 21-40, and amended Figs. 2 and 3 to add previously omitted element 212 to further define applicants invention.

Entry and consideration of this Amendment prior to the examination of the above-identified application is respectfully requested.

If there are any fees due in connection with the filing of this Amendment, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: June 25, 2019

By: 
Thomas H. Martin
Registration No. 34,383

1557 Lake O'Pines Street, NE
Hartville, Ohio 44632
Telephone: (330) 877-0700

Doc Code: PA..

Document Description: Power of Attorney

PTO/AIA/82A (07-13)

Approved for use through 11/30/2014. OMB 0651-0051

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Application Number	(Cont. of 15/377,522)
Filing Date	June 25, 2019
First Named Inventor	Gregory D. Conley
Title	ELECTRONIC VAPORIZER
Art Unit	(3761)
Examiner Name	(Thor S. Campbell)
Attorney Docket Number	269.0003-03000

SIGNATURE of Applicant or Patent Practitioner

Signature	/Thomas H. Martin/	Date (Optional)	2019-06-25
Name	Thomas H. Martin	Registration Number	34383
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
☒ *Total of <u>1</u> forms are submitted.			

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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I hereby appoint:

☒

Practitioners associated with Customer Number:

22882

OR

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Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

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Assignee name and address: FUMA INTERNATIONAL, LLC
879 South Progress Drive, Suite C
Medina, Ohio 44256

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature *Gregory D. Conley*

Date *May 31st, 2018*

Name Gregory D. Conley

Telephone *330-321-1711*

Title *President*

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 18 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: FUMA INTERNATIONAL, LLC
Application No./Patent No.: (Cont. of 15/377,522) Filed/Issue Date: June 25, 2019
Titled: ELECTRONIC VAPORIZER
FUMA INTERNATIONAL, LLC, a limited liability company

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is ____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

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4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 047383, Frame 0752, or for which a copy thereof is attached.
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

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[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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STATEMENT UNDER 37 CFR 3.73(c)

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☐ Additional documents in the chain of title are listed on a supplemental sheet(s).☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Thomas H. Martin/

2019-06-25

Signature

Date

Thomas H. Martin

34383

Printed or Typed Name

Title or Registration Number

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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FUMA-1001 CIP2C

Title: ELECTRONIC VAPORIZER

CONTINUATION DATA

This Application is a continuation of U.S. Application No. 14/510,955 filed October 9, 2014, which is a continuation of U.S. Application No. 13/594,813 filed August 25, 2012, which is a non-provisional of U.S. Provisional Application No. 61/527,434 filed August 25, 2011 and which is a continuation-in-part of U.S. Application No. 12/843,917 filed July 27, 2010, which is a non-provisional of U.S. Provisional Application Nos. 61/273,097 filed July 31, 2009 and 61/271,819 filed July 27, 2009. All these Applications are hereby incorporated herein by reference in their entirety.

BACKGROUND

[0001] Electronic cigarettes (also referred to as e-cigarettes or personal vaporizers) are generally battery-powered devices that are configured to deliver a vapour that comprises nicotine to an individual. Conventional electronic cigarette designs generally include a battery, a heating element, and a mouthpiece. The mouthpiece includes a liquid solution that comprises nicotine, and the battery provides power to the heating element, which in turn operates to vaporize the solution. Accordingly, when the user places the mouthpiece in her mouth and draws from the mouthpiece, the user receives vaporized nicotine. Due to the ever-increasing taxes on tobacco products, popularity of electronic cigarettes is expected to continue to correspondingly increase.

SUMMARY

[0002] The following is a brief summary of subject matter that is described in greater detail herein. This summary is not intended to be limiting as to the scope of the claims.

[0003] Described herein are various aspects generally pertaining to electronic vaporizers, and more particularly pertaining to cartridges that comprise heating elements configured to vaporize a solution. In an exemplary embodiment, a cartridge configured for utilization in connection with an electronic vaporizer comprises a housing that has an interior, a first end, and a second end. The housing is constructed of one of a polymer, wood, ceramic or any combination thereof. The cartridge can also include a heating element that resides in the interior of the housing. The cartridge can be manufactured as a single assembly or can be designed so that the cartridge can be manufactured as a multi-piece assembly. The cartridge also comprises a solution that is positioned proximate to the heating element. The heating element is configured to vaporize the solution responsive to receiving power from a power source (e.g., a battery). Pursuant to an example, the cartridge can be designed for utilization as a portion of an electronic cigarette. Accordingly, the solution may comprise nicotine or other components. Furthermore, the solution can be configured such that the vapor has a flavor when received by a user as well as other ingredients.

[0004] Additionally, an adapter is described herein, wherein the adapter is configured to electrically or electronically couple a power source (such as a battery) having a first configuration with a heating element having a second configuration. Specifically, manufacturers of vaporizers generally manufacture a power source and a heating element in a proprietary manner, such that only a heating element provided by the manufacturer can be electrically or electronically coupled to a power source provided by the manufacturer. Typically, the power source (battery) is significantly more expensive than associated cartridges, and once a user purchases a power source they may not wish to purchase a different power source from a different manufacturer even if the tastes of the user change over time. The adapters described

herein are configured to electrically or electronically couple power sources from a first manufacturer with a heating element from a second manufacturer.

[0005] The aforementioned adapter can provide for air flow (both direct and indirect), electrical and or electronic connection, data connections as well as power or an external heating source. The adapter may also incorporate onboard circuitry and/or sensors for collecting data from the adapter.

[0006] Other aspects will be appreciated upon reading and understanding the attached figures and description.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] Fig. 1 is a functional block diagram of an exemplary electronic vaporizer.

[0008] Fig. 2 is an exemplary configuration of a cartridge for utilization in an electronic vaporizer.

[0009] Fig. 3 is an exemplary configuration of a cartridge for utilization in an electronic vaporizer.

[0010] Fig. 4 is a functional block diagram of an exemplary electronic vaporizer.

[0011] Fig. 5 is a functional block diagram of an exemplary package of cartridges.

[0012] Fig. 6 is a flow diagram illustrating an exemplary methodology for manufacturing a cartridge for employment in an electronic vaporizer.

[0013] Fig. 7 is a functional block diagram of an exemplary adaptor.

[0014] Fig. 8 is a functional block diagram of an exemplary adaptor.

[0015] Fig. 9 is a functional block diagram of an exemplary electronic vaporizer that includes a power harvesting device.

DETAILED DESCRIPTION

[0016] Various technologies pertaining to electronic vaporizers will now be described with reference to the drawings, where like reference numerals represent like elements throughout. In addition, several functional block diagrams of exemplary electronic vaporizers, cartridges, and/or adapters are illustrated and described herein for purposes of explanation; however, it is to be understood that functionality that is described as being carried out by certain components of the electronic vaporizers may be performed by multiple separate components. Similarly, for instance, a component may be configured to perform functionality that is described as being carried out by multiple components.

[0017] With reference to Fig. 1, an exemplary electronic vaporizer 100 is illustrated. Pursuant to an example, the electronic vaporizer 100 may be an electronic cigarette that is configured to deliver a vaporized nicotine solution to a user thereof. It is to be understood, however, that the electronic vaporizer 100 may be utilized for other purposes, including deliverance of various vaporized solutions to the user for recreational or medicinal purposes.

[0018] The electronic vaporizer 100 comprises a power source 102 and a cartridge 104. The power source 102 and the cartridge 104 are configured to be mechanically and electrically coupled to one another. For example, the cartridge 104 may comprise an electrically conductive threaded fastener, and the power source 102 may comprise an electrically conductive threaded receiver. The threaded fastener and the threaded receiver can be coupled to one another, thereby mechanically and electrically coupling the power source 102 with the cartridge 104. Of course, other types of connection mechanisms that can mechanically and electrically couple the power source 102 with the cartridge 104 are contemplated and are intended to fall under the scope of the hereto-appended claims. These include magnetic connection mechanisms, snaps, twist caps,

push on connections, gasketed connections, quick connection mechanisms, turn lock mechanisms, t-bar connections, etc.

[0019] The power source 102 comprises a housing 106, which may be manufactured from a metal, a polymer, a ceramic, or some other suitable material. As used herein, a “polymer” can refer to a formulation of manufactured materials comprising plastics, PVC, and/or some other compound that derives from the classification of a polymer or polymer derivative. A “ceramic” refers to a compound that is classified or derivative of such compound that are derived from clay or man-made materials that are listed in a suitable classification scheme as being a ceramic, which may include compounds that are derived with some portion of the compound being ceramic in nature that is a blended or compounded material.

[0020] In the example shown and described with respect to Fig. 1, the housing 106 is cylindrical in nature. It is to be understood, however, that the housing 106 may be any suitable shape. As shown, the housing 106 comprises a first end 108 and a second end 110 that is opposite the first end 108, and also includes an interior. While not shown, the second end 110 can comprise an aperture, wherein the aperture is configured to receiver airflow from a user. A switch/sensor 112 resides on the interior of the housing 106. The power source 102 also includes a process controller 114 that is in electrical communication with the switch/sensor 112. The process controller 114, for example, can be a microchip that is configured to cause the power source 102 to operate as desired when the electronic vaporizer 100 is utilized by a user. A light emitting diode (LED) 116 is positioned proximate to the first end 108 of the housing 106. A battery 118 resides in the interior of the housing 106, and is electrically coupled to the LED 116, the process controller 114, and the switch/sensor 112. The process controller 114 controls operation of the LED 116 based at least in part upon output of the switch/sensor 112.

[0021] The cartridge 104 comprises a housing 120 that has an interior. The cartridge 104 also comprises a first end 122 and a second end 124, which may be considered as a portion of the housing 120 or apart from the housing 120. The housing 120 of the cartridge is manufactured from a non-metallic material, such as a polymer material or a ceramic material. In an example, the polymer may be a conductive polymer. As shown, the housing 120 is cylindrical in shape. It is to be understood, however, that the housing 120 may be of some other suitable shape. Moreover, the housing 120 may comprise only a cartridge wall (that can be cylindrical as well as other shapes). In another example, the housing 120 may comprise the cylindrical wall and two end-caps, all constructed of the polymer material or the ceramic material. In still yet another embodiment, the housing 120 may comprise the cartridge wall and a single end-cap. One or more end-caps described herein may be constructed from conductive material, such as metal, a conductive polymer, or the like.

[0022] A heating element 126 resides in the interior of the housing 120. The heating element 126 may be or include any suitable technology for outputting heat, including resistive heating, laser-based heating, flame, etc. It is to be understood that other technologies can be utilized other than heat to vaporize a liquid solution, including but not limited to ultrasonic technologies, ultraviolet technologies, chemical technologies, etc. Therefore, another state-changing apparatus may be substituted for the heating element 126.

[0023] A liquid, gelatin, frozen or solid solution (solution) 128 also resides in the interior of the housing 120, wherein the solution can be suspended in an absorbent material, capsule, or reservoir, wherein such devices may act as the holding medium for the solution 128. The solution 128 may be a mixture that is configured to deliver a particular substance in vaporized form to the user when the solution 128 changes state to a gaseous solution (e.g., subsequent to a

sufficient amount of heat being provided to the solution 128). In an example, such substance can be nicotine. In another example, the substance may be tobacco, THC, and/or any derivative thereof. Other substances are also contemplated, such as but not limited to caffeine, vitamins, herbal substances, and any other substance deemed necessary to achieve intended goals, including those that may be desirably delivered to a user for medicinal purposes. In other examples, the substances may include various pharmaceuticals or medications. Thus, as used herein a solution can refer to an element, compound, or substance that is blended, formulated or compounded to be used in the vaporizer 100 in order to deliver the user desired effects and or taste. The solution 128 may be in liquid state, gaseous state, gelatin state, frozen state or solid state.

[0024] The first end 122 of the cartridge 104 comprises a first aperture 130 that is located at approximately the center of the first end 122 of the cartridge 104. The second end 124 comprises a second aperture 132 that is located at approximately the center of the second end 124 of the cartridge 104. An airflow passageway 134 extends between the first aperture 130 and the second aperture 132 axially proximate to the center of the housing 120.

[0025] In operation, the user mechanically and electrically couples the power source 102 with the cartridge 104. Specifically, the battery 118 is electrically coupled to the heating element 126 when the power source 102 is mechanically coupled to the cartridge 104. The user places the second end 124 of the cartridge 104 in her mouth, and draws air through the airflow passageway 134. The switch/sensor 112 in the power source 106 is configured to detect the drawing of air through the airflow passageway 134, and an electric circuit is closed between the battery 118 and the heating element 126. The process controller 114 controls an amount of voltage/current to be received by the heating element 126 from the battery 118, such that the

heating element 126 receives an appropriate amount of electrical current/voltage. The heating element 126 outputs a sufficient amount of heat to vaporize at least a portion of the solution 128, and the user receives the vaporized solution orally. When the user ceases to draw air by way of the air passageway 134, the sensor/switch 112 detects the lack of airflow in the air passageway 134, and the electric circuit between the battery 118 and the heating element 126 is opened (e.g., directly by the sensor/switch 112 or responsive to receipt of instructions from the process controller 114) with or without delay circuitry built into the control. Manual switching or activation of the power source is also an option.

[0026] With respect to the power source 102, the battery 118 may be any suitable disposable, replaceable and/or rechargeable battery, including but not limited to a alkaline, lead acid battery, gel, a nickel cadmium battery, a nickel metal hydride battery, a lithium ion battery, a lithium ion polymer battery, amongst others. Other power sources may also be used in place of a battery such as direct power from any DC, AC or alternative energy source including inductive, solar, chemical, perpetual motion, etc. that can be used to power a heating source. Indirect or direct flame may also be used as a power source as appropriate to trigger the state change of the solution 128 from an initial state to a gaseous aerosol state. As mentioned previously, the process controller 114 can be a microchip or microcontroller that operates as desired when used (or not used) by an individual in regards to the electronic vaporizer 100. Thus, the process controller 114 can receive readings from the switch/sensor 112, and can cause the voltage/current to be supplied to the heating element 126 in the cartridge 104 as a function of such readings. The switch/sensor 112 can be a switch, a sensor, or a combination of a switch and sensor. For instance, the switch/sensor 112 may comprise an electronic airflow sensor, wherein the electronic airflow sensor senses when the user is drawing on the electronic cigarette 100.

Additionally or alternatively, the switch/sensor 112 may comprise a tactile sensor that is configured to sense that the user has depressed a tactile button on the cartridge 104 and/or the power source 102. That is, the user depresses a button to activate the heating element and draw the vaporized solution from the electronic vaporizer 100. Still further, the switch/sensor 112 may comprise a timed switch that opens the circuit between the battery 118 and the heating element 126 after the circuit has been closed for a threshold amount of time. There are a variety of switches and sensor that can be used to detect air flow and/or pressure that can be utilized to activate the heating element.

[0027] With respect to the cartridge 104, as mentioned previously, the main body of the housing 120 is constructed of a polymer. The first end 122 and the second end 124 may be or include end caps, wherein such end caps may be constructed of the polymer. In an exemplary embodiment, an end cap coupled to the first end 122 may at least be partially constructed of a conductive material, such as a conductive metal or a conductive polymer. Furthermore, a wood tip may be positioned upon the second end 124, wherein the wood tip is configured to be received orally by the user. In alternative embodiments, the second end 124 may include a tip comprised of a soft, malleable and/or a flexible polymer. Also in alternative embodiments, the second end 124 may include a paper wrapping around the tip of the second end in order to more closely simulate the tip of a conventional cigarette. Such a paper wrapping may further include flavorings capable of being tasted by a user (e.g., mint, tobacco, candy, fruit, or any other types of flavorings and/or aromas).

[0028] Additionally, as described above, the solution 128 may be placed in an absorbent material, such as cotton, wool, polyester, a batting material, or some other suitable absorbent material. A wicking material may be used in order to channel the liquid or gel to the heating

element. Pursuant to an example, the solution 128 may include a primary substance, such as propylene glycol, glycerin (both vegetable and manmade), glycerol and/or any combination thereof. Additionally, the solution 128 may comprise a portion of amount of a particular drug, such as nicotine, caffeine, THC, other stimulants or medicinal substance. Further, the solution 128 may comprise some amount of flavoring, such as tobacco flavoring, menthol flavoring, other suitable flavoring or any combination thereof.

[0029] Now turning to Fig. 2, a cutaway diagram of an exemplary cartridge 200 for utilization in an electronic personal vaporizer is illustrated. The cartridge 200 comprises a housing 202, which is constructed of a non-metallic material, such as a polymer, wood, ceramic, and/or any combination thereof. The housing 202 comprises an absorbent material 204 that has a liquid solution absorbed therein in a measured dose. The cartridge 200 includes a first end 206 and a second end 208 that is opposite the first end 206, wherein the first and second ends 206 and 208 can be removable caps, respectively. In an example, the first end 206 is formed of a polymer, and the second end 208 is formed of a conductive material, such as a conductive polymer or a conductive metal.

[0030] The first end 206 comprises a first aperture 210, and the second end 208 comprises a second aperture 212. As shown, the first aperture 210 and the second aperture 212 are positioned at approximately the centers of the first and second ends 206 and 208, respectively, such that a central axis of the cartridge 200 passes through both apertures 210 and 212. Both or either the first end 206 or second end 208 can be integrated into a single assembly as part of the housing 202. Additionally, the resulting assembly may or may not be able to be unassembled by the end user. An air passageway 214 begins at the first aperture 210 and extends to the second aperture 212 approximately along the central axis of the cartridge 200. For

example, the wall of the air passageway 214 may be constructed from a polymer or other suitable material.

[0031] The cartridge 200 further comprises a conductive element 216, at least a portion of which resides in the interior of the housing 202. For instance, the conductive element may be metallic threads that facilitate mechanically and electrically coupling the cartridge 200 with a power source (battery). The cartridge further comprises a center post 218 that extends from the second end 208 of the cartridge 202 to the airflow passageway 214, wherein the center post 218 is hollow to allow the airflow passageway 214 to extend through the center post 218 to the second aperture 212. In an example, the center post 218 can be formed of a conductive material, and may be constructed as being a portion of an end cap. An electrical isolator 220 is coupled to the center post 218 and extends outward from the center post 218. For instance, the electrical isolator 220 may be an O-ring or other suitable isolator.

[0032] The cartridge 200 further comprises a heating element 222 that is coupled to the electrical isolator 220 and the conductive element 216 in the interior of the housing 202 by way of conductive lines 224 and 226. The heating element 222 can comprise wicking material that draws the liquid solution from the absorbent material 204 towards the heating element 222. When the cartridge 200 is coupled to a power source, the conductive element 216 is electrically coupled to a negative terminal of the power source and the center post 218 (and thus the electrical isolator 220) is electrically coupled to a positive terminal of the power source. When a user draws a breath by way of the airflow passageway 214, a circuit is closed, thereby providing current to the heating element 222. The heating element 222 acts to vaporize the liquid solution in the absorbent material 204, and the resulting vapor is received by the user. Additionally, as shown, a gap 228 may exist between the first end 206 of the cartridge 200 and the absorbent

material 204. This gap 228 can be utilized to mix air and the vaporized liquid solution to provide the user with an appropriate amount of vaporized solution.

[0033] While the heating element 222 is shown as residing solely in the airflow passageway 214, it is to be understood that various other configurations of the heating element 222 with respect to the airflow passageway are contemplated and are intended to fall under the scope of the hereto-appended claims. In a first example, the heating element 222 may reside on the exterior of the airflow passageway 214, such that the heating element 222 heats the airflow passageway 214 by heating the wall of the airflow passageway 214. In a second example, the heating element 222 may reside on the interior and the exterior of the airflow passageway 214. In yet another example, as will be shown in greater detail below, the heating element 222 can be helical in nature and may wrap around the airflow passageway 214, which may be constructed of a ceramic. In such a design, the wall of the airflow passageway 214 may have apertures, be permeable, or be conductive to heat such that the vaporized liquid solution may be provided to the user. Furthermore, the airflow passageway 214 itself may act as a heating element, wherein the airflow passageway 214 is constructed from an electrically conductive and a thermally conductive material, such as a conductive ceramic. Accordingly, it is readily recognized that airflow may pass directly over the heating element, through a chamber that is proximate to the heating element, or other suitable configuration.

[0034] It is to be understood that the cartridge design shown in Fig. 2 is merely but one example of a cartridge design, and numerous other designs that cause a heating element to reside in a non-metallic housing together with a liquid solution that is desirably vaporized are contemplated.

[0035] Also, an alternative embodiment of a cartridge (adapted to mount to the described power source) may be configured to receive one or more capsules or pellets. Such capsules or pellets may be comprised of one or more medicines, vitamins, a tobacco, and/or other chemical(s) that the end user may desire to taste/consume. In such an embodiment, when the cartridge with a capsules is mounted to a power source (e.g. such as the power source 104 discussed above), the mechanical connection of the cartridge and power source may cause the capsule to open and release the contents therein. The end user may then provide a suction on the tip of the cartridge with his/her mouth in order to draw the released contents of the capsule into his/her mouth. In examples of this described embodiment, the capsule may be included in the cartridge during the manufacturing of the cartridge. However, it should be appreciated that in other embodiments, the cartridge may be designed to accept one or more capsules therein via a pharmacist and/or an end user prior to mounting the cartridge to a power source. Also it should be appreciated that this described example of the cartridge may also include a heating element therein that is configured to heat a capsule (or a pellet) to cause release of the contents of the capsule/pellet when the cartridge is mounted to the power source or when other actions are detected (e.g. a button press, suction through the cartridge).

[0036] Referring now to Fig. 3, another cutaway diagram of an exemplary cartridge 300 for utilization in an electronic personal vaporizer is illustrated. In this exemplary cartridge 300, the center post 218 may be of a conductive material, such as a conductive ceramic or a metallic material, and may act as a heating element. Thus, walls of the airflow passageway 214 may become heated when a user draws on the cartridge, thereby altering the state of the liquid solution in the absorbent material 204 to a vapor for provision to the user. Similar to the previously described exemplary cartridge 200 (Fig. 2), the gap 228 may exist to facilitate mixing

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of vaporized solution with air. This gap is optional, as other designs may call for the walls of the airflow passageway 214 to be permeable or have apertures therein, to allow for vaporized solution to mix with air in the airflow passageway 214.

[0037] In another exemplary embodiment, a heating element 302 may be helical in nature and may wrap around the exterior of the airflow chamber 214. The heating element in this case may also be an integrated material as part of the airflow chamber. The air flow chamber in all cases may be solid or porous in nature or have ventilation to allow for aerosol and air stream blending. The walls of the airflow chamber may be constructed of a thermally conductive material, such as a ceramic, which causes the walls of the heating element to generate a sufficient amount of heat to vaporize the liquid solution in the absorbent material 204. In such a design, the conductive lines 224 and 226 may be coupled to the center post 218 and the conductive element 216, respectively, thereby electrically coupling the heating element 302 to negative and positive terminals of a power source. When the user draws on the cartridge, current is provided to the heating element 302 by way of the conductive lines 224 and 226 from the power source. The heating element 302 then heats the walls of the airflow passageway 214 to a temperature that is sufficient to alter the state of the liquid solution in the absorbent material 204 when the user draws on the cartridge 300. Again, these designs are merely exemplary in nature, and various other designs are contemplated by the inventors and are intended to fall under the scope of the hereto-appended claims.

[0038] With reference now to Fig. 4, another exemplary electronic vaporizer 400 is illustrated. The exemplary electronic vaporizer 400 comprises three separate portions: 1) the power source 102; 2) a first cartridge 402 that comprises the heating element 126; and 3) a

second cartridge 404 (a mouthpiece cartridge) that comprises the solution 128. Operation of the power source 102 has been described above, and is not repeated here for sake of brevity.

[0039] The first cartridge 402 can comprise a housing 406 that is cylindrical in nature, wherein the housing 406 can be constructed from a non-metallic material such as a polymer or ceramic. The housing 406, of course, may be manufactured to be in a shape other than a cylinder. The first cartridge 402 includes a first end 408 and a second end 410 that is opposite the first end 408. The first end 408 of the first cartridge 402 is configured to be mechanically coupled to the second end 110 of the first cartridge 402. Mechanical coupling of the power source 102 and the first cartridge 402 causes the battery 118 to be electrically coupled to the heating element 126 as described above. The heating element 126 can be positioned proximate to the second end 310 of the first cartridge 402, and thus proximate to the solution 128 in the second cartridge 404.

[0040] The second cartridge 404 comprises a housing 412, wherein the housing 412 can be constructed of a pliable plastic material. The second cartridge 404 can comprise a first end 414 and a second end 416 that is opposite the first end 414, wherein the first end 414 is configured to be mated with the second end 410 of the first cartridge 402, and the second end 414 is configured to be received orally by a user. The first cartridge 402 and the second cartridge 404 may have airflow passageways (not shown) extending axially there through, such that the switch/sensor 112 can determine when the user is drawing air through the airflow passageways. The process controller 114 can cause an appropriate current/voltage to be provided to the heating element 126 by way of the battery 118, and the heating element 126 can vaporize the solution 128 in the third cartridge 404, thus providing the user with a vaporized substance.

[0041] While the designs of the electronic vaporizer described above include an internal direct heating element, it is to be understood that alternative designs are contemplated, wherein the heating element is reusable or disposable and is located exterior to the housing. In such a design, the heating element transfers heat to the solution in order to vaporize the solution for oral provision to a user.

[0042] Referring now to Fig. 5, an exemplary package 500 is illustrated, wherein the package 500 is configured for sale to consumers. The package 500 comprises a plurality of first cartridges 402 and a corresponding plurality of second cartridges 404, which have been described in detail above with respect to Fig. 4. The package 500 may be a tamper-proof package, with each combination of first and second cartridges sharing a compartment in the package 500.

[0043] With reference now to Fig. 6, an exemplary methodology is illustrated and described. While the methodology is described as being a series of acts that are performed in a sequence, it is to be understood that the methodology is not limited by the order of the sequence. For instance, some acts may occur in a different order than what is described herein. In addition, an act may occur concurrently with another act. Furthermore, in some instances, not all acts may be required to implement a methodology described herein.

[0044] With more specificity pertaining to Fig. 6, a methodology 600 that facilitates constructing a cartridge for utilization in connection with an electronic vaporizer is illustrated. The methodology 600 begins at 602, and at 604 a polymer-injection manufacturing technique is utilized to generate a housing for the cartridge. The polymer-injection manufacturing technique may be a multi-step polymer injection. Other manufacturing techniques are also contemplated

(but not limited to), including chemical bonding, thermal molding, thermal bonding, molding through utilization of metal molds, form casting, roll forming, machining, amongst others.

[0045] At 606, a heating element and liquid solution (e.g., placed in an absorbent material) are caused to be included in the housing. For instance, the housing can be cylindrical in nature with a size approximately the size of a filter on a cigarette. The heating element and the liquid solution reside in the interior of the housing. The methodology 600 completes at 608.

[0046] Turning now to Fig. 7, an exemplary personal electronic vaporizer 700 is illustrated. In a first embodiment, the electronic vaporizer 700 may be an electronic cigarette. In another embodiment, the electronic vaporizer 700 may be a drug delivery device for utilization in a medical field. The electronic vaporizer 700 comprises a power source 702 that is of a particular type. For example, the power source 702 may be manufactured by a particular manufacturer. In another example, the power source 702 may be a particular model of power source. Accordingly, the power source 702 has a connector 704 corresponding thereto that is of a first type that is associated with the particular type of the power source 702. Pursuant to an example, the power source 702 may be a battery that is commonly utilized in electronic cigarettes. In another example, the power source 702 may be an automobile battery, a AA battery, a portable telephone, a 9 volt battery, a personal computer, an AC outlet, a generator, or some other suitable power source.

[0047] The electronic vaporizer 700 also comprises a heating element 706 that is of a type that is different than the type associated with the power source 702. For example, the heating element 706 may be manufactured by a manufacturer that is different from the manufacturer of the power source 702. Thus, the heating element 706 can have a connector 708 that is of a second type that is different than the type of the connector 704 on the power source

702. Pursuant to an example, the first connector type may be a threaded connector, a magnetic connector, a push-on connector, a snap-on connector, a turn-lock connector, or other suitable connector type. The second connector type may be some connector type that is different from the first connector type.

[0048] The electronic vaporizer 700 also comprises an adapter 710 that is configured to mechanically mate the power source 702 with the heating element 706 by way of the adapter 710. Additionally, the adapter 710 is configured to electrically couple the power source 702 with the heating element 706. Thus, the adapter 710 comprises a first connector 712 that is of the first type (the same type as the connector 704 of the power source 702) and a second connector 714 that is of the second type (the same type as the connector 708 of the heating element 706). In an example, if the connector 704 is a threaded connector, the first connector 712 on the adapter 710 may be a threaded connector that is configured to receive or screw into the connector 704 of the power source 702. Additionally, while not shown, the adapter 710 may comprise an airflow passageway that allows airflow to reach the power source 702 when a user draws on the electronic vaporizer 700. Accordingly, the adapter 700 may be at least partially constructed of a conductive material, such as a conductive metal or a conductive polymer.

[0049] With reference now to Fig. 8, an exemplary adapter 800 that facilitates mechanically mating and electronically coupling a power source and a heating element in an electronic vaporizer having dissimilar connection mechanisms is illustrated. The adapter 800 comprises a first connector 802 of a first type and a second connector 804 of a second type. The first connector 802 is configured to mechanically and electrically mate with a power source and the second connector 804 is configured to mechanically and electrically mate with a heating

element. Accordingly, the power source is electrically and mechanically coupled to the heating element by way of the adapter 800.

[0050] The adapter 800 also comprises circuitry 806, which can be or include microchip, a voltage regulator, an AC/DC converter, an amplifier, circuitry that is configured to step up or step down voltage received from the power source, or some other suitable circuitry that can allow for power delivered from the power source to properly operate the heating element to cause vapor to be provided to a user as desired. Accordingly, while not shown, the adapter 800 can comprise an airflow passageway that allows air to flow between the heating element and the power source by way of the adapter.

[0051] As mentioned previously, the connectors 804 and 806 may be of dissimilar type. Therefore, for instance, the first connector 804 may be one of a threaded fastener, a magnetic connector, a twist cap connector, a push-on connector, a quick-lock connector, a t-bar connector, a half-turn lock, amongst other type of connectors, and the second connector 806 may be of a type that is dissimilar from the type of the first connector 804.

[0052] As discussed previously with respect to Figure 7, an example embodiment of a personal electronic vaporizer may include a power source 702 that corresponds to a generator. Such a generator may correspond to a power harvesting device operative to generate electricity from energy in the environment associated with the personal electronic vaporizer. Fig. 9 shows an example 900 of a personal electronic vaporizer that includes a power harvesting device such as a generator 902 as the power source. In this example, the generator 902 is mounted in a housing 904 of the electronic vaporizer. The housing 904 also includes an airflow passageway 906 that extends adjacent at least portions of the generator.

[0053] The generator may include at least one actuator device 908 such as an blade, impeller, fan, turbine, propeller, airfoil, squirrel-cage impeller, electron mass inductor, plasma accelerator and/or other type of device that is responsive to airflow through the airflow passageway 906 to urge a shaft 910 of the generator to rotate and generate an electrical current. There may also be a venturi, air duct, air ram or other channelling and/or funnelling technologies used in order to increase or decrease the speed and/or volume of the airflow. The generated electrical current may be directed via a controller 912 (e.g., a microprocessor and/or analog circuitry) included in the electronic vaporizer to power a heating element 914 sufficiently to vaporize a portion of a liquid solution 916. As described in previous embodiments, the heating element 914 and the liquid solution 916 may be integrated into a second housing 918 that is adapted to removably connect to the first housing 904.

[0054] As can be appreciated, the amount of electrical energy generated by the generator 902 will vary depending on the amount of air drawn through the airflow passageway 906 by a user inhaling and/or exhaling through the electronic vaporizer. In an example embodiment, the controller may be capable of regulating electricity generated from one or more inhales/exhales through the airflow passageway in order to provide the heating element with sufficient power to vaporize a portion of the liquid solution 916. For example, the controller 912 may be in operative connection with a storage device 920 such as one or more capacitors and/or a battery. Electrical energy generated by the generator from several inhales/exhales through the airflow passageways may be stored in the storage device 920. When a sufficient amount of energy is accumulated, the controller 912 may be operative to direct power to the heating element from the storage device in order to vaporize the liquid solution.

[0055] In order to ensure that the heating element is activated at a time desirable by a user, power to the heating element may be triggered by the controller responsive to information available to the controller (such as an air flow indication provided by a dedicated airflow sensor). However, rather than using a dedicated air flow sensor, in some embodiments, electricity generated from the generator itself may instead serve as a sensor indicating when a user is actively inhaling through the electronic vaporizer. The detection of inhaling coupled with a detection of a sufficient amount of energy in the storage device may cause the controller to power the heating element.

[0056] However, it should be appreciated that in other embodiments, additional or other information may be used to trigger the power of the heating element. For example, wind or other external air source may also be operative to urge the actuator device to turn the shaft of the generator. In order to prevent wind from activating the heating element at undesirable times, the electronic vaporizer may include at least one further sensor 922 adapted to sense that a user is holding and/or is ready for the electronic vaporizer to operate. Such a further sensor may correspond to a button or a switch, which is activated in order for the heating element to be powered.

[0057] In this described embodiment, the generator corresponds to a power harvesting device operative to acquire energy from airflows. However, it should be appreciated that in alternative embodiments of the electronic vaporizer, other types of power harvesting devices may be used. For example, an embodiment may include an induction device operative to acquire electrical power for charging a battery wirelessly via induction from an induction source near the electronic vaporizer. In another example, the power harvesting device may correspond to an inductive jet that is operative to generate electricity responsive to airflow through the inductive

jet, venturi or any other mechanism that directs a air or gas flow (including air) that could or may increase or decrease the gas speed and/or volume. Furthermore this may be used as an induction system pulling gases or vapors from a secondary stream for more flow mass/speed or to use as a mixing and/or blending mechanism.

[0058] In further embodiments, the electronic vaporize may include a power harvesting device in the form of a radio frequency (RF) power receiver device that is operative to acquire electrical power from RF signals transmitted by an RF power transmitter device. In further embodiments, the power receiver may be operative to harvest power from other RF sources in the environment such as wireless network signals and/or mobile phone communication signals. Examples of RF power harvesting devices include the power harvester modules sold by Powercast Corporation in Pittsburgh, PA.

[0059] Also, in further example embodiments, the electronic vaporizer may include a power harvesting device in the form of a vibration power receiver which is operative to convert mechanical vibrations (e.g., accelerations caused by movement of the electronic vaporizer) to electrical energy. Power harvesting devices may also include solar cells, static electricity harvesters, or any other type of device capable of harvesting power from energy sources in the vicinity of the detection device.

[0060] In these described embodiments, the power harvesting device may be operative to charge a rechargeable battery with the acquired electrical energy. The other components of the electronic vaporizer (e.g., the controller and heating element) may be powered via the battery. However, it is to be understood that example embodiments of some of the described harvesting devices may directly provide power to the controller and heating element without using a battery.

[0061] In example embodiments that include a generator, the controller may be operative to estimate an amount of airflow being drawn through the airflow passageway responsive to the electrical output from the generator. The controller may also be operative to determine when such an air flow includes a vaporized solution caused by the powering of the heating element by the controller. With such information, an example embodiment of the controller may be operative to estimate an amount of the vaporized solution that is likely being inhaled by the user. The controller may be operative to use this information to regulate and control the dosage of the vaporized solution received by the user. In this embodiment, the electronic vaporizer may correspond to a metered dosage inhaler (MDI) for nicotine, medications (e.g., for treatment of an asthma attack or other condition), and/or other chemicals.

[0062] For example, as illustrated in Figure 9, the controller may include a data store 924 such as a flash memory device or other non-volatile memory in which the controller is operative to store information regarding the amounts of vaporized solution that a user may have inhaled. The controller may also be operative to store time and/or date information in association with the measured amounts of inhaled vaporized solution. An example embodiment of the controller may be operative to operate the heating element responsive to the information stored in the data store. The controller may be operative to limit the amount of the vaporized solution that a user is able to inhale over a given predetermined (and/or configurable) period of time. This may be accomplished by the controller monitoring the amount of vaporized solution that is likely inhaled via the device for a predetermined period of time. When the monitored amount reaches a predetermined threshold, the controller may be operative to prevent the heater element from vaporizing additional solution, until after a predetermined amount of time, and/or until after the controller receives a manual reset signal (via a button, or other sensor device) included in the

electronic vaporizer. These described predetermined periods of time and predetermined thresholds may be stored in the data 924.

[0063] In one or more of the previously described embodiments (e.g., embodiments with either a battery or a power harvesting device), the described controller 912 (and/or a controller 928 in the housing 918 with the solution 916) may be operative to prevent the heater element from operating to vaporize a solution unless a specific user is detected by the electronic vaporizer. For example, in cases where the solution includes a prescription medication, a pain killer, a pharmaceutical, a narcotic, a controlled substance and/or other chemical, which is intended to be used by a specific person, the electronic vaporizer may include a sensor (e.g., such as sensor 922 in Figure 9) that corresponds to a fingerprint reader or other type of biometric device. Such a biometric device may acquire data from a user which is used by the controller 912 and/or 926 to verify that a predetermined user is currently holding the electronic vaporizer prior to vaporizing the solution.

[0064] In this described embodiment (with reference to Figure 9), a further data store 926 (e.g., a non volatile memory) may be included in the particular housing 918 that holds the solution (e.g., a prescription medication). This further data store 926 and/or data store 924 may be programmed (e.g., via a pharmacist) to include the biometric data associated with the user being treated with the prescription medication). The biometric data couples one or both of the housings 904, 918 to a particular user. Prior to causing the heater element to vaporize the solution with the prescription medication, the controller 912 and/or 928 may require the coupled user to provide (through a sensor 922) a biometric input that corresponds to the biometric data programmed into the data store 924 and/or 926.

[0065] In another example, the electronic vaporizer may be capable of having a data store be programmed (with the biometric data) by the owner of the device. In this embodiment, the electronic vaporizer may include one or more input devices through which the data store 924 or 926 can be updated with biometric data usable to couple the vaporizer to a specific user. Also, in an embodiment, the electronic vaporizer may include a communication device (e.g. a USB port, Bluetooth, Wireless Ethernet) capable of connecting to an external computing device (PC, mobile phone, or other computing device) through a wired or wireless connection. The external computing device may be operative to execute software capable of updating the data store 924 or 926 in the electronic vaporizer to included biometric data that couples the device to a specific user. Coupling an electronic vaporizer to a particular user may minimize the opportunity for children or other people from using the electronic vaporizer without permission.

[0066] It should also be appreciated that further embodiments may include other features for coupling an electronic vaporizer to a particular user. For example, the sensor 922 may correspond to an RFID, Bluetooth, and/or NFC reader that is operative to wirelessly read an RFID chip or other circuit (Bluetooth, NFC) integrated into an article associated with the user. Such an RFID chip or other circuit may be integrated into an article such as a ring, bracelet, necklace, card, mobile phone, clothing, or other article worn and/or carried by the user. The RFID chip or other circuit may include a unique code that corresponds to data stored in the data store 924 and/or 926. The controller 912 and/or, 928 may be operative to verify that the data stored in the data store 924 and/or 926 corresponds to code recently or currently being read by the RFID reader or other reader from the RFID chip or other circuit of the user's article, before causing the heater element to vaporize the solution. As described previously with respect to the embodiment with biometric data, a pharmacist and/or an end user may include computing

devices capable of interfacing with one or both controllers 912, 928 and storing data associated with the user's article in the data store 926 and/or 924.

[0067] To enhance security and to minimize unauthorized access to the electronic vaporizer or housings included therein, read only memory may be used as a data store for storing serial numbers, public keys, or other data that is intended to remain constant. Furthermore, updateable data (e.g. biometric data, RFID/Bluetooth/NFC data) which are programmed into a data store 924 and/or 926 by a pharmacist or other authorized person (to carry out the previously described data couplings), may be digitally signed in a manner that can be authenticated by one or more of the controllers 912, 928 in the electronic vaporizer prior to allowing the heater element to vaporize the solution.

[0068] For example, data stored in a data store 924 and/or 926 that couples the electronic vaporizer to a particular RFID chip or other circuit enabled article (e.g. a ring) may correspond to a digitally signed certificate that specifies the code that is transmitted by the article. Prior to enabling the heater element to vaporize the liquid solution, at least one of the controllers 912, 928 may require the detection of a code from an article which matches the code stored in the certificate, as well as requiring that the signature of the certificate be cryptographically authenticated. Further, the controller 912 and/or 928 may verify that the certificate includes serial number(s) associated with one or more of the housings 904, 918.

[0069] Such validly signed certificates may only be generated and stored on the electronic vaporizer by a pharmacists or other person that has access to a server with the particular private key that can sign the certificate in a manner that can be authenticated using the public key securely stored in the electronic vaporizer. Thus, an unauthorized user would not be

able to reprogram the electronic vaporizer (or the housing 918 that contains the solution 916) to work with other RFID articles by installing a fake certificate in the data store 924 and/or 926.

[0070] In addition, it should also be understood that in some embodiments a handshaking protocol may take place between controllers in different housings of the electronic vaporizer to establish encrypted communications. Such encrypted communications may minimize a man-in-the-middle attack or other hacks which may be attempted to gain unauthorized usage of the electronic vaporizer and/or associated housings/cartridges. For example, the controllers in different housings maybe able to carry out an SSL protocol to form an encrypted communication channel between the controllers through which certificates, RFID readings, biometric inputs, housing serial numbers, and/or other data may be passed therebetween. Also, it should be understood that embodiments that include an RFID/Bluetooth/NFC reader may be operative to carry out a handshaking protocol with an article. Such a handshaking protocol may establish encrypted communications with the article. The handshaking protocol may also include authentication of the article using digital certificates or other cryptographic processes.

[0071] In addition, in the previously described embodiments, the data store 924 and/or 926 may be programmed when manufactured, by a pharmacist, and/or by another authorized user to include usage and dosage information that correspond to the previously described predetermined periods of time and predetermined thresholds used to limit the amount of vaporized solution inhaled by a user. For such embodiments, the controller 912 and/or 928 may include or be in operative connection with a clock that can provide time information usable to control when to enable and/or prevent usage of the electronic vaporizer between the time intervals specified by the dosage information stored in the data store 924 and/or 926.

[0072] It should also be appreciated that one or more of the previously described embodiments of the electronic vaporizer may include a communication device for additional or other purposes besides programming the data store 926. For example, an embodiment of the electronic vaporizer may use a communication device to communicate data stored in the data store 924 associated with monitored usage of the device to an external computing device such as a remote server. The computing device may also communicate a unique identifier (e.g., a serial number, user account number, userID) to the remote server. The remote server may compile statistics regarding use of the electronic vaporizer (associated with the unique identifier) for use by a doctor or other person to evaluate and/or monitor its use. Also, the remote server may provide usage and/or dosage data to the electronic vaporizer to activate and/or modify future limits on the operation of the electronic vaporizer. In order to connect to the remote server, the communication device (e.g. a USB port, Bluetooth, NFC, Wireless Ethernet) of the electronic vaporizer may be connected to a corresponding communication device of a mobile phone, PC, or other computing device which has access to the Internet.

[0073] In addition, it should be understood that in some embodiments, in which a generator serves as a sensor (to monitor the intake of vaporized solution), the generator may not be used to provide electrical energy to power the heater element. Rather the generator may only correspond to an air flow meter. For example, the generator may be of a size that is adapted for monitoring airflow and may not be capable of timely generating a sufficient amount of energy to power the heater element. In such cases, the electronic vaporizer may include a battery as described in previous embodiments and/or some other type of power source or power harvesting device.

[0074] Also, it should be appreciated that one or more of the embodiments described herein may be operative to carry out and/or facilitate analyzing and/or capturing information about the user of the electronic vaporizer. For example in a further embodiment, the electronic vaporizer may include one or more sensors that are operative to analyze breath, saliva, skin, sweat, tissue, and/or cells of the user using the electronic vaporizer. Such sensors may be operative to acquire data from such substances, which data is stored in one or more data stores in the electronic vaporizer. Such data may be downloadable to a remote system (via a wired or wireless connection with the electronic vaporizer) in order for medical conditions and/or other characteristics of the user to be determined and evaluated by the user themselves, caregivers, and/or medical professionals.

[0075] Also in a further embodiment, the electronic vaporizer may be operative to acquire and store substances from a user (e.g., breath, saliva, skin, sweat, tissue, and/or cells) in a storage chamber within the electronic vaporizer during use of the electronic vaporizer. The electronic vaporizer and/or the storage chamber may then be connected to one or more instruments capable of extracting and analyzing the contents of the storage chamber for medical conditions or other characteristics (e.g., cancer, vitamin deficiencies, drug use).

[0076] As discussed previously the power source used in one or more embodiments described herein may correspond to a rechargeable battery. Such a rechargeable battery may be capable of being rapidly charged in a relatively fast time period (e.g., < 1 hour, < 30 minutes, or other time period that is less than 2 hours to charge a battery from <10% of a full charge to >90% of a full charge). In the embodiment, a rapid charger that is used to rapidly charge a battery in an electronic vaporizer in this described manner, may be capable of being plugged into any other power sources such as an AC outlet, a USB port or a DC power source.

[0077] In addition, it should be appreciated that one or more embodiments described herein may include an epinephrine auto injector or other type of auto injector that is capable of being used by a user to inject a medication capable of treating an allergic reaction, anaphylactic shock or other condition that requires an injection of a medication into the bloodstream of a user. Such an auto injector may be included in an additional housing/cartridge removably mountable to one of the other housings/cartridges described herein and/or may be integrated into one of the housings/cartridges described herein. Such an auto injector may be capable of being activated by placing an end of the housing/cartridge with the auto injector adjacent a user's body (e.g. a muscle) and pressing a button which causes a spring loaded needle in the auto injector to enter tissue of the user and inject a medication stored in the housing into the body of the person.

[0078] Further, it should be noted that any of the chemical delivery examples described herein (vaporizer, capsule, pellet, auto injector) may be operative to deliver any type of desirable substance to a user, including but not limited to: medications, antibiotics, pain killers, pharmaceuticals, narcotics, nicotine, tobacco, THC, marijuana, caffeine, vitamins, herbal substances, food, steroids, epinephrine, insulin, and/or any other substances that may be desirable by an end user of the described embodiments. Also, it should be appreciated that that one or more example embodiments may correspond to a cartridge that comprises of a housing, heating element located in the center airflow and a storage mechanism for holding the active and inert ingredients. In addition one or more embodiments may correspond to a cartridge that comprises of a housing, heating element surrounding the center of the airflow for the purpose of vaporization of ingredient or ingredients. Further one or more embodiments may correspond to a heating element that directly or indirectly contacts a solution, solid or powder to be transferred in a gaseous, liquid, powder or solid state either directly or indirectly through a carrier medium of

any kind in order to be inhaled through breath or artificial breathing mechanism to be delivered either directly or indirectly to the user or subject. Also, one or more embodiments may correspond to a heating element made from metallic substance such as nichrome, nickel chromium, gaseous heating element, ceramic, ceramic composite, carbon, carbon hybrid, carbon fiber, polymer, hybrid polymer or any other material that are capable of heating a solution, solid or powder to a gaseous state for the purpose of delivering a desired substance or combination of substances in order to deliver flavors, nicotine, medicines, recreational consumables, tobacco, marijuana, vitamins or any other substance or combination of substances for consumption by humans or animals of any kind. In addition one or more embodiments may correspond to a device or group of devices that use software and/or hardware that can also use artificial intelligence to singularly or collectively and can be linked either wirelessly or through other hard connection mechanisms to allow for the devices and user to collaborate or share collective data either knowingly or unknowingly directly or through a medium such as a server, internet or data bank locally or remotely for data collection as well as collaboration.

[0079] It is noted that several examples have been provided for purposes of explanation. These examples are not to be construed as limiting the hereto-appended claims. Additionally, it may be recognized that the examples provided herein may be permuted while still falling under the scope of the claims.

CLAIMS

We claim:

1. An apparatus comprising:

a power source,

wherein the power source includes a battery,

wherein the power source includes an electrically conductive threaded
portion; and

a cartridge having a housing that comprises an interior,

wherein the housing includes a first end and a second end that is opposite the first
end, wherein the housing includes a first aperture on the first end and a second
aperture on the second end,

wherein the housing includes an airflow passageway that extends with respect to
the housing intermediate of the first aperture on the first end of the housing and
the second aperture on the second end of the housing,

wherein the airflow passageway is configured to allow airflow through the cartridge from the first aperture to the second aperture of the housing,

wherein the first end of the housing includes an electrically conductive threaded portion that is adapted to mechanically and electrically couple to the electrically conductive threaded portion of the power source,

wherein the housing includes a solution holding medium comprising a solution located in the interior of the housing,

wherein the solution holding medium surrounds the airflow passageway in the interior of the housing and intermediate of the first end and the second end,

wherein the housing includes a heating element located in the interior of the housing,

wherein the heating element is electrically configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow from the second aperture responsive to electrical power received from the battery through the electrically conductive threaded portions of the cartridge and power source.

2. The apparatus according to claim 1, wherein the solution holding medium includes at least one of an absorbent material, a chamber, a reservoir, a capsule, or any combination thereof.
3. The apparatus according to claim 2, wherein the housing has a cylindrically shaped outer wall, wherein the housing has a central longitudinal axis that extends between the first and second apertures, wherein the airflow passageway extends coaxially with central longitudinal axis, wherein the solution holding medium surrounds the airflow passageway and the central longitudinal axis and no portion of the solution holding medium intersects the central longitudinal axis.
4. The apparatus according to claim 1, wherein the heating element extends transversely across the airflow passageway, whereby airflow through the passageway passes on both transverse sides of the element.
5. The apparatus according to claim 1, wherein the heating element extends in surrounding relation of the airflow passageway.
6. The apparatus according to claim 1, wherein the heating element is in operative connection with a wicking material, wherein the wicking material is operative to attract the solution from the solution holding medium toward the heating element.

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7. The apparatus according to claim 1, wherein the solution comprises propylene glycol, nicotine, caffeine, THC, antibiotics, pain killers, vitamins, insulin, epinephrine, or any combination thereof.
8. The apparatus according to claim 1, wherein the heating element includes electrically conductive and ceramic material positioned in surrounding relation of the airflow passageway.
9. The apparatus according to claim 1, wherein the second end is at least partially covered by a wood tip.
10. The apparatus according to claim 1, wherein the housing is comprised of wood, a ceramic, or a combination thereof.
11. The apparatus according to claim 1, wherein the housing includes an outer cylindrical wall comprised at least in part of a polymer.
12. An apparatus comprising:

electronic cigarette cartridge, wherein the electronic cigarette cartridge includes a housing,

wherein the housing includes:

an interior;

a first end;

a second end that is opposite the first end;

a heating element located in the interior of the housing;

an airflow passageway that extends intermediate of the first end and the second end through the interior of the housing along an axial direction, wherein the airflow passageway enables airflow from the first end to the second end;

a solution holding medium located in the interior of the housing, wherein the medium extends in surrounding relation of the heating element and the airflow passageway, wherein the medium includes a liquid solution, wherein the medium includes at least one of an absorbent material, a chamber, a reservoir, a capsule, or any combination thereof,

wherein the first end of the housing includes an electrically conductive engageable portion that is configured to mechanically and electrically couple to a further electrically conductive engageable portion in operative connection with a power source, wherein the heating element is

configured to vaporize at least a portion of the solution for oral delivery from the second end of the housing upon receiving current from the power source through the electrically conductive engageable portion of the cartridge.

13. The apparatus according to claim 12, wherein the solution comprises propylene glycol, nicotine, caffeine, THC, antibiotics, pain killers, vitamins, insulin, epinephrine, or any combination thereof.
14. The apparatus according to claim 12, wherein the heating element is in operative connection with a wicking material that is configured to attract the solution from the solution holding medium toward the heating element.
15. The apparatus according to claim 12, wherein the housing is comprised of at least one of a polymer or a ceramic.
16. The apparatus according to claim 12, wherein the first end comprises a first aperture and the second end comprises a second aperture, wherein the airflow passageway extends along an axial direction between the first aperture and the second aperture through the interior of the housing, and wherein at least a portion of the heating element extends in the airflow passageway, and wherein no portion of the solution holding medium intersects the central longitudinal axis.

17. The apparatus according to claim 12, wherein the first end comprises a first aperture and the second end comprises a second aperture, wherein the airflow passageway extends along an axial direction between the first aperture and the second aperture, and wherein the heating element is helical and extends in surrounding relation of the airflow passageway.

18. The apparatus according to claim 12, and further comprising the power source.

19. The apparatus according to claim 12 and further comprising:

at least one sensor operative to sense at least one property corresponding to an amount of air flow through the airflow passageway,

a controller in operative connection with the at least one sensor, wherein the controller is operative to cause a change in current delivered to the heating element responsive to the at least one sensed property.

20. An apparatus comprising:

an electrical power source including a positive terminal and a negative terminal;

a housing, wherein the housing is configured to releasibly electrically and physically couple to the power source, wherein the housing comprises:

an interior area, wherein the interior area extends along a central longitudinal axis of the housing;

a first end, wherein the first end comprises a first aperture;

a second end that is opposite the first end, wherein the second end comprises a second aperture;

an airflow passageway that extends along an axial direction intermediate of the first aperture and the second aperture,

a first conductive element extending in the interior area of the housing adjacent the first end, the first conductive element configured to be electrically in operative connection with the negative terminal of the power source;

a second conductive element extending in the interior area of the housing adjacent the first end, the second conductive element configured to be electrically in operative connection with the positive terminal of the power source;

a heating element within the interior area of the housing, the heating element configured to be electrically coupled to the power source by way of the first conductive element and the second conductive element; and

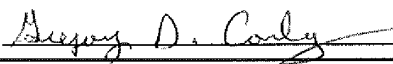
a solution holding element located in the interior area of the housing, wherein the solution holding element includes at least one of an absorbent material, a chamber, a reservoir, capsule, or any combination thereof, wherein the solution holding element holds a liquid solution, wherein the solution includes at least one of nicotine, caffeine, or THC, antibiotics, pain killers, vitamins, insulin, epinephrine or combinations thereof,

wherein the heating element and airflow passageway extend within the solution holding element, and wherein the heating element is configured to vaporize at least a portion of the solution responsive to receiving power from the power source such that the vaporized solution passes into the airflow passageway.

ABSTRACT

An electronic vaporizer is provided. The electronic vaporizer includes a cartridge that facilitates provision of a vaporized solution to an individual. The cartridge includes a housing that includes an interior, wherein the housing is one of a polymer housing or a ceramic housing. The cartridge also includes a heating element located in the interior of the housing, wherein the heating element is configured to vaporize a solution for oral provision to the individual. The vaporizer may also include a power harvesting device operative to acquire energy from the environment for use with powering the heating element.

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

Title of Invention	ELECTRONIC VAPORIZER
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>15/377,522</u> filed on <u>December 13, 2016</u>.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;">WARNING:</p> <p>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.</p> <p>LEGAL NAME OF INVENTOR</p> <p>Inventor: <u>Gregory D. Conley</u> Date (Optional): <u>2019-02-26</u></p> <p>Signature: <u></u></p> <p>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.</p>	

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

Title of Invention	ELECTRONIC VAPORIZER
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>15/377,522</u> filed on <u>December 13, 2016</u>.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> <p style="text-align: center;">WARNING:</p> <p>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.</p>	
LEGAL NAME OF INVENTOR	
<p>Inventor: <u>Daniel C. Hillenbrandt</u> Date (Optional): <u>2019-02-26</u></p> <p>Signature: <u><i>Daniel C. Hillenbrandt</i></u></p>	
<p>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.</p>	

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.

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

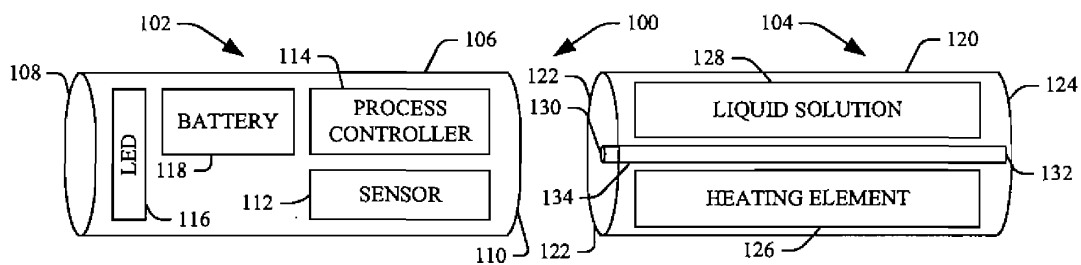


FIG. 1

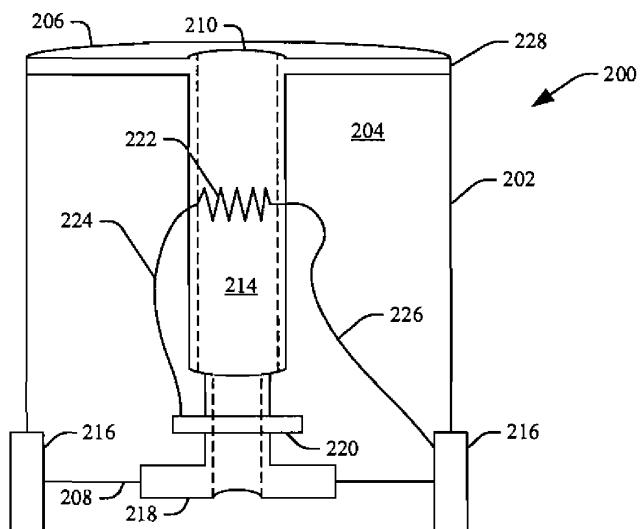


FIG. 2

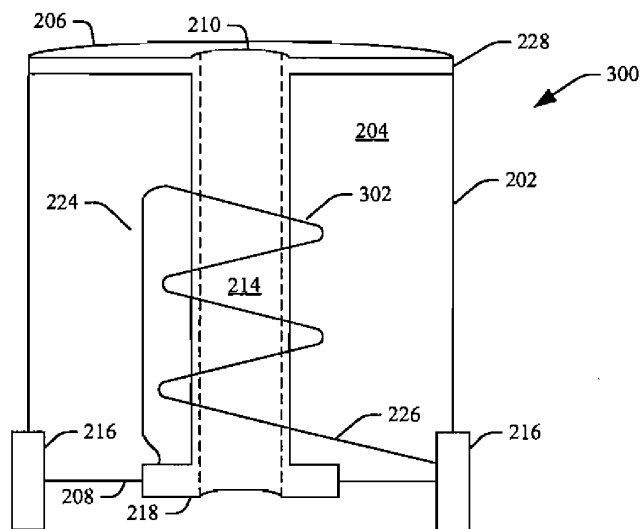


FIG. 3

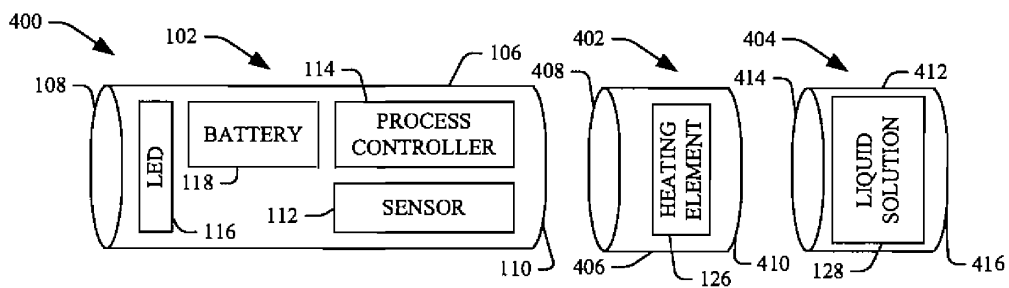


FIG. 4

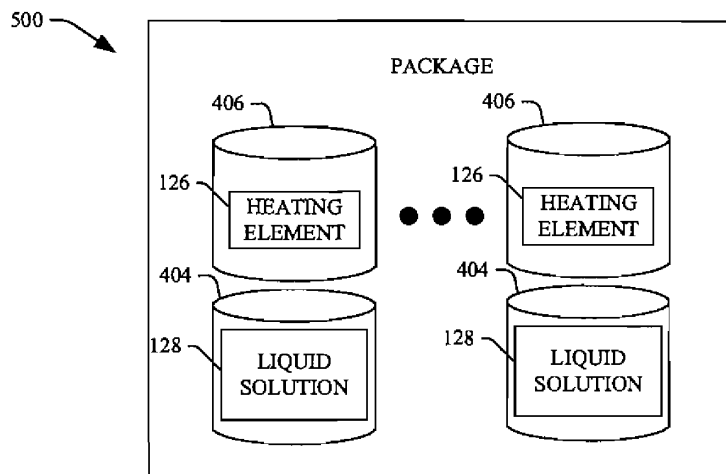


FIG. 5

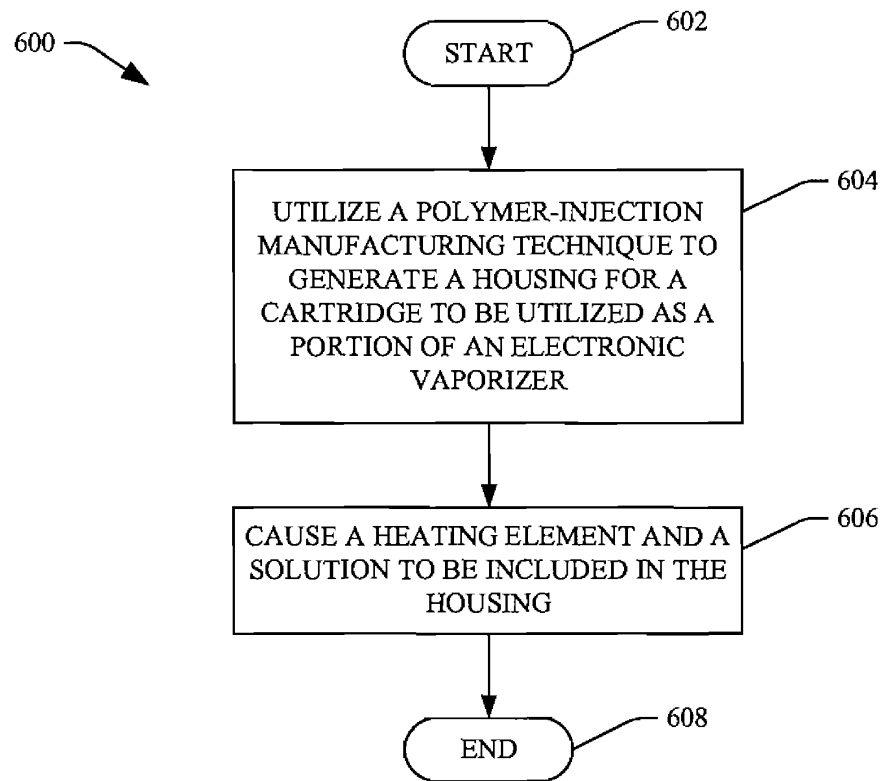


FIG. 6

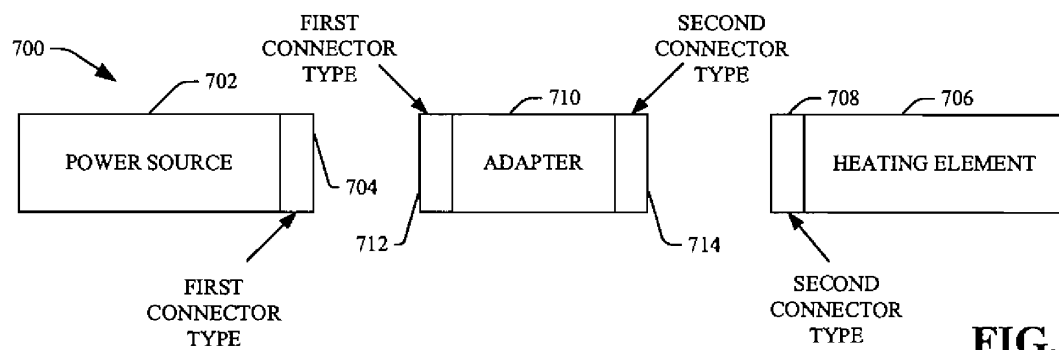


FIG. 7

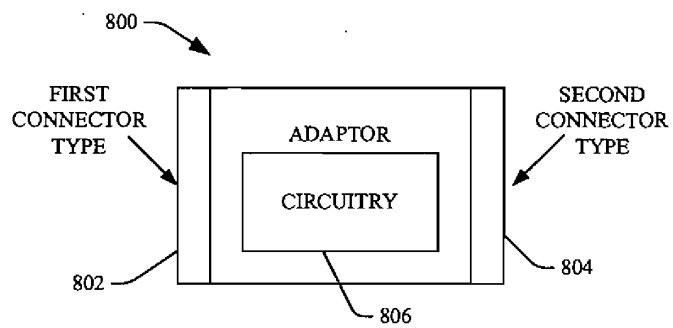


FIG. 8

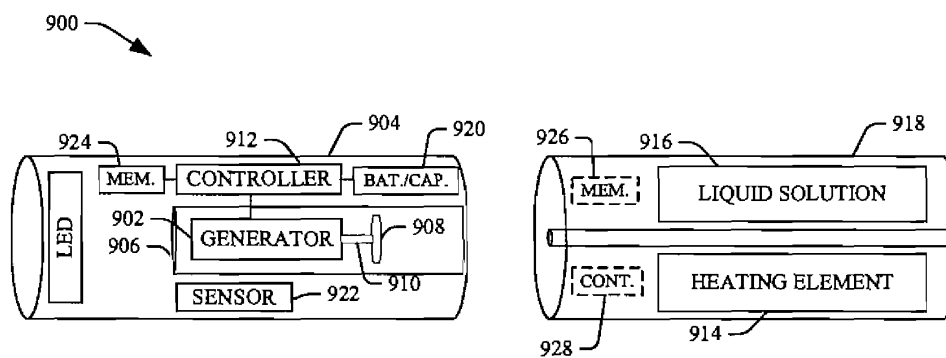


FIG. 9

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		ELECTRONIC VAPORIZER		
First Named Inventor/Applicant Name:		Gregory D. Conley		
Filer:		Thomas H. Martin/Sandra Blackmon		
Attorney Docket Number:		269.0003-03000		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				785

Electronic Acknowledgement Receipt	
EFS ID:	36402928
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Thomas H. Martin/Sandra Blackmon
Filer Authorized By:	Thomas H. Martin
Attorney Docket Number:	269.0003-03000
Receipt Date:	25-JUN-2019
Filing Date:	
Time Stamp:	14:02:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$785
RAM confirmation Number	062619INTEFSW14034601
Deposit Account	501068
Authorized User	Sandra Blackmon
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.16 (National application filing, search, and examination fees)</p> <p>37 CFR 1.17 (Patent application and reexamination processing fees)</p>	

37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	Transmittal.pdf	311365	no	2
			4b23ff0c2029e5067ce7971c8262d9a521e1c119		
Warnings:					
Information:					
2	Application Data Sheet	ADS.pdf	1256646	no	9
			2ee9e7b34198ab4817e4af29e09c9657555a05e4		
Warnings:					
Information:					
3	Transmittal Letter	IDS.pdf	240590	no	2
			40a719b7563e2ae5d93db2ccce5bef4f1c8d5d51		
Warnings:					
Information:					
4	Information Disclosure Statement (IDS) Form (SB08)	SB08.pdf	821041	no	4
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Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
5	Preliminary Amendment	Amendment.pdf	961822	no	10
			265bd32500e295a545d0505815d66a5512dbaac4		
Warnings:					
Information:					
6	Drawings-only black and white line drawings	ReplacementSheets.pdf	489928	no	2
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Warnings:					

Information:					
7	Power of Attorney	POA.pdf	614089	no	2
			5d298cc2f153a291dda8bd89311e86524a1e147c		
Warnings:					
Information:					
8	Assignee showing of ownership per 37 CFR 3.73	373cStatement.pdf	117911	no	3
			2fa30ffa9e3970af6107ecaff64b137e6310e140		
Warnings:					
Information:					
9		Application.pdf	1560608	yes	41
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	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	31	
	Claims		32	40	
	Abstract		41	41	
Warnings:					
Information:					
10	Oath or Declaration filed	Declarations.pdf	156917	no	2
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Warnings:					
Information:					
11	Drawings-only black and white line drawings	Drawings.pdf	55440	no	6
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Warnings:					
Information:					
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Warnings:	
Information:	
Total Files Size (in bytes):	6621657
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>	

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/451,483			
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA		RATE(\$)	FEE(\$)	RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	75	N/A			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A		N/A	330	N/A			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	380	N/A			
TOTAL CLAIMS (37 CFR 1.16(i))	20	minus 20 =	*	x 50 =	0.00	OR			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 =	*	x 230 =	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	785	TOTAL			
APPLICATION AS AMENDED - PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)	RATE(\$)	ADDITIONAL FEE(\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE		TOTAL ADD'L FEE			
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)	RATE(\$)	ADDITIONAL FEE(\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE		TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/451,483	06/25/2019		785	269.0003-03000	20	3

CONFIRMATION NO. 5143

FILING RECEIPT



0000000109808350

22882

MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

Date Mailed: 07/23/2019

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)

Gregory D. Conley, Medina, OH;
Daniel C. Hillenbrandt, Brunswick, OH;

Applicant(s)

FUMA INTERNATIONAL, LLC, Medina, OH;

Assignment For Published Patent Application

FUMA INTERNATIONAL, LLC

Power of Attorney: The patent practitioners associated with Customer Number 22882

Domestic Priority data as claimed by applicant

This application is a CON of 15/377,522 12/13/2016 PAT 10334881
which is a CON of 14/510,955 10/09/2014 PAT 9532604
which is a CON of 13/594,813 08/25/2012 PAT 8897628
which is a CIP of 12/843,917 07/27/2010 ABN
and claims benefit of 61/527,434 08/25/2011
and said 12/843,917 07/27/2010
claims benefit of 61/273,097 07/31/2009
and claims benefit of 61/271,819 07/27/2009

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.

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: 07/22/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/451,483**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

**** SMALL ENTITY ****

Title

ELECTRONIC VAPORIZER

Preliminary Class

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

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

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Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
(Use several sheets if necessary) Sheet <u>1</u> of <u>7</u>			Filing Date June 25, 2019		Art Unit 3761	Examiner I. Abraham
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
**	4,284,089	8/1981	Ray			
**	5,249,586	10/1993	Morgan et al.			
*	8,910,639	12/2014	Chang et al.			
U.S. PUBLICATION DOCUMENTS						
**	2009/0272379	11/2009	Thorens			
*	2014/0060554	3/2014	Collett et al.			
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Defendant R.J. Reynolds Vapor Company's Preliminary Invalidity Contentions as filed 26SEP2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit A, Claim Chart of U.S. Patent No. 9,532,604 with CN101366554A to Wang.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit B, Claim Chart of U.S. Patent No. 10,334,881 with CN101366554A to Wang.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit C, Claim Chart of U.S. Patent No. 9,532,604 with CN201379072Y to Han.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit D, Claim Chart of U.S. Patent No. 10,334,881 with CN201379072Y to Han.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit E, Claim Chart of U.S. Patent No. 9,532,604 with US2009/0126745 to Hon.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit F, Claim Chart of U.S. Patent No. 10,334,881 with US2009/0126745 to Hon.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit G, Claim Chart of U.S. Patent No. 9,532,604 with CN201085044Y to Fang.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit H, Claim Chart of U.S. Patent No. 10,334,881 with CN201085044Y to Fang.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit I, Claim Chart of U.S. Patent No. 9,532,604 with Fifty-One.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit J, Claim Chart of U.S. Patent No. 10,334,881 with Fifty-One.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit K, Claim Chart of U.S. Patent No. 9,532,604 with KR808D.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit L, Claim Chart of U.S. Patent No. 10,334,881 with KR808D.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit M, Claim Chart of U.S. Patent No. 9,532,604 with US2009/0095311 to Han.					

	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit N, Claim Chart of U.S. Patent No. 10,334,881 with US2009/0095311 to Han.
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit O, Claim Chart of U.S. Patent No. 9,532,604 with US 4,947,874 to Brooks et al.
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit P, Claim Chart of U.S. Patent No. 10,334,881 with US 4,947,874 to Brooks et al.
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit Q, Claim Chart of U.S. Patent No. 9,532,604 with US2009/0272379 to Thorens.
	Defendant R.J. Reynolds Vapor Company's Amended and Consolidated Affirmative Defenses and Amended and Consolidated Counterclaims to Complaints for Patent Infringement as filed 10OCT2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 53.
	Plaintiff Fuma International LLC's Responses to Defendant R.J. Reynolds Vapor Company's Amended and Consolidated Counterclaims to Complaints for Patent Infringement; Demand for Jury Trial; as filed 24OCT2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 55.
	R.J. Reynolds Vapor Company's Motion for Summary Judgment of Patent Unenforceability as filed 20DEC2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document; Document 73.
	Plaintiff Fuma International LLC's Motion for Summary Judgment on Defendant R.J. Reynolds Vapor Company's Inequitable Conduct Counterclaims as filed 20DEC2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 74.
	Plaintiff Fuma International LLC's Memorandum of Law in Support of Motion for Summary Judgment on Defendant R.J. Reynolds Vapor Company's Inequitable Conduct Counterclaims as filed 20DEC2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 75; with Exhibits (listed separately).
	Plaintiff's 20DEC2019 Memorandum Ex. 1, Examiner Search Notes at FUMA00000489, -546, -610
	Plaintiff's 20DEC2019 Memorandum Ex. 2, Comparison of Norton and Campbell Office Actions.
	Plaintiff's 20DEC2019 Memorandum Ex. 3, Chart depicting the sequence and relationship of the various applications in the subject patent family.
	Plaintiff's 20DEC2019 Memorandum Ex. 4, RJRV-F000045828 (noting entries of 11/01/2016 and 11/03/2016).
	Plaintiff's 20DEC2019 Memorandum Ex. 5, Fuma Supplemental Response to Interrogatory 12, p. 10.
	Plaintiff's 20DEC2019 Memorandum Ex. 6, December 4, 2019 Deposition Transcript of G. Conley.
	Plaintiff's 20DEC2019 Memorandum Ex. 7, December 9, 2019 Deposition Transcript of M. Medley.
	Plaintiff's 20DEC2019 Memorandum Ex. 8, May 29, 2014 Email from Conley to Jocke (FUMA00082651-53 at - 52).
	Plaintiff's 20DEC2019 Memorandum Ex. 9, Wikipedia Article at FUMA00000504 (describing "Heating Element ('atomizer)').
	Plaintiff's 20DEC2019 Memorandum Ex. 10, Fuma's Response to Interrogatory 15 at p. 5-6.
	Plaintiff's 20DEC2019 Memorandum Ex. 11, July 31, 2009 Sketches (FUMA00007752).
	Plaintiff's 20DEC2019 Memorandum Ex. 12, Deposition Exhibit No. DX-2A, Production No. FUMA00007750 (showing "Batting" annotation from Conley deposition).
	Plaintiff's 20DEC2019 Memorandum Ex. 13, RJRV-F000154458-72 at -71, -64, "Horizon 3 Vapor, The Open Innovation Solution"; Id. at - RJRV-F000154460 ("Open Innovation (Proudly Found Elsewhere)").
	Plaintiff's 20DEC2019 Memorandum Ex. 14, June 29, 2010 Email from Dennis Potter (RJRV-F000685773).
	Plaintiff's 20DEC2019 Memorandum Ex. 15, Sept. 19, 2019 Declaration of Wang Shanhong ("Wang Declaration").
	Plaintiff's 20DEC2019 Memorandum Ex. 16, July 22, 2010 D. Potter Email (RJRV-F000687003).

	Defendant's Memorandum in Support of Motion for Summary Judgment of Patent Unenforceability as filed 20DEC2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 76; with Exhibits (listed separately).
	Defendant's 20DEC2019 Memorandum Ex. 1, Updated 9,532,604 Patent Family Tree.
	Defendant's 20DEC2019 Memorandum Ex. 2, Deposition Exhibit No. DX 3; Production No. FUMA00000019-37; 9,532,604 Patent issued 03JAN2017 to Conley et al. (Certified on 08FEB2019).
	Defendant's 20DEC2019 Memorandum Ex. 3, Production No. FUMA00083194-12; 10,334,881 Patent issued 2JUL2019 to Coney et al.
	Defendant's 20DEC2019 Memorandum Ex. 4, Deposition Exhibit No. DX 19; Production No. FUMA00000338-55; 8,897,628 Patent issued 25NOV2014 to Coney et al. (Certified on 08FEB2019).
	Defendant's 20DEC2019 Memorandum Ex. 5, FUMA0000302-36 12/843,917 Application filed on 27JUL2010 to Conley et al. (Certified on 07FEB2019).
	Defendant's 20DEC2019 Memorandum Ex. 6, Fuma's Second Supplemental Response to Third Set of Interrogatories dated 12DEC2019, Interrogatory 12.
	Defendant's 20DEC2019 Memorandum Ex. 7, Excerpts from G. Conley Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 8, Excerpts from D. Hillenbrandt Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 9, Excerpts from R. Conley Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 10, Excerpts from M. Medley Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 11, Excerpts from R. Jocke Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 12, Excerpts from T. Martin Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 13, Deposition Exhibit No. DX 24; Production No. FUMA00012195; Press release announcing Fifty-One product.
	Defendant's 20DEC2019 Memorandum Ex. 14, Deposition Exhibit No. DX 25; Production No. FUMA00010920; Advertising of Fifty-One product.
	Defendant's 20DEC2019 Memorandum Ex. 15, Deposition Exhibit No. DX 1; Production No. FUMA00012107-16; PowerPoint advertising of Fifty-One product.
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**	Defendant's 20DEC2019 Memorandum Ex. 17, Production No. RJRV-F000061285-92; US Publication No. 2009/0272379A1 issued 05NOV2009 to Thorens.
**	Defendant's 20DEC2019 Memorandum Ex. 18, Production No. RJRV-F000061357-67; US Patent No. 4,284,089 issued 18AUG1981 to Ray.
	Defendant's 20DEC2019 Memorandum Ex. 19, Production No. FUMA00000510-31; 16OCT2013 Amendment and Response from '917 prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 20, Production No. FUMA00000532-41; 04DEC2013 Office Action.
	Defendant's 20DEC2019 Memorandum Ex. 21, Production No. FUMA00000549-65; 2/3/2014 Amendment and Response to 12/4/2013 Office Action.
	Defendant's 20DEC2019 Memorandum Ex. 22, Production No. FUMA00000567-79; 19FEB2014 Advisory Action rejecting proposed amendments.
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	Defendant's 20DEC2019 Memorandum Ex. 30, Production No. FUMA00082530-31; 25JAN2016 Letter from Jocke to Conley et al. providing 15JAN2016 Office Action.
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	Defendant's 20DEC2019 Memorandum Ex. 32, Deposition Exhibit No. DX 36; Production No. FUMA00063611-72; 522 Application and Application Data Sheet from '881 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 33, Production No. FUMA00063679-80; Transmittal of Power of Attorney for Thomas Martin, signed by Conley on 05-31-2018 during '881 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 34, Deposition Exhibit No. DX 43; Production No. FUMA00064785-86; IDS Narrative accompanying IDS filed on 05-01-2019 in '881 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 35, Production No. FUMA00083076-78; 07-29-2010 Invoice from Walker & Jocke to Conley confirming disclosure meeting Case.
	Defendant's 20DEC2019 Memorandum Ex. 36, Deposition Exhibit No. DX 14; Production No. FUMA00082529; Partial transcription of July 2010 inventor disclosure meeting between Conley and Medley.
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	Defendant's 20DEC2019 Memorandum Ex. 41, Production No. RJRV-F000044941-45082; Excerpts from Campbell's Ohio June 2016 transcript.
	Defendant's 20DEC2019 Memorandum Ex. 42, Production No. FUMA00081032-81041; Campbell Declaration.
	Defendant's 20DEC2019 Memorandum Ex. 43, Deposition Exhibit No. DX 34; Production No. FUMA00082521-28; 09-07-2016 Letter from Jocke to Conley et al. regarding filing of declarations.
	Defendant's 20DEC2019 Memorandum Ex. 44, Deposition Exhibit No. DX 22; Production No. FUMA00077839-44; November 2016 Email String.
	Defendant's 20DEC2019 Memorandum Ex. 45, Deposition Exhibit No. DX 21; Production No. FUMA00000228-34; Inventor Declarations filed on 11-15-2016 in 604 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 46, Deposition Exhibit No. DX 16; Production No. FUMA00000503-09; File history copy of Wikipedia article on "Electronic cigarette".
	Defendant's 20DEC2019 Memorandum Ex. 47, Production Nos. RJRV-F000062080-130; RJRV000062132-38; Wang Declaration (Chinese) and exhibits, and English translation of Wang Declaration.
	Defendant's 20DEC2019 Memorandum Ex. 48, Production No. RJRV-F000694624-33; Top Down View of Cartridges 1-3.
	Defendant's 20DEC2019 Memorandum Ex. 49, Production No. FUMA00082588; 07-10-2013 Letter from Parmelee to Conley regarding prosecution of '813 Application ('628 patent).
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	Defendant's 20DEC2019 Memorandum Ex. 53, Deposition Exhibit No. DX2A; Production No. FUMA00007750-MODIFIED; Sketch of Fifty-One Duo with location of batting material identified by Conley.
	Defendant's 20DEC2019 Memorandum Ex. 54, Declaration of John Collins with Exhibits A-J.

	Opening Claim Construction Brief of Defendant R.J. Reynolds Vapor Company as filed 13JAN2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 82; with Exhibits (listed separately).
	Defendant's 13JAN2020 Brief Ex. 1, Email Chain between Dirk Thomas and Laura Beth Miller regarding the parties' preliminary claim constructions, from October 29, 2019 to November 1, 2019.
	Defendant's 13JAN2020 Brief Ex. 2, Production No. RJRVF900000037-42; Shorter Oxford English Dictionary (6th Edition), Excerpt for "couple," "fasten," and "link".
	Defendant's 13JAN2020 Brief Ex. 3, Production No. RJRVF900000043-48; Merriam-Webster's Collegiate Dictionary (10 th Edition), Excerpt for "couple," "fasten," and "link".
	Defendant's 13JAN2020 Brief Ex. 4, Production No. FUMA00000581-92; Certified File History for U.S. Application No. 12/843,917: March 28, 2014 Amendment Filed with a Request for Continued Examination (RCE) and Remarks.
	Defendant's 13JAN2020 Brief Ex. 5, Production No. RJRVF000044605-06; Email Chain between Ralph Jocke and Greg Conley regarding Patent Application Response, dated January 31, 2014 and February 3, 2014.
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	Defendant's 13JAN2020 Brief Ex. 9, Production No. FUMA00000599-607; Certified File History for U.S. Application No. 12/843,917: May 6, 2014 Non-Final Rejection.
	Defendant's 13JAN2020 Brief Ex. 10, Deposition Exhibit No. 33; Production No. FUMA00082651-52; Email Chain between Greg Conley and Ralph Jocke regarding the '813 and '917 Applications, dated May 29, 2014 and June 4, 2014.
	Defendant's 13JAN2020 Brief Ex. 11, Excerpts from Ralph Jocke Deposition Transcript.
	Plaintiff Fuma International LLC's Opening Claim Construction Brief as filed 13JAN2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 83; with Exhibit (listed separately)
	Plaintiff's 13JAN2020 Brief Ex. A, (showing independent claims with highlighted terms RJR has proposed for construction).
	Reynolds's Memorandum in Opposition to Plaintiff's Motion for Summary Judgment as filed 21JAN2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 84; with Exhibits (listed separately).
	Defendant's 21JAN2020 Memorandum Ex. 1, Production No. FUMA00006410, FUMA00006487-88; Excerpt from Transcript of Proceedings, Steiger v. Conley, No. 14CIV-0386 (State of Ohio, Medina County Common Pleas Court, May 16, 2016).
	Defendant's 21JAN2020 Memorandum Ex. 2, Excerpt from D. Hillenbrandt Deposition Transcript.
	Defendant's 21JAN2020 Memorandum Ex. 3, School that Awarded MBA to Cat Sued, NBCNEWS.COM, http://www.nbcnews.com/id/6664906/ns/us_news-crime_and_courts/t/school-awarded-mba-cat-sued/#.XiCJ4MhKiUk (last updated Dec. 7, 2004).
	Defendant's 21JAN2020 Memorandum Ex. 4, Declaration of Atif Yardimici, dated January 21, 2020.
	Defendant's 21JAN2020 Memorandum Ex. 5, Second Declaration of John Collins, dated January 21, 2020.
	Defendant's 21JAN2020 Memorandum Ex. 6, Production No. FUMA00004119-127; Fuma International LLC's Marketing Material.
	Defendant's 21JAN2020 Memorandum Ex. 7, "Slideshow" View Excerpts of Horizon 3 Vapor PowerPoint.
	Plaintiff Fuma International LLC's Memorandum in Opposition to Defendant's Motion for Summary Judgment of Patent Unenforceability as filed 21JAN2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 85; with Exhibits (listed separately).
	Plaintiff's 21JAN2020 Memorandum Ex. A, July 19, 2010 Email from D. Potter to G. Conley.
	Plaintiff's 21JAN2020 Memorandum Ex. B, January 17, 2020 Declaration of Dr. Glen Vallee.

	Plaintiff's 21JAN2020 Memorandum Ex. C, Smoke Anywhere Assurance of Voluntary Compliance, State of Florida.
*	Plaintiff's 21JAN2020 Memorandum Ex. D, U.S. Patent No. 8,910,639 issued 16DEC2014 to Chang et al.
	Plaintiff's 21JAN2020 Memorandum Ex. E, January 9, 2011 ARD Test Memo - Blu (RJRV-F000051001-14, Redacted).
	Plaintiff's 21JAN2020 Memorandum Ex. F, May 11, 2006 Memo (RJRV-F000051785-90, Redacted).
	Plaintiff's 21JAN2020 Memorandum Ex. G, January 6, 2012 ARD Test Memo - Njoy (RJRV-F000051791-800, Redacted).
	Plaintiff's 21JAN2020 Memorandum Ex. H, RJR Ruyan Photos (RJRV-F000051919-976).
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	Plaintiff's 21JAN2020 Memorandum Ex. J, September 14, 2006 Memo - Ruyan (RJRV-F000053225, Redacted).
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*	Plaintiff's 21JAN2020 Memorandum Ex. M, U.S. Patent Publication No. 2014/0060554A1 published 06MAR2014 to Collett et al.
**	Plaintiff's 21JAN2020 Memorandum Ex. N, U.S. Patent No. 4,284,089 issued 18AUG1981 to Ray.
	Plaintiff's 21JAN2020 Memorandum Ex. O, Renewed Request for Correction of Inventorship (FUMA00063955.69).
	Plaintiff's 21JAN2020 Memorandum Ex. P, Excerpted December 6, 2019 Transcript of Rebecca Conely.
	Plaintiff's 21JAN2020 Memorandum Ex. Q, Excerpted December 11, 2019 Deposition Transcript of T. Martin.
	Responsive Claim Construction Brief of Defendant R.J. Reynolds Vapor Company as filed 05FEB2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 89; with Exhibits (listed separately).
	Defendant's 05FEB2020 Brief Ex. 1, Excerpts from Merriam-Webster's Collegiate Dictionary (10 th Edition, 1996).
	Defendant's 05FEB2020 Brief Ex. 2, Excerpt from Cambridge Dictionary of American English (2000).
	Plaintiff Fuma International LLC's Responsive Claim Construction Brief as filed 05FEB2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 90; with Exhibit (listed separately).
**	Plaintiff's 05FEB2020 Brief Ex. A, U.S. Patent No. 5,249,586 issued 5OCT1993 to Morgan et al.
	Order as issued 06MAR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 92.
	R.J. Reynolds Vapor Company's Motion to Reconsider Order (Dkt.92) Granting Motion for Summary Judgment as filed 20MAR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 93.
	Defendant R.J. Reynolds Vapor Company's Brief in Support of Its Motion for Reconsideration as filed 20MAR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 94.
	Claim Construction Order issued 23MAR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 95.
	Defendant R.J. Reynolds Vapor Company's Final Invalidity Contentions with Exhibits as filed 24APR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 1, Claim Chart of U.S. Patent No. 9,532,604 with CN101366554A to Wang.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 2, Claim Chart of U.S. Patent No. 10,334,881 with CN101366554A to Wang.

INFORMATION DISCLOSURE STATEMENT

Application Number: 16/451,483

	Defendant's 24APR2020 Final Invalidation Contentions Exhibit 3, Claim Chart of U.S. Patent No. 9,532,604 with CN201085044Y to Fang.
	Defendant's 24APR2020 Final Invalidation Contentions Exhibit 4, Claim Chart of U.S. Patent No. 10,334,881 with CN201085044Y to Fang.
	Defendant's 24APR2020 Final Invalidation Contentions Exhibit 5, Claim Chart of U.S. Patent No. 9,532,604 with Fifty-One.
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	Defendant's 24APR2020 Final Invalidation Contentions Exhibit 8, Claim Chart of U.S. Patent No. 10,334,881 with US2009/0095311 to Han.
	Defendant's 24APR2020 Final Invalidation Contentions Exhibit 9, Claim Chart of U.S. Patent No. 9,532,604 with US2009/0272379 to Thorens et al.
	Order as issued 19MAY2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260; Document 100.
EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation 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 the applicant.	

NJOY Exhibit 2029.102
Juul v. NJOY
IPR2024-00161

Electronic Acknowledgement Receipt	
EFS ID:	39553452
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Thomas H. Martin/Sandra Blackmon
Filer Authorized By:	Thomas H. Martin
Attorney Docket Number:	269.0003-03000
Receipt Date:	28-MAY-2020
Filing Date:	25-JUN-2019
Time Stamp:	09:40:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	085-Exhibit_C-SmokeAnywhereAssuranceOfVoluntaryCompliance-StateOfFlorida.pdf	7022805 ac34885d215ab3063a312f75dc0215d119819623	no	13

Warnings:

NJOY Exhibit 2029.103
Juul v. NJOY
IPR2024-00161

Information:					
2	Non Patent Literature	085-Exhibit_D-USPat8910639.pdf	4403133	no	25
			a5892f839cddbd7a9fdc51df77082ce128132266a		
Warnings:					
Information:					
3	Non Patent Literature	085-Exhibit_E-09JAN2011-ARDTestMemo-Blu_RJRV-F000051001-14_Redacted.pdf	23864977	no	15
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Information:					
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Information:					
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Information:					
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Warnings:					
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7	Non Patent Literature	085-Exhibit_J-14SEP2006_MemoRuyan_RJRV-F000053225_Redacted.pdf	1476732	no	19
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37	Information Disclosure Statement (IDS) Form (SB08)	SB08.pdf	142327	no	7
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<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3761
Filed: June 25, 2019	)	Examiner: Ibrahime A. Abraham
For: ELECTRONIC VAPORIZER	)	

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

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed non-U.S. patent documents are attached. Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Applicant brings to the attention of the Examiner the existence of the litigation proceeding, i.e., Civil Action No. 19-260 in the U.S. District Court for the Middle District of North Carolina, asserting infringement of U.S. Patent Nos. 9,532,604 and 10,334,881. The '604 patent issued from application serial no. 14/510,955, which is the parent of application serial no. 15/377,522 (now the '881 patent), which is the parent of the current pending above-identified application. Applicant is providing a copy of the recently filed Final Invalidity Contentions (with Exhibits) with the present IDS. Applicant brings to the Examiner's attention at least the references identified by the defendant at pages 9 and 13 of the Final Invalidity Contentions as being allegedly pertinent. Applicant notes that a number of the listed references on pages 11 through 13 are identified by reference to particular identified websites or YouTube Channels allegedly

available prior to particularly noted dates. Applicant encourages the Examiner to consider the references identified in the Final Invalidity Contentions even if not listed on form PTO/SB/08.

Applicant notes for the Examiner on the attached Form PTO/SB/08 in the column for the Examiner's initials those items marked with "*" are listed both as a U.S. patent/publication and as an Exhibit in the non-patent literature section; and those items marked with "**" have been previously cited in a prior Information Disclosure Statement with respect to the above-identified application, but are being cited again for being designated as an Exhibit in the non-patent literature section.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: May 28, 2020

By: /Thomas H. Martin/
Thomas H. Martin
Registration No. 34,383

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Electronic Acknowledgement Receipt	
EFS ID:	39550873
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Thomas H. Martin/Sandra Blackmon
Filer Authorized By:	Thomas H. Martin
Attorney Docket Number:	269.0003-03000
Receipt Date:	28-MAY-2020
Filing Date:	25-JUN-2019
Time Stamp:	09:42:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	076-Exhibit_21-FUMA00000549-565.pdf	2787669	no	18
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**NJOY Exhibit 2029.112
Juul v. NJOY
IPR2024-00161**

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Information:					
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Warnings:					
The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing					
Information:					
57	Non Patent Literature	085- FumasOppositionToRJRsMotio nForSummaryJudgmentOfIneq uitableConduct.pdf	275672	no	27
			f45ee8a6c6cc8c5688042deb543092f7c968 0544		

Warnings:					
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58	Non Patent Literature	085- Exhibit_A-19JUL2010_EmailFromDPotterToGConley.pdf	2715452 da622c720f78f6df4ade07d5d0f6e2eacefffe4	no	4
Warnings:					
Information:					
59	Non Patent Literature	085- Exhibit_B-17JAN2020_DeclarationOfGValleePhD.pdf	17714261 da9a2b01d1197639e39505ef130f0e7ebda6ea68	no	40
Warnings:					
Information:					
Total Files Size (in bytes):			215748081		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

Electronic Acknowledgement Receipt	
EFS ID:	39547061
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Thomas H. Martin/Sandra Blackmon
Filer Authorized By:	Thomas H. Martin
Attorney Docket Number:	269.0003-03000
Receipt Date:	28-MAY-2020
Filing Date:	25-JUN-2019
Time Stamp:	09:43:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	26SEP2019- PreliminaryInvalidityContentio ns.pdf	583253	no	125
			0d5a2c4c5e833634129d659c175ff0a779e dcf4		

Warnings:

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2	Non Patent Literature	Exhibit_A-604_PatentClaimChart-Wang554.pdf	229823	no	24
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Warnings:					
Information:					
3	Non Patent Literature	Exhibit_B-881_PatentClaimChart-Wang554.pdf	493406	no	45
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Warnings:					
Information:					
4	Non Patent Literature	Exhibit_C-604_PatentClaimChart-Han072.pdf	485710	no	60
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Warnings:					
Information:					
5	Non Patent Literature	Exhibit_D-881_PatentClaimChart-Han072.pdf	582213	no	82
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Warnings:					
Information:					
6	Non Patent Literature	Exhibit_E-604_PatentClaimChart-Hon745.pdf	352002	no	42
			1da0cf396811aaec9faa9aec185bd2a5708e0bec		
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7	Non Patent Literature	Exhibit_F-881_PatentClaimChart-Hon745.pdf	429910	no	73
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8	Non Patent Literature	Exhibit_G-604_PatentClaimChart-Fang.pdf	461996	no	51
			598fcefad4de2fcb179b197804457f1b34209e54		
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Information:					

9	Non Patent Literature	Exhibit_H-881_PatentClaimChart-Fang.pdf	621974	no	71
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10	Non Patent Literature	Exhibit_I-604_PatentClaimChart-Fifty-One.pdf	2460227	no	37
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12	Non Patent Literature	Exhibit_K-604_PatentClaimChart-KR808D.pdf	129636	no	7
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Information:					
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16	Non Patent Literature	Exhibit_O-604_PatentClaimChart-Brooks874.pdf	210280	no	12
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17	Non Patent Literature	Exhibit_P-881_PatentClaimChart-Brooks874.pdf	225975	no	16
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18	Non Patent Literature	Exhibit_Q-604_PatentClaimChart-Thorens.pdf	230847	no	8
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19	Non Patent Literature	053-RJRs_AmendedCounterclaimAndAffirmativeDefenses.pdf	2065361	no	97
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20	Non Patent Literature	073-RJRsMotionForSummaryJudgmentOfUnenforceability.pdf	135609	no	4
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21	Non Patent Literature	075-Exhibit_1-ExaminerSearchNotes.pdf	86635	no	4
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22	Non Patent Literature	075-Exhibit_2-ComparisonOfNortonAndCampbellOfficeActions.pdf	1670142	no	9
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23	Non Patent Literature	075-Exhibit_3-604PatentFamilyTree.pdf	106076	no	2
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24	Non Patent Literature	075-Exhibit_4-OhioStateCourtDocket.pdf	174762	no	4
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25	Non Patent Literature	075-Exhibit_5-FumaResponseToInterrogatory No12.pdf	174022	no	20
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26	Non Patent Literature	075-Exhibit6-GConleyDepTr.pdf	1202619	no	337
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27	Non Patent Literature	075-Exhibit_7-MMedleyDepTr.pdf	585395	no	162
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28	Non Patent Literature	075-Exhibit_8-04JUN2014_EFR_JokeToGConley.pdf	523783	no	4
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30	Non Patent Literature	075-Exhibit_10-FumasResponseToRogs15-16.pdf	152474	no	10
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31	Non Patent Literature	075-Exhibit_11-InitialDateDrawing.pdf	150804	no	2
			6ce1a28046f7c39eccd1a9377960341081b99233		
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32	Non Patent Literature	075-Exhibit12-OldSketch.pdf	759627	no	2
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33	Non Patent Literature	075-Exhibit_13-RJROpenInnovationsSlides.pdf	851841	no	16
			9d176b4b02c180223836f2b7f1d0f5833c09c38e		
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34	Non Patent Literature	075-Exhibit_14-29JUN2010_EFDPotterToGBorschke.pdf	99264	no	2
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35	Non Patent Literature	075-Exhibit_15-WangDeclaration.pdf	3106032	no	58
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36	Non Patent Literature	075-Exhibit_16-22JUL2010_EFDPotterToJGentry.pdf	82361	no	2
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Warnings:					
Information:					

37	Non Patent Literature	075- FumaMemoISOMotionForSummaryJudgmentRelnequitableConduct.pdf	401480	no	30
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38	Non Patent Literature	074- FumasMotionForSummaryJudgment.pdf	133554	no	3
			271af298c9e279e97a5d595e40d85bc8f88d75f3		
Warnings:					
Information:					
39	Non Patent Literature	055- ResponsesToRJRAmendedCounterclaim24OCT2019.pdf	1410180	no	92
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40	Non Patent Literature	076- RJRsMemoISOMotionForSummaryJudgment.pdf	327911	no	42
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45	Non Patent Literature	076-Exhibit_5-917CertifiedApplication.pdf	11112950	no	37
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46	Non Patent Literature	076-Exhibit_6-FumasSupplementalResponsesToRJR3dSetOfROGs-No12.pdf	191870	no	20
			f0e7331d1dc9ab5e675f30c563b8c275f7a2ad29		
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47	Non Patent Literature	076-Exhibit_7-ConleyDepoExcerpts.pdf	352404	no	33
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48	Non Patent Literature	076-Exhibit_8-HillenbrandtDepoExcerpts.pdf	124166	no	4
			69d76a5288a28542e653b0b75e8092db3006cac3		
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49	Non Patent Literature	076-Exhibit_9-RebeccaConleyDepoExcerpts.pdf	130643	no	5
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			b0a7e3b558501236485540f3eb7dc43916d7e785		
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53	Non Patent Literature	076-Exhibit_13-FUMA00012195.pdf	1192351	no	2
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Information:					
54	Non Patent Literature	076-Exhibit_14-FUMA00010920.pdf	1940456	no	2
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55	Non Patent Literature	076-Exhibit_15-FUMA00012107-116.pdf	20415212	no	11
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56	Non Patent Literature	076-Exhibit_16-FUMA00000477-487.pdf	3320076	no	12
			20983c26c2132a15007f1cd64b40c8cc14a679dc		
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Information:					
57	Non Patent Literature	076-Exhibit_17-US20090272379A1.pdf	3697065	no	9
			680d1c4199f24a501e5a52da02b0cde7e8eb9e4		
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58	Non Patent Literature	076-Exhibit_18-US4284089.pdf	5433652	no	12
			f369a7c7976e1d296fcea274b7e7548e395f7d4		
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59	Non Patent Literature	076-Exhibit_19-FUMA00000510-531.pdf	4708520	no	23
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60	Non Patent Literature	076-Exhibit_20-FUMA00000532-41.pdf	3111549	no	11
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Warnings:					
Information:					
Total Files Size (in bytes):			127529588		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/451,483		Filing Date 06/25/2019		☐ 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), (l), 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(j))		minus 20 = *		x \$50 =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *		x \$230 =					
☐ 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									
AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(j))	*	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			
AMENDMENT	12/23/2020	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(j))	* 40	Minus	** 20	= 20	x \$50 =	1000		
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 3	= 1	x \$240 =	240		
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		1240	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LDRC			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/EVA V GILLIS/			
*** 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 Patent Application Fee Transmittal				
Application Number:		16451483		
Filing Date:		25-Jun-2019		
Title of Invention:		ELECTRONIC VAPORIZER		
First Named Inventor/Applicant Name:		Gregory D. Conley		
Filer:		Wesley Charles Meinertding		
Attorney Docket Number:		269.0003-03000		
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:				
CLAIMS IN EXCESS OF 20	1202	20	100	2000
INDEPENDENT CLAIMS IN EXCESS OF 3	1201	1	480	480
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				2480

Electronic Acknowledgement Receipt	
EFS ID:	41479166
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	23-DEC-2020
Filing Date:	25-JUN-2019
Time Stamp:	14:13:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$2480
RAM confirmation Number	E2020BME14258498
Deposit Account	501068
Authorized User	Wesley Meinerding
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.21 (Miscellaneous fees and charges)</p> <p>37 CFR 1.20 (Post Issuance fees)</p>	

37 CFR 1.19 (Document supply fees) 37 CFR 1.17 (Patent application and reexamination processing fees) 37 CFR 1.16 (National application filing, search, and examination fees)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Preliminary Amendment	Amendment.pdf	99135	no	10
			9c38f92ef47167339a0065aa904a7995f0e70bee1		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	31967	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):			131102		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3600
Filed: June 25, 2019	)	
For: ELECTRONIC VAPORIZER	)	

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

Sir:

AMENDMENT

Prior to the examination of the above-identified application, the following amendments and remarks are submitted:

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

Remarks begin on page 10 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (cancelled).

Claims 21-40 (cancelled).

41. (new) A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:
- a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture; and
 - a heating element located in the interior of the housing, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow, the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source.
42. (new) The cartridge of claim 41, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
43. (new) The cartridge of claim 41, wherein the cartridge is adapted to permit the airflow to pass on both transverse sides of the heating element during use of the electronic vaporizer.
44. (new) The cartridge of claim 41, wherein the heating element includes a wicking material being operative to permit at least a portion of the solution to be held in

the solution holding medium to be drawn toward the heating element to be vaporized.

45. (new) The cartridge of claim 41, wherein the first aperture proximate the first end is smaller than the second aperture proximate the second end.
46. (new) The cartridge of claim 41, further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine.
47. (new) The cartridge of claim 41, further comprising an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing.
48. (new) The cartridge of claim 47, wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture.
49. (new) The cartridge of claim 47, wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.
50. (new) The cartridge of claim 47, wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing.
51. (new) The cartridge of claim 41, wherein the heating element includes a coil.
52. (new) The cartridge of claim 41, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
53. (new) The cartridge of claim 41, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area along a continuous majority of the length, the

substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.

54. (new) The cartridge of claim 41, wherein the airflow through the housing follows an airflow path, a first portion of the airflow path proximate the first aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing, and a second portion of the airflow path proximate to the second aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing.
55. (new) The cartridge of claim 41, wherein the heating element includes a material that when powered by the power source is adapted to vaporize the solution brought into contact with the heating element.
56. (new) A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:
- a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end and a central longitudinal axis extending from the first end to the second end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing; and
 - a heating element located in the interior of the housing, the heating element including a coil extending transversely to the central longitudinal axis of the housing and transversely to a direction of the airflow such that the airflow passes on both transverse sides of the heating element during use of the electronic vaporizer, the heating element being configured to vaporize at least the portion of the solution drawn to the heating element for oral provision to an

- individual in the airflow, the heating element being responsive to electrical power received from the power source.
57. (new) The cartridge of claim 56, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
58. (new) The cartridge of claim 56, wherein the heating element includes a wicking material being operative to permit at least a portion of the solution to be held in the solution holding medium to be drawn toward the heating element to be vaporized.
59. (new) The cartridge of claim 56, wherein the first aperture proximate the first end is smaller than the second aperture proximate the second end.
60. (new) The cartridge of claim 56, further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine.
61. (new) The cartridge of claim 56, further comprising an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing.
62. (new) The cartridge of claim 61, wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture.
63. (new) The cartridge of claim 61, wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.
64. (new) The cartridge of claim 61, wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing.
65. (new) The cartridge of claim 56, wherein the cartridge is formed as an integrated single assembly.
66. (new) The cartridge of claim 56, wherein the airflow through the housing follows an airflow path, a first portion of the airflow path proximate the first aperture being

defined substantially centrally and axially with respect to the central longitudinal axis of the housing, and a second portion of the airflow path proximate to the second aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing.

67. (new) The cartridge of claim 56, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
68. (new) The cartridge of claim 56, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.
69. (new) A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:
- a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end and a central longitudinal axis extending from the first end to the second end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing; and
 - a heating element located in the interior of the housing, the heating element extending transversely to the central longitudinal axis of the housing and

being at least partially exposed to the airflow such that the airflow entering through the first aperture will separate and then pass on both transverse sides of the heating element and then continue along an airflow path co-axial with the central longitudinal axis of the housing toward the second aperture during use of the electronic vaporizer, the heating element being configured to vaporize at least the portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source.

- 70. (new) The cartridge of claim 69, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
- 71. (new) The cartridge of claim 69, wherein the heating element comprises a material that when powered by the power source is adapted to vaporize the solution brought into contact with the heating element.
- 72. (new) The cartridge of claim 69, further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine.
- 73. (new) The cartridge of claim 69, further comprising an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing.
- 74. (new) The cartridge of claim 73, wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture.
- 75. (new) The cartridge of claim 73, wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.
- 76. (new) The cartridge of claim 73, wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing.

77. (new) The cartridge of claim 69, wherein the cartridge is formed as an integrated single assembly.
78. (new) The cartridge of claim 69, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
79. (new) The cartridge of claim 69, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.
80. (new) A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:
- a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture; and
 - a heating element located in the interior of the housing, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow, the heating element being configured to vaporize at least a portion of the solution for oral provision to an

individual in the airflow, the heating element being responsive to electrical power received from the power source;

wherein the cartridge is formed as an integrated single assembly.

REMARKS

Applicant cancelled claims 21-40 without prejudice or disclaimer of their subject matter, and added new claims 41-80.

Entry and consideration of this Amendment prior to the examination of the above-identified application is respectfully requested.

If there are any fees due in connection with the filing of this Amendment, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: December 23, 2020

By: /Thomas H. Martin/
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Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
(Use several sheets if necessary) Sheet <u>1</u> of <u>4</u>			Filing Date June 25, 2019		Art Unit 3600	Examiner
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U.S. PUBLICATION DOCUMENTS						
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Defendant R.J. Reynolds Vapor Company's Invalidity Expert Report of Dr. John M. Collins dated July 23, 2020 (REDACTED), U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit A to Defendant R.J. Reynolds Vapor Company's Invalidity Expert Report of Dr. John M. Collins dated July 23, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit B to Defendant R.J. Reynolds Vapor Company's Invalidity Expert Report of Dr. John M. Collins dated July 23, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Plaintiff Fuma International LLC's Rebuttal Expert Report of Glenn Vallee, Ph.D. Regarding Validity of the '604 and '881 Patents dated August 21, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit A to Plaintiff Fuma International LLC's Rebuttal Expert Report of Glenn Vallee, Ph.D. Regarding Validity of the '604 and '881 Patents dated August 21, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Defendant R.J. Reynolds Vapor Company's Reply Expert Report of Dr. John M. Collins dated September 4, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit A to Defendant R.J. Reynolds Vapor Company's Reply Expert Report of Dr. John M. Collins dated September 4, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit B to Defendant R.J. Reynolds Vapor Company's Reply Expert Report of Dr. John M. Collins dated September 4, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Plaintiff Fuma International LLC's Motion for Summary Judgment of Infringement dated October 20, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.					
	Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment of: (I) Infringement of the '881 Patent by Defendant's Vuse Solo and Vuse Ciro Products, and (II) Infringement of the '604 Patent by Defendant's Vuse Ciro Product dated October 20, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.					
	Exhibit A to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Responsive Expert Report of Dr. John M. Collins (Redacted).					

	Exhibit A (John Collins CV) of Exhibit A to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Responsive Expert Report of Dr. John M. Collins.
	Exhibit B (Material Considered List) of Exhibit A to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Responsive Expert Report of Dr. John M. Collins.
	Exhibit B to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Solo G2 Final Infringement Contentions Claim Chart for U.S. Patent No. 10,334,881.
	Exhibit C to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Solo G1 Final Infringement Contentions Claim Chart for U.S. Patent No. 10,334,881.
	Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit A (Glenn Vallee CV and Testimony History) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit B (Documents Considered) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit C (Declaration under 37 C.F.R. § 1.131 in U.S. Serial No. 15/377,522) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit D (Vuse Solo G1 Infringement Claim Chart for U.S. Patent No. 9,532,604 for Fuma Expert Report on Infringement) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit E (Vuse Solo G2 Infringement Claim Chart for U.S. Patent No. 9,532,604 for Fuma Expert Report on Infringement) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit J (Fuma's Embodying Products) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit E to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Solo G1 Infringement Claim Chart for U.S. Patent No. 10,334,881 for Fuma Expert Report on Infringement.
	Exhibit F to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Solo G2 Infringement Claim Chart for U.S. Patent No. 10,334,881 for Fuma Expert Report on Infringement.
	Exhibit G to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement in Reply to August 21, 2020 Rebuttal Report of Dr. Collins (Redacted).
	Exhibit A ("Shigley's Mechanical Engineering Design" Excerpt) of Exhibit G to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement in Reply to August 21, 2020 Rebuttal Report of Dr. Collins.
	Exhibit B (Hibbeler, "Engineering Mechanics, Statics and Dynamics" Excerpt) of Exhibit G to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement in Reply to August 21, 2020 Rebuttal Report of Dr. Collins.
	Exhibit H to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Ciro Final Infringement Contentions Claim Chart for U.S. Patent No. 9,532,604.

	Exhibit I to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Ciro Final Infringement Contentions Claim Chart for U.S. Patent No. 10,334,881.
	Exhibit J to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Ciro Claim Chart for U.S. Patent No. 9,532,604 for Fuma Expert Report on Infringement (Redacted).
	Exhibit K to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Ciro Claim Chart for U.S. Patent No. 10,334,881 for Fuma Expert Report on Infringement (Redacted).
	Defendant R.J. Reynolds Vapor Company's Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Defendant R.J. Reynolds Vapor Company's [Proposed] Order Granting R.J. Reynolds Vapor Company's Motion for Summary Judgment of Noninfringement, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Exhibit 1 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Vuse Solo PMTA Letter, Sec. H Excerpts.
	Exhibit 2 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Vuse Ciro PMTA Letter, Sec. H Excerpts.
	Exhibit 3 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement in Reply to August 21, 2020 Rebuttal Report of Dr. Collins with Exhibit A Excerpts.
	Exhibit 4 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement with Exhibits E, F, H, I, Excerpts (Redacted).
	Exhibit 5 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. Application No. 12/843,917 Certified Application File History Excerpts.
	Exhibit 6 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. Application No. 14/510,995 (U.S. Patent No. 9,532,604) Certified Application File History Excerpts.
	Exhibit 7 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. Application No. 15/337,522 (U.S. Patent No. 10,334,881) Certified Application File History Excerpts.
	Exhibit 8 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Responsive Expert Report of Dr. John M. Collins with Exhibits A and B.
	Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Exhibit L to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Vuse Solo G2 Final Infringement Contentions Claim Chart for U.S. Patent No. 9,532,604.
	Exhibit M to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Vuse Solo G1 Final Infringement Contentions Claim Chart for U.S. Patent No. 9,532,604.

	Exhibit N to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Vuse Solo G1 Claim Chart for Expert Report of Glenn Vallee, Ph.D. on Infringement of U.S. Patent No. 9,532,604.
	Exhibit O to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Vuse Solo G2 Claim Chart for Expert Report of Glenn Vallee, Ph.D. on Infringement of U.S. Patent No. 9,532,604.
	Various Screenshots of Exhibit P to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Fig. 2 of U.S. Patent No. 9,532,604 Animation.
	Defendant R.J. Reynolds Vapor Company's Opposition to Fuma's Motion for Summary Judgment of Literal Infringement dated November 11, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Plaintiff Fuma International LLC's Reply in Support of Its Motion for Summary Judgment of (I) Infringement of the '881 Patent by Defendant's Vuse Solo and Vuse Ciro Products, and (II) Infringement of the '604 Patent by Defendant's Vuse Ciro Product dated November 25, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Exhibit 9 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, File History Receipt for U.S. Serial No. 12/843,917.
	Exhibit 10 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, Defendant/Counterplaintiff R.J. Reynolds Vapor Company's Fourth Supplemental Objections and Responses to Plaintiff's Second Set of Interrogatories (Nos. 6-13) (Redacted).
	Exhibit 11 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, Excerpts of Deposition Of Nicholas Gilley.
	Exhibit 12 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, Vuse Advertising Samples.
	Exhibit 13 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, U.S. Patent No. 9,609,893.
EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation 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 the applicant.	

Electronic Acknowledgement Receipt	
EFS ID:	41970795
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	19-FEB-2021
Filing Date:	25-JUN-2019
Time Stamp:	15:09:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	IDS.pdf	82843	no	2
			be96a56dda6911d1d4eba57cb2cf45b3f6b04140		

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	SB08.pdf	120895	no	4
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Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Non Patent Literature	118_Fuma_Motion_for_SJ_of_Infringement.pdf	130968	no	3
			0d774ae4ca8c63a34dd29f54a3a9362353cf60944		
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Information:					
5	Non Patent Literature	120_02_Ex_B_2020_04_10_881_Vuse_Solo_G2_Claim_Chart_Final_Infr_Cont.pdf	9981019	no	51
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6	Non Patent Literature	120_03_Ex_C_2020_05_14_881_Vuse_Solo_G1_Claim_Chart_Final_Infr_Cont.pdf	4375312	no	31
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7	Non Patent Literature	120_04_Ex_D_2020_07_23_Vallee_Expert_Report_on_Infr_604_and_881_Pat.pdf	2484069	no	87
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8	Non Patent Literature	120_05_Ex_E_2020_07_23_Fuma_Expert_Report_881_Vuse_Solo_G1_CI_Chart.pdf	6997760	no	73
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Warnings:					
Information:					

9	Non Patent Literature	120_06_Ex_F_2020_07_23_Fu ma_Expert_Report_881_Vuse_ Solo_G2_Cl_Chart.pdf	6059411	no	75
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Warnings:					
Information:					
11	Non Patent Literature	120_08_Ex_H_2020_04_10_60 4_Claims_Chart_Vuse_Ciro_Fin al_Infr_Cont.pdf	6696096	no	41
			f73474618b30d00f4cdc899d5786208c1b4ff745d		
Warnings:					
Information:					
12	Non Patent Literature	120_09_Ex_I_2020_04_10_881 _Vuse_Ciro_Claim_Chart_Final _Infr_Cont.pdf	3172961	no	25
			fa02e99057b00a3e2da2cf537a64a917c2e7d660		
Warnings:					
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13	Non Patent Literature	120_10_Ex_J_2020_07_23_Fu ma_Expert_Report_604_Vuse_ Ciro_Cl_Chart.pdf	8610986	no	117
			f3d198c3e9bf13d7dc2bdf8922938bc1381c0c36		
Warnings:					
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14	Non Patent Literature	120_11_Ex_K_2020_07_23_Fu ma_Expert_Report_881_Vuse_ Ciro_Cl_Chart.pdf	4838701	no	80
			1826a1318824e2f0b603727d6f76a022b298e611		
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15	Non Patent Literature	120_Fuma_Memo_ISO_Motion _for_SJ.pdf	1315015	no	24
			c8e104c47cf9df93935ca177d78415c15327da9f		
Warnings:					
Information:					

16	Non Patent Literature	121_RJR_SJ_Motion_for_Non-Infringement.pdf	144864	no	4
			8cac3c8c0be9aa726df0cb86aa9483608e492858		
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Information:					
17	Non Patent Literature	121_01_Proposed_Order.pdf	138660	no	1
			22360a7df5c0e574af2e361bbe7f6939dc12f5c0		
Warnings:					
Information:					
18	Non Patent Literature	122_01_Ex_1_Vuse_SOLO_PMTA_letter_SEC_H_Excerpts.pdf	14818378	no	39
			53837b9e91cd046fcb05450b9a85f33a2705de33d		
Warnings:					
Information:					
19	Non Patent Literature	122_02_Ex_2_Vuse_CIRO_PMTA_letter_SEC_H_Excerpts.pdf	13926192	no	30
			35cdb0450ba64ec2d1005b42fd119ef59f05251d		
Warnings:					
Information:					
20	Non Patent Literature	122_03_Ex_3_2020_09_04_Vallee_Reply_Expert_Rpt_Infr_Excerpts_with_Ex_A.pdf	24694121	no	79
			16a4a3a9a2ec1f89cd0e6e63f5d5225fe62fd0e14		
Warnings:					
Information:					
21	Non Patent Literature	122_04_Ex_4_2020_07_23_Vallee_Ex_Rpt_Infr_604_and_881_Pats_Exs_Excerpts.pdf	22882935	no	109
			a8d903bcfb839d2eb45a328330448c0436cd3948		
Warnings:					
Information:					
22	Non Patent Literature	122_05_Ex_5_917_Certified_Application_FH_Excerpts.pdf	19117975	no	68
			b0d7a7e779572d65798959d7e355e033fd190c27		
Warnings:					
Information:					

23	Non Patent Literature	122_06_Ex_6_604_Patent_955_Certified_FH_Excerpts.pdf	22466389	no	60
			0b99335dba78e17830be22425e172ffd508261c9		
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Information:					
24	Non Patent Literature	122_07_Ex_7_522_Certified_Application_FH_881_Patent_Excerpts.pdf	26012439	no	26
			ff92824294f267b6ec3eaaa079cca62755724fee		
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Information:					
25	Non Patent Literature	122_08_Ex_8_2020_08_21_Final_Collins_Responsive_Report_Exs_A_B.pdf	20015477	no	128
			ff4ae080668186108a50ffb866505ce357c7ccb		
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Information:					
26	Non Patent Literature	122_RJR_Memo_ISO_Motion_for_SJ_of_Non_Infringement.pdf	16701080	no	52
			23a49221e5818d0fd6aa1f3f3d22ad1ff8c60b3f		
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Information:					
27	Non Patent Literature	130_01_Ex_L_604_Solo_G2_Final_Infr_Cont.pdf	5889778	no	39
			18798244c6b187586119afc0707ff02e6c5c711		
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28	Non Patent Literature	130_02_Ex_M_604_Solo_G1_Final_Infr_Cont.pdf	7095502	no	38
			37384ee42bee640da26b72d137adb38364c1ae55		
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Information:					
29	Non Patent Literature	130_03_Ex_N_Vallee_604_Solo_G1_Claim_Chart.pdf	10489726	no	97
			d416d23dcb4d16293ded8a4af93732b590b42901		
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Information:					

30	Non Patent Literature	130_04_Ex_O_Vallee_604_Solo_G2_Claim_Chart.pdf	8488216	no	108
			506edd99a56a366822ae58ab38d8497d3d1c0f3d		
Warnings:					
Information:					
31	Non Patent Literature	130_05_Ex_P_Fig_2_Screen_Shots_of_Animation.pdf	1342500	no	8
			083819190cbc2dbc5be134b83c4dda7bacda97bc		
Warnings:					
Information:					
32	Non Patent Literature	130_Fuma_Opp_to_RJR_Mot_for_SJ_of_Non_Infr.pdf	1631354	no	33
			f00b9239e814b7414f6357c55eef5e438587b723		
Warnings:					
Information:					
33	Non Patent Literature	131_RJR_Opp_to_Fuma_Mot_for_SJ_of_Infr.pdf	5734875	no	52
			9415456bc77f0ace9cd92284eb90baeddde7f05		
Warnings:					
Information:					
34	Non Patent Literature	133_Fuma_Reply_ISO_Mot_for_SJ_of_Infr.pdf	1774174	no	23
			c6794f256e5bbd0350bbd60aefb718c959a9af9		
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Information:					
35	Non Patent Literature	134_01_Ex_9_FH_Receipt.pdf	1767587	no	4
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Warnings:					
Information:					
36	Non Patent Literature	134_02_Ex_10_RJR_4th_Supp_Rog_Responses_6_13.pdf	284956	no	4
			e02d1554f20b0f86a777c47f54a5d1df9d627d90		
Warnings:					
Information:					

37	Non Patent Literature	134_03_Ex_11_Gilley_Tr_Excerpts.pdf	3548471	no	5
			9d711a9f3b747d9218d50754092ee9fc859790a1		
Warnings:					
Information:					
38	Non Patent Literature	134_04_Ex_12_Vuse_Advertising_Samples.pdf	16228459	no	19
			814818ac609c3c4d025ea27807bcfc42db083d04		
Warnings:					
Information:					
39	Non Patent Literature	134_RJR_Reply_ISO_Mot_for_SJ_of_Non_Infr.pdf	893431	no	25
			4fd2cb5fb2dfeabee34ee4d2ba435f6de466b2ee		
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Information:					
40	Non Patent Literature	134_05_Ex_13_893_Patent.pdf	1938524	no	37
			b871f79d7ecc5ae717f7c53ca9cffd9357f6fafl		
Warnings:					
Information:					
41	Non Patent Literature	Ex_A_Shigley_Textbook.pdf	3845983	no	5
			50862ddc9be052320f5802eb38c4a7b2685dda70		
Warnings:					
Information:					
42	Non Patent Literature	Ex_A_Vallee_CV_and_Testimony_History.pdf	296328	no	14
			ce0ac4f249374ffbcc56313a94c46d6675dd6b2d		
Warnings:					
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43	Non Patent Literature	Ex_B_Documents_Considered.pdf	146340	no	8
			7fd394ed35322d000b03310e9558fdbed707e4ee		
Warnings:					
Information:					

44	Non Patent Literature	Ex_B_Hibbeler_Wedge.pdf	2699993	no	4
			fd1468f32002154c12d64a52c18c4edc1bda5742		
Warnings:					
Information:					
45	Non Patent Literature	Ex_C_131_Declaration.pdf	9474131	no	32
			96d93c4c0029306bffa73dbb95252862471f89fb		
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Information:					
46	Non Patent Literature	Ex_D_604_Vuse_Solo_G1_Claim_Chart.pdf	10169761	no	97
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Warnings:					
Information:					
47	Non Patent Literature	Ex_E_604_Vuse_Solo_G2_Claim_Chart.pdf	8865768	no	108
			31fa31274c38636f856b94bf503057a257d991f5		
Warnings:					
Information:					
48	Non Patent Literature	Ex_J_Fuma_Embodying_Products.pdf	1450873	no	14
			c73ef958a77ab65a88f1305bb1b76652b187526f		
Warnings:					
Information:					
49	Non Patent Literature	Exhibit_A_Collins__CV.pdf	852284	no	8
			e9e2cf47e89a058539440618b6166d0c4bffcda0		
Warnings:					
Information:					
50	Non Patent Literature	Exhibit_A_Collins__CV.pdf	776678	no	8
			b5494b8cd761c857907a9ec73ce7f6fc23110cd		
Warnings:					
Information:					

51	Non Patent Literature	Exhibit_A_Collins_CV.pdf	776672	no	8
			981fa216190f283b600aae6fc2304f74e3f84e1		
Warnings:					
Information:					
52	Non Patent Literature	Exhibit_B_Collins_Materials_Considered_List.pdf	8890250	no	22
			63997b002085c82830d0c7b4d00569c7b4a0dfb		
Warnings:					
Information:					
53	Non Patent Literature	Exhibit_B_Collins_Materials_Considered_List_Responsive_Report.pdf	8548536	no	21
			b37006d744fb501dc6ee06267541b3d6d933e0da		
Warnings:					
Information:					
54	Non Patent Literature	Exhibit_B_Considered_List.pdf	7169941	no	17
			01a84fb0eac45fe9e0b081c4c2f63f578d6886cd		
Warnings:					
Information:					
55	Non Patent Literature	FINAL_Collins_Burden_Expert_Report_REDACTED.pdf	9755515	no	273
			afe8117fe60d96c13e263a61d1445c2d46f55d97		
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Information:					
56	Non Patent Literature	FINAL_Collins_Invalidity_Reply_Report.pdf	9622065	no	218
			eb846951c5b1cae3fb849e3a9ff8c5de035050cf		
Warnings:					
Information:					
57	Non Patent Literature	Vallee_CV_and_Testimony_History.pdf	296527	no	14
			8cdc056842d34612db6026c96b58aeb58a68899e		
Warnings:					
Information:					

58	Non Patent Literature	Vallee_Rebuttal_Report_on_Validity_of_604_and_881_Patents.pdf	10331676 de2dc1412d469a5fed6e494f917e40bc2bc92dc4	no	239
Warnings:					
Information:					
Total Files Size (in bytes):			412168056		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3600
Filed: June 25, 2019	)	
For: ELECTRONIC VAPORIZER	)	

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

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed non-U.S. patent documents are attached. Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Applicant brings to the attention of the Examiner the existence of the litigation proceeding, i.e., Civil Action No. 19-260 in the U.S. District Court for the Middle District of North Carolina between Plaintiff Fuma International LLC (Fuma) and Defendant R.J. Reynolds Vapor Company (RJR), asserting infringement of U.S. Patent Nos. 9,532,604 and 10,334,881. The '604 patent issued from application serial no. 14/510,955, which is the parent of application serial no. 15/377,522 (now the '881 patent), which is the parent of the current pending above-identified application.

In addition to the other documents being submitted herewith, Fuma is submitting the expert reports in the above-discussed litigation between Fuma and RJR that address the validity of the asserted claims in the '604 and '881 patents. The Rebuttal report by Fuma's expert, Dr. Vallee, is submitted in its entirety, and RJR has confirmed

that they do not assert confidentiality on any of the material in Dr. Vallee's report. The Opening report by RJR's expert, Dr. Collins, has been redacted to remove specific materials that RJR informed Fuma it still considered confidential and that RJR requested be removed from copies of this report when submitting this IDS. The Reply report by RJR's expert, Dr. Collins, has not been redacted.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: February 19, 2021

By: /Thomas H. Martin/
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Registration No. 34,383

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3600
Filed: June 25, 2019	)	
For: ELECTRONIC VAPORIZER	)	

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

DECLARATION UNDER 37 C.F.R. § 1.131

I, Gregory D. Conley, declare as follows:

1. I am one of the named inventors of the above-identified application, and the other named inventor and I are the sole inventors of the subject matter described and claimed therein.
2. The present application was filed on June 25, 2019 and claims priority as a continuation of U.S. Application No. 15/377,522 (now U.S. Patent No. 10,334,881), filed on December 13, 2016, which claims priority as continuation of U.S. Application No. 14/510,955 (now U.S. Patent No. 9,532,604), filed on October 9, 2014, which claims priority as continuation of U.S. Application No. 13/594,813 (now U.S. Patent No. 8,897,628), filed on August 25, 2012, which claims priority as continuation in part of U.S. Application No. 12/843,917, filed on July 27, 2010. U.S. Application No. 12/843,917 claims the benefit of U.S. Provisional Application No. 61/273,097, filed on July 31, 2009, and claims the benefit of U.S. Provisional Application No. 61/271,819, filed on July 27, 2009. U.S. Application No. 13/594,813 claims the benefit of U.S. Provisional Application No. 61/527,434, filed on August 25, 2011.
3. Prior to January 13, 2010 (the publication date listed on the face page of CN201379072), the other named inventor and I reduced to practice in this country the invention as described and claimed in the above-identified application. Evidence of our reduction to practice is set forth below and attached hereto as Exhibit A.
4. Exhibit A includes Figs. 1-17 that depict the product and the componentry thereof that embody the reduction to practice of the invention as described and claimed

in the above-identified application. The figures of Exhibit A depict an Electronic Cigarette Starter Kit (including an electronic cigarette having a cartridge (yellow portion of electronic cigarette in Exhibit A)) and replacement Cartridges (sold separately from the Electronic Cigarette Starter Kit). As depicted in Exhibit A, the electronic cigarette is provided to vaporize at least a portion of a vaping liquid contained in a holding medium contained in the cartridge. The vaporization is facilitated using a heating element included in the cartridge responsive to electrical power received from a battery (white portion of electronic cigarette in Exhibit A), and the vaporized liquid is for oral provisioning to an individual in an airflow that travels through the electronic cigarette.

5. The relationship of the subject matter of the claims to the product and the componentry thereof shown in Exhibit A is set forth below.

(a1) Independent claim 41

Preamble: a cartridge configured to couple to a power source (see Fig. 2 of Exhibit A showing a white battery) of an electronic vaporizer (see Fig. 2 of Exhibit A showing an electronic cigarette).

Recitation 1:

a housing (of the cartridge) (see Figs. 2-9 of Exhibit A showing yellow cartridge) having an interior and a solution holding medium adapted to hold a solution (see Figs. 7-12 of Exhibit A showing a batting material that is a solution holding medium on an interior of the housing), the housing having a first end and a second end that is opposite the first end (see Figs. 6, 7, and 15 of Exhibit A showing a first end and a second end of the yellow cartridge), the housing having a first aperture proximate the first end and a second aperture proximate the second end (see Fig. 15 of Exhibit A showing a first aperture at the first end of the yellow cartridge and a second aperture at the second end of the yellow cartridge), the first end of the housing being adapted to electrically couple to the power source (see Figs. 2 and 15 of Exhibit A showing an electrical conductive threaded portion of the yellow cartridge for electrically coupling with an electrical conductive threaded portion on the white battery), the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture (see Figs. 5-13

of Exhibit A showing first and second apertures permitting an airflow through the yellow cartridge); and

Recitation 2

a heating element (of the cartridge) located in the interior of the housing (see Figs. 6-14 of Exhibit A showing a heating element), the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow (see Figs. 6-14 of Exhibit A showing the respective arrangement of the heating element relative to the airflow through the yellow cartridge), the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source (this corresponds to the purpose of the electronic cigarette of Exhibit A).

(b1) Dependent claim 42

Recitation: further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery (see Fig. 2 of Exhibit A showing the white battery and the relationship with the first end of the housing).

(c1) Dependent claim 43

Recitation: wherein the cartridge is adapted to permit the airflow to pass on both transverse sides of the heating element during use of the electronic vaporizer (see Figs. 6-14 of Exhibit A showing the respective arrangement of the heating element relative to the airflow through the yellow cartridge).

(d1) Dependent claim 44

Recitation: wherein the heating element includes a wicking material being operative to permit at least a portion of the solution to be held in the solution holding medium to be drawn toward the heating element to be vaporized (see Figs. 6- 14 of Exhibit A show the wicking material passing through the heating element and being operative to attract a portion of the solution from the solution holding medium located immediately adjacent opposite ends of the heating element toward the heating element).

(e1) Dependent claim 45

Recitation: wherein the first aperture proximate the first end is smaller than the second aperture proximate the second end (see Fig. 15 of Exhibit A showing dimensions of the first aperture and the second aperture).

(f1) Dependent claim 46

Recitation: further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine (the solution holding medium of Figs. 6 and 12 of Exhibit A held a solution comprising propylene glycol and nicotine).

(g1) Dependent claim 47

Recitation: further comprising an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing (see Figs. 5-13 and 15-17 of Exhibit A showing the airflow passageway through the yellow cartridge).

(h1) Dependent claim 48

Recitation: wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture (see Figs. 6-10 and 15 of Exhibit A for a majority of the airflow passageway having a uniform cross-sectional area between the heating element and the second aperture).

(i1) Dependent claim 49

Recitation: wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture (see Figs. 5-13 and 15-17 of Exhibit A showing the airflow passageway through the yellow cartridge).

(j1) Dependent claim 50

Recitation: wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing (see Figs. 5-17 of Exhibit A showing the airflow passageway through the yellow cartridge, and the location of the heating element).

(k1) Dependent claim 51

Recitation: wherein the heating element includes a coil (see Figs. 6-14 of Exhibit A showing a coil of the heating element).

(l1) Dependent claim 52

Recitation: wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture (see Figs. 6-10 and 15 of Exhibit A showing an airflow chamber having an interior between the heating element and the second aperture, and having the relationship of cross-sectional areas with a cross-sectional area of the second aperture).

(m1) Dependent claim 53

Recitation: wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture (see Figs. 6-10 and 15 of Exhibit A showing an airflow chamber between the heating element and the second aperture, having a substantially uniform cross-sectional area along a continuous majority of a length thereof, and having the relationship of cross-sectional areas with a cross-sectional area of the second aperture).

(n1) Dependent claim 54

Recitation: wherein the airflow through the housing follows an airflow path, a first portion of the airflow path proximate the first aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing, and a second portion of the airflow path proximate to the second

aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing (see Figs. 6-10 and 15 of Exhibit A showing the arrangement of a first portion and a second portion of an airflow path adjacent the first aperture and the second aperture, respectively).

(o1) Dependent claim 55

Recitation: wherein the heating element includes a material that when powered by the power source is adapted to vaporize the solution brought into contact with the heating element (this corresponds to the purpose of the electronic cigarette of Exhibit A).

(a2) Independent claim 56

Preamble: a cartridge configured to couple to a power source (see Fig. 2 of Exhibit A showing a white battery) of an electronic vaporizer (see Fig. 2 of Exhibit A showing an electronic cigarette).

Recitation 1:

a housing (of the cartridge) (see Figs. 2-9 of Exhibit A showing yellow cartridge) having an interior and a solution holding medium adapted to hold a solution (see Figs. 7-12 of Exhibit A showing a batting material that is a solution holding medium on an interior of the housing), the housing having a first end and a second end that is opposite the first end and a central longitudinal axis extending from the first end to the second end (see Figs. 6, 7, and 15 of Exhibit A showing a first end and a second end of the yellow cartridge, and central longitudinal axis extending from the first end to the second end), the housing having a first aperture proximate the first end and a second aperture proximate the second end (see Fig. 15 of Exhibit A showing a first aperture at the first end of the yellow cartridge and a second aperture at the second end of the yellow cartridge), the first end of the housing being adapted to electrically couple to the power source (see Figs. 2 and 15 of Exhibit A showing an electrical conductive threaded portion of the yellow cartridge for electrically coupling with an electrical conductive threaded portion on the white battery), the first aperture and the second aperture being in communication with one another to permit an airflow

through the housing (see Figs. 5-13 of Exhibit A showing first and second apertures permitting an airflow through the yellow cartridge); and

Recitation 2:

a heating element (of the cartridge) located in the interior of the housing (see Figs. 6-14 of Exhibit A showing a heating element), the heating element including a coil extending transversely to the central longitudinal axis of the housing and transversely to a direction of the airflow such that the airflow passes on both transverse sides of the heating element during use of the electronic vaporizer(see Figs. 6-14 of Exhibit A showing a coil of the heating element, and the respective arrangement of the heating element relative to the airflow through the yellow cartridge), the heating element being configured to vaporize at least the portion of the solution drawn to the heating element for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source (this corresponds to the purpose of the electronic cigarette of Exhibit A).

(b2) Dependent claim 57

Recitation: further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery (see Fig. 2 of Exhibit A showing the white battery and the relationship with the first end of the housing).

(c2) Dependent claim 58

Recitation: wherein the heating element includes a wicking material being operative to permit at least a portion of the solution to be held in the solution holding medium to be drawn toward the heating element to be vaporized (see Figs. 6- 14 of Exhibit A show the wicking material passing through the heating element and being operative to attract a portion of the solution from the solution holding medium located immediately adjacent opposite ends of the heating element toward the heating element).

(d2) Dependent claim 59

Recitation: wherein the first aperture proximate the first end is smaller than the second aperture proximate the second end (see Fig. 15 of Exhibit A showing dimensions of the first aperture and the second aperture).

(e2) Dependent claim 60

Recitation: further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine (the solution holding medium of Figs. 6 and 12 of Exhibit A held a solution comprising propylene glycol and nicotine).

(f2) Dependent claim 61

Recitation: further comprising an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing (see Figs. 5-13 and 15-17 of Exhibit A showing the airflow passageway through the yellow cartridge).

(g2) Dependent claim 62

Recitation: wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture (see Figs. 6-10 and 15 of Exhibit A for a majority of the airflow passageway having a uniform cross-sectional area between the heating element and the second aperture).

(h2) Dependent claim 63

Recitation: wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture (see Figs. 5-13 and 15-17 of Exhibit A showing the airflow passageway through the yellow cartridge).

(i2) Dependent claim 64

Recitation: wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing (see Figs. 5-17 of Exhibit A showing the airflow passageway through the yellow cartridge, and the location of the heating element).

(j2) Dependent claim 65

Recitation: wherein the cartridge is formed as an integrated single assembly (see Figs. 2-12 and 15 showing the yellow cartridge is an integrated single assembly).

(k2) Dependent claim 66

Recitation: wherein the airflow through the housing follows an airflow path, a first portion of the airflow path proximate the first aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing, and a second portion of the airflow path proximate to the second aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing (see Figs. 6-10 and 15 of Exhibit A showing the arrangement of a first portion and a second portion of an airflow path adjacent the first aperture and the second aperture, respectively).

(l2) Dependent claim 67

Recitation: wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture (see Figs. 6-10 and 15 of Exhibit A showing an airflow chamber having an interior between the heating element and the second aperture, and having the relationship of cross-sectional areas with a cross-sectional area of the second aperture).

(m2) Dependent claim 68

Recitation: wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller

than a cross-sectional area of the second aperture (see Figs. 6-10 and 15 of Exhibit A showing an airflow chamber between the heating element and the second aperture, having a substantially uniform cross-sectional area along a continuous majority of a length thereof, and having the relationship of cross-sectional areas with a cross-sectional area of the second aperture).

(a3) Independent claim 69

Preamble: a cartridge configured to couple to a power source (see Fig. 2 of Exhibit A showing a white battery) of an electronic vaporizer (see Fig. 2 of Exhibit A showing an electronic cigarette).

Recitation 1:

a housing (of the cartridge) (see Figs. 2-9 of Exhibit A showing yellow cartridge) having an interior and a solution holding medium adapted to hold a solution (see Figs. 7-12 of Exhibit A showing a batting material that is a solution holding medium on an interior of the housing), the housing having a first end and a second end that is opposite the first end and a central longitudinal axis extending from the first end to the second end (see Figs. 6, 7, and 15 of Exhibit A showing a first end and a second end of the yellow cartridge, and central longitudinal axis extending from the first end to the second end), the housing having a first aperture proximate the first end and a second aperture proximate the second end (see Fig. 15 of Exhibit A showing a first aperture at the first end of the yellow cartridge and a second aperture at the second end of the yellow cartridge), the first end of the housing being adapted to electrically couple to the power source (see Figs. 2 and 15 of Exhibit A showing an electrical conductive threaded portion of the yellow cartridge for electrically coupling with an electrical conductive threaded portion on the white battery), the first aperture and the second aperture being in communication with one another to permit an airflow through the housing (see Figs. 5-13 of Exhibit A showing first and second apertures permitting an airflow through the yellow cartridge); and

Recitation 2:

a heating element (of the cartridge) located in the interior of the housing (see Figs. 6-14 of Exhibit A showing a heating element), the heating element

extending transversely to the central longitudinal axis of the housing and being at least partially exposed to the airflow such that the airflow entering through the first aperture will separate and then pass on both transverse sides of the heating element and then continue along an airflow path co-axial with the central longitudinal axis of the housing toward the second aperture during use of the electronic vaporizer (see Figs. 6-15 of Exhibit A showing the respective arrangement of the heating element relative to the airflow through the yellow cartridge), the heating element being configured to vaporize at least the portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source (this corresponds to the purpose of the electronic cigarette of Exhibit A).

(b3) Dependent claim 70

Recitation: further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery (see Fig. 2 of Exhibit A showing the white battery and the relationship with the first end of the housing).

(c3) Dependent claim 71

Recitation: wherein the heating element comprises a material that when powered by the power source is adapted to vaporize the solution brought into contact with the heating element (see Figs. 6-14 of Exhibit A showing a coil of the heating element).

(d3) Dependent claim 72

Recitation: further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine (the solution holding medium of Figs. 6 and 12 of Exhibit A held a solution comprising propylene glycol and nicotine).

(e3) Dependent claim 73

Recitation: further comprising an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing (see Figs. 5-13 and 15-17 of Exhibit A showing the airflow passageway through the yellow cartridge).

(f3) Dependent claim 74

Recitation: wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture(see Figs. 6-10 and 15 of Exhibit A for a majority of the airflow passageway having a uniform cross-sectional area between the heating element and the second aperture).

(g3) Dependent claim 75

Recitation: wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture (see Figs. 5-13 and 15-17 of Exhibit A showing the airflow passageway through the yellow cartridge).

(h3) Dependent claim 76

Recitation: wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing (see Figs. 5-17 of Exhibit A showing the airflow passageway through the yellow cartridge, and the location of the heating element).

(i3) Dependent claim 77

Recitation: wherein the cartridge is formed as an integrated single assembly (see Figs. 2-12 and 15 showing the yellow cartridge is an integrated single assembly).

(j3) Dependent claim 78

Recitation: wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture (see Figs. 6-10 and 15 of Exhibit A showing an airflow chamber having an interior between the

heating element and the second aperture, and having the relationship of cross-sectional areas with a cross-sectional area of the second aperture).

(k3) Dependent claim 79

Recitation: wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture (see Figs. 6-10 and 15 of Exhibit A showing an airflow chamber between the heating element and the second aperture, having a substantially uniform cross-sectional area along a continuous majority of a length thereof, and having the relationship of cross-sectional areas with a cross-sectional area of the second aperture).

(a4) Independent claim 80

Preamble: a cartridge configured to couple to a power source of an electronic vaporizer.

Recitation 1:

a housing (of the cartridge) (see Figs. 2-9 of Exhibit A showing yellow cartridge) having an interior and a solution holding medium adapted to hold a solution (see Figs. 7-12 of Exhibit A showing a batting material that is a solution holding medium on an interior of the housing), the housing having a first end and a second end that is opposite the first end (see Figs. 6, 7, and 15 of Exhibit A showing a first end and a second end of the yellow cartridge), the housing having a first aperture proximate the first end and a second aperture proximate the second end (see Fig. 15 of Exhibit A showing a first aperture at the first end of the yellow cartridge and a second aperture at the second end of the yellow cartridge), the first end of the housing being adapted to electrically couple to the power source (see Figs. 2 and 15 of Exhibit A showing an electrical conductive threaded portion of the yellow cartridge for electrically coupling with an electrical

conductive threaded portion on the white battery), the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture (see Figs. 5-13 of Exhibit A showing first and second apertures permitting an airflow through the yellow cartridge); and

Recitation 2:

a heating element (of the cartridge) located in the interior of the housing, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow (see Figs. 6-14 of Exhibit A showing the respective arrangement of the heating element relative to the airflow through the yellow cartridge), the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source (this corresponds to the purpose of the electronic cigarette of Exhibit A);

Recitation 3:

wherein the cartridge is formed as an integrated single assembly (see Figs. 2-12 and 15 showing the yellow cartridge is an integrated single assembly).

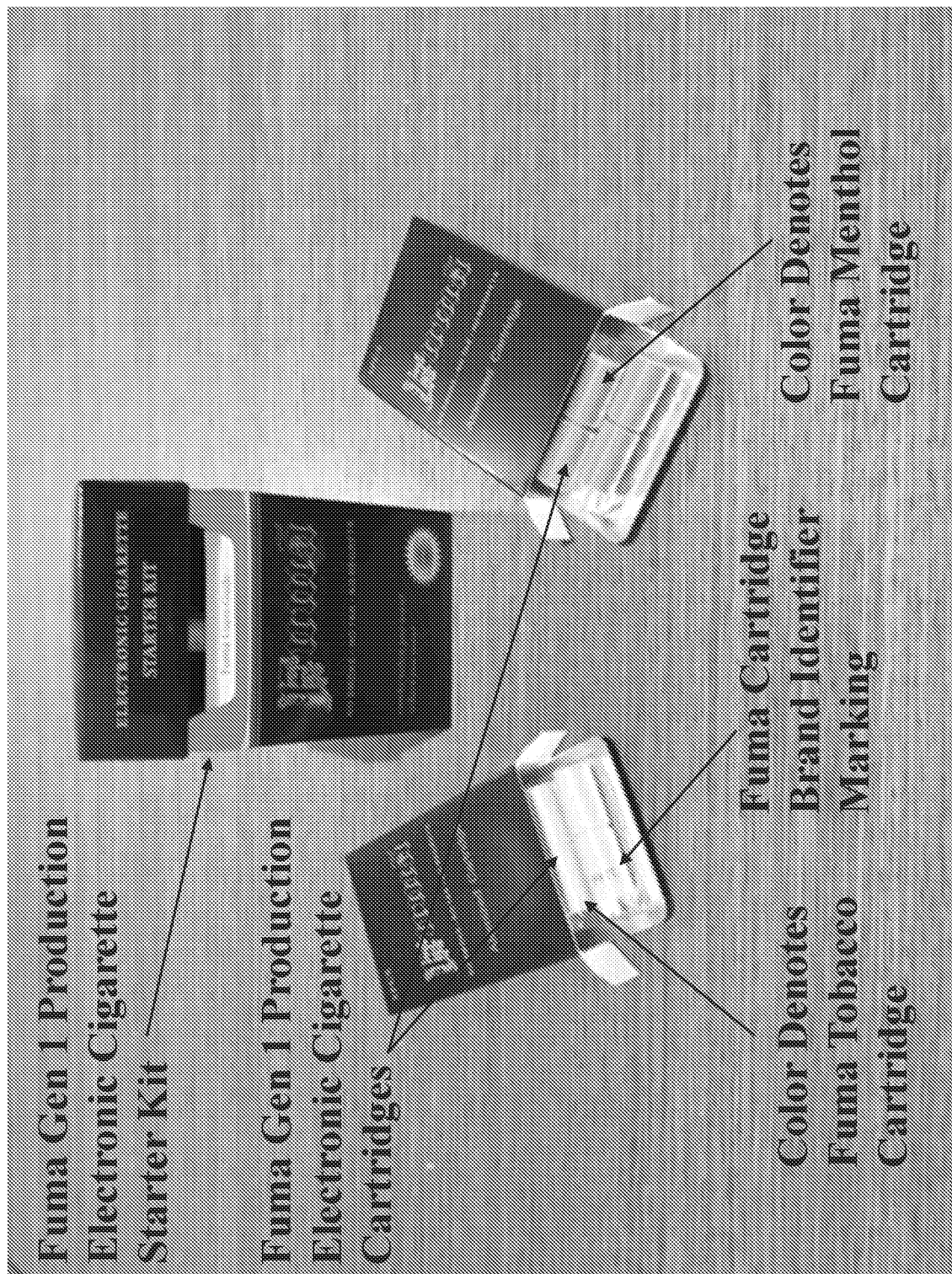
6. The product and the componentry thereof shown in Exhibit A and embodied in independent claims 41, 56, 69, and 80 was sold to customers of Fuma International LLC before January 13, 2010, as evidenced by Exhibit B. To illustrate, page 1 of Exhibit B depicts Invoice No. 41 and shows Deluxe Starter Kits and various Cartridges (corresponding to those shown in Figs. 1-17 of Exhibit A) were sold before January 13, 2010, and page 2 of Exhibit B depicts Invoice No. 44 and shows that Deluxe Starter Kits and various Cartridges (corresponding to those shown in Figs. 1-17 of Exhibit A) also were sold before January 13, 2010.

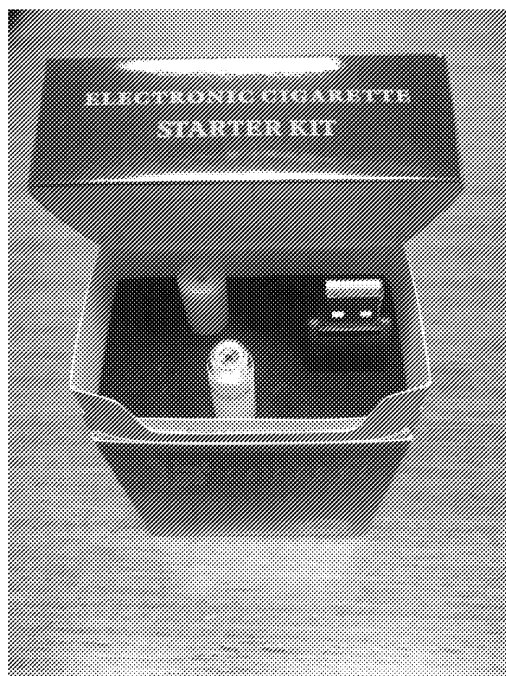
I declare further that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further, that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, 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 patents issuing thereon.

Dated: 2/16/2021

By: Gregory D. Conley
Gregory D. Conley

Figure: 1



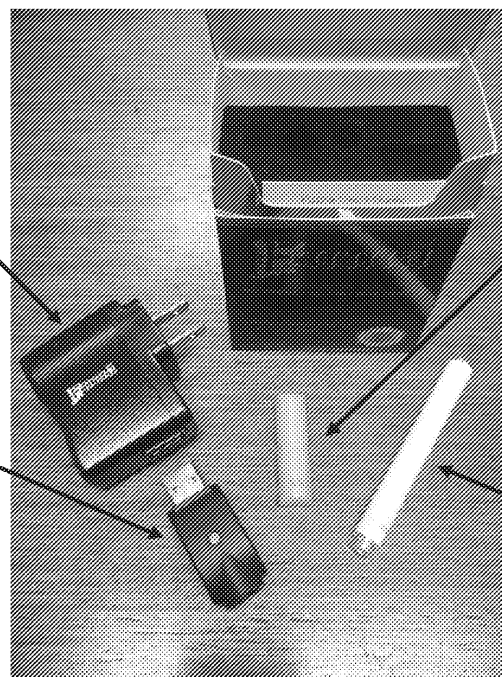


Fuma Wall Charger

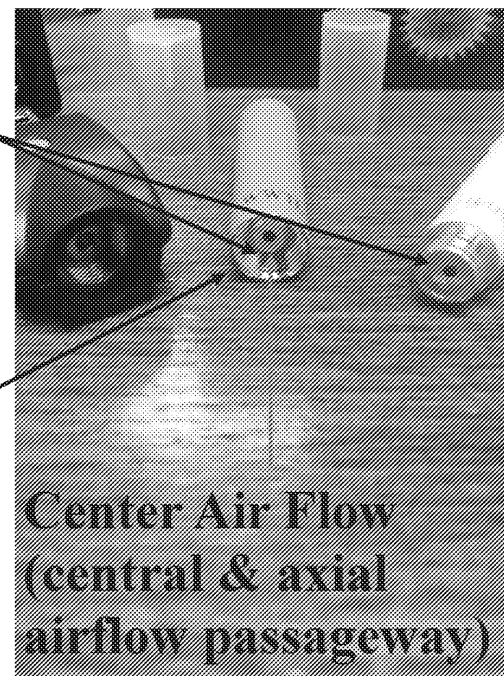
Fuma USB Charger

Figure: 2

**Fuma Cartridge
Screw (first end of the
Cartridge housing)**



**Electrical
Conductive
Threaded
Portion**



**Center Air Flow
(central & axial
airflow passageway)**

Fuma Cartridge

Fuma Battery

Figure: 3



Figure: 4



Figure: 5



Figure: 6

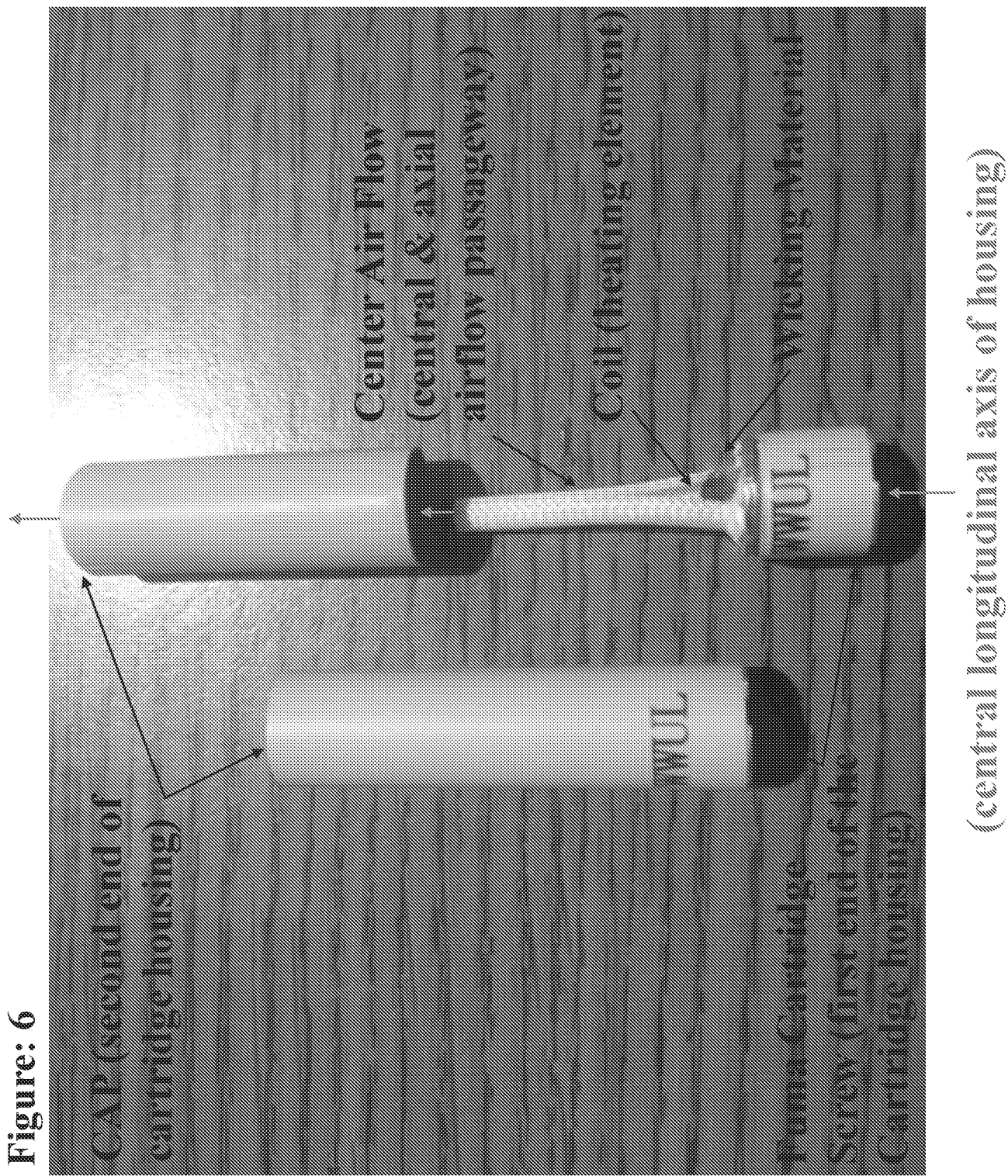


Figure: 7

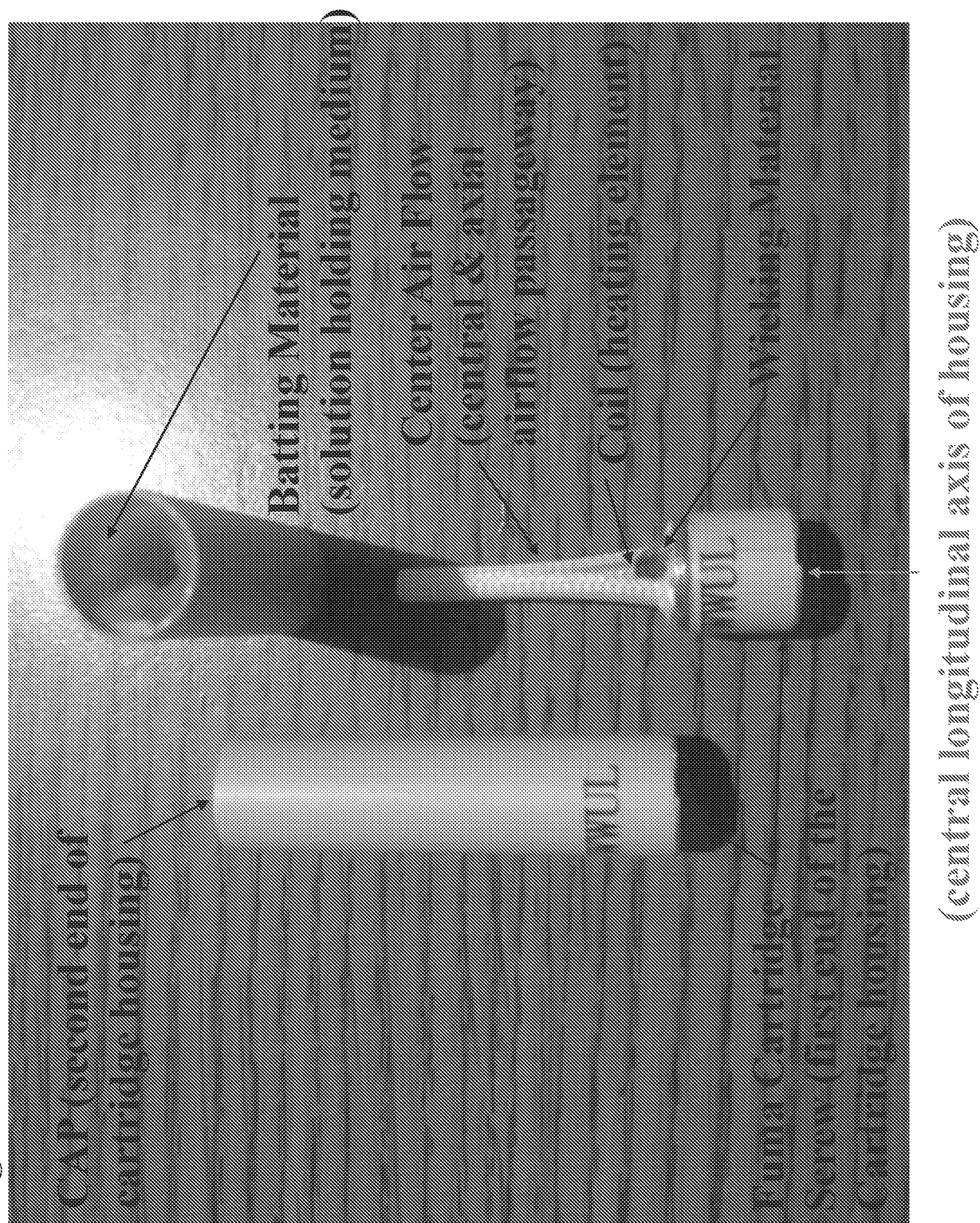


Figure: 8

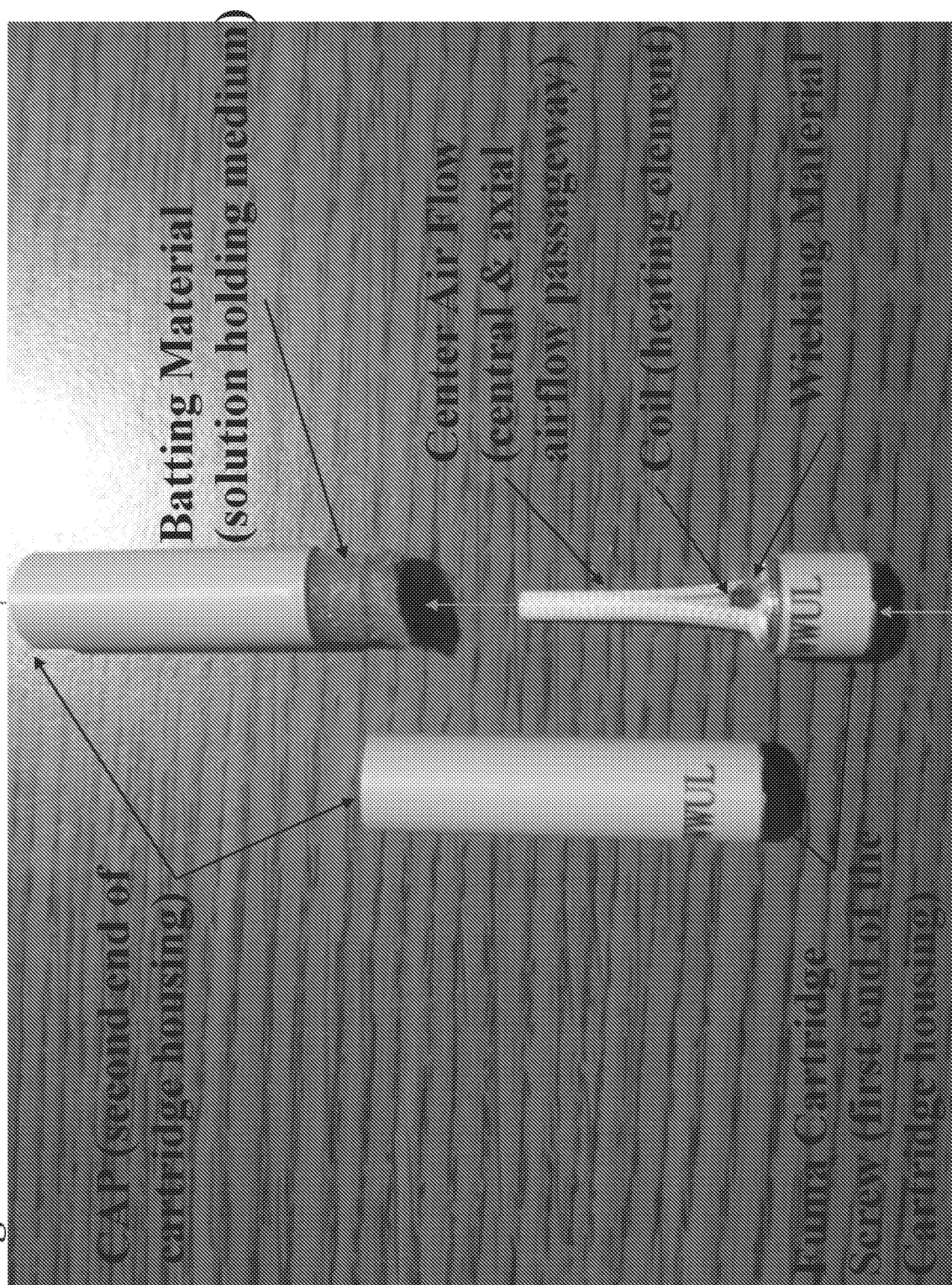


Figure: 9

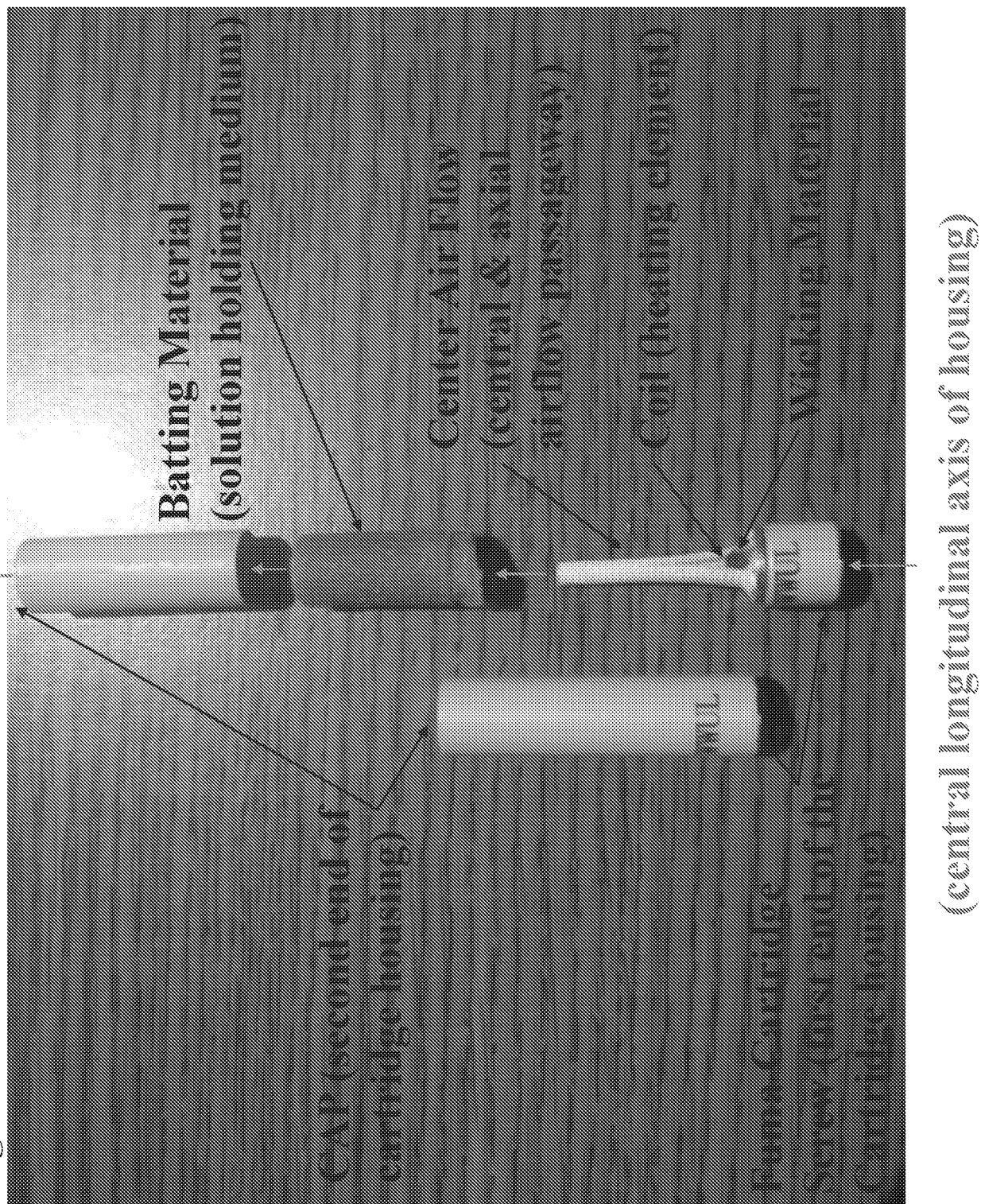


Figure: 10

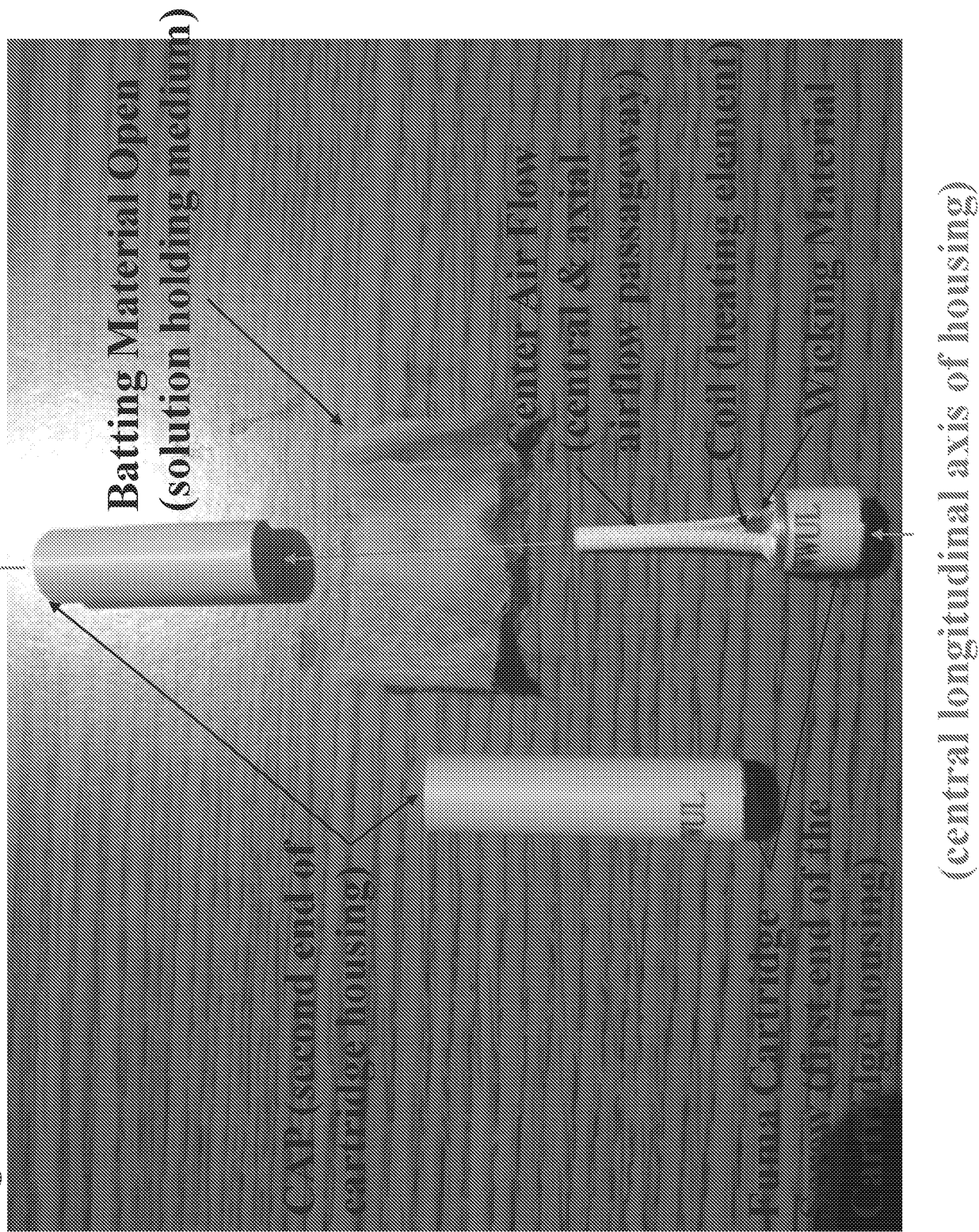


Figure: 11

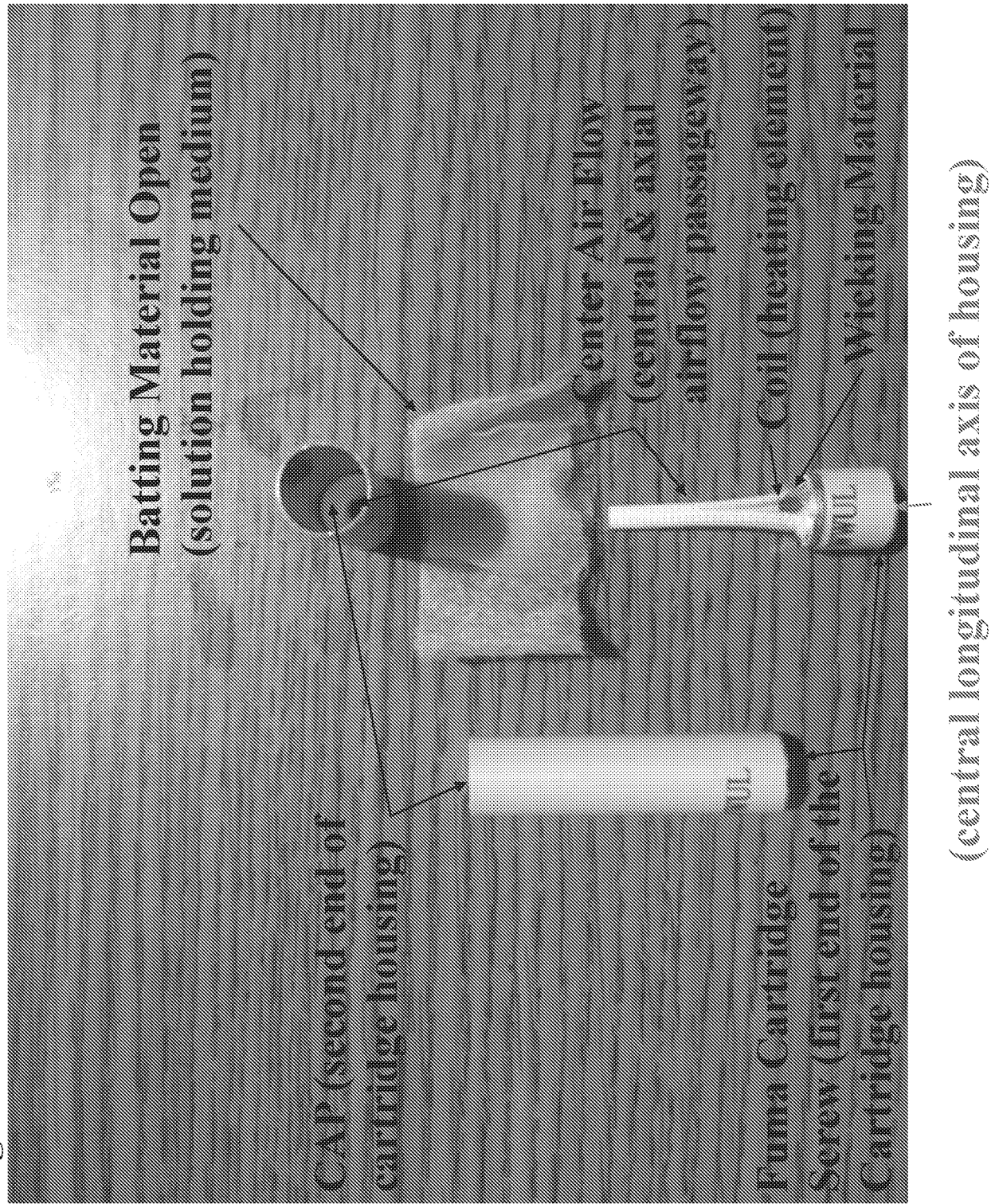


Figure: 12

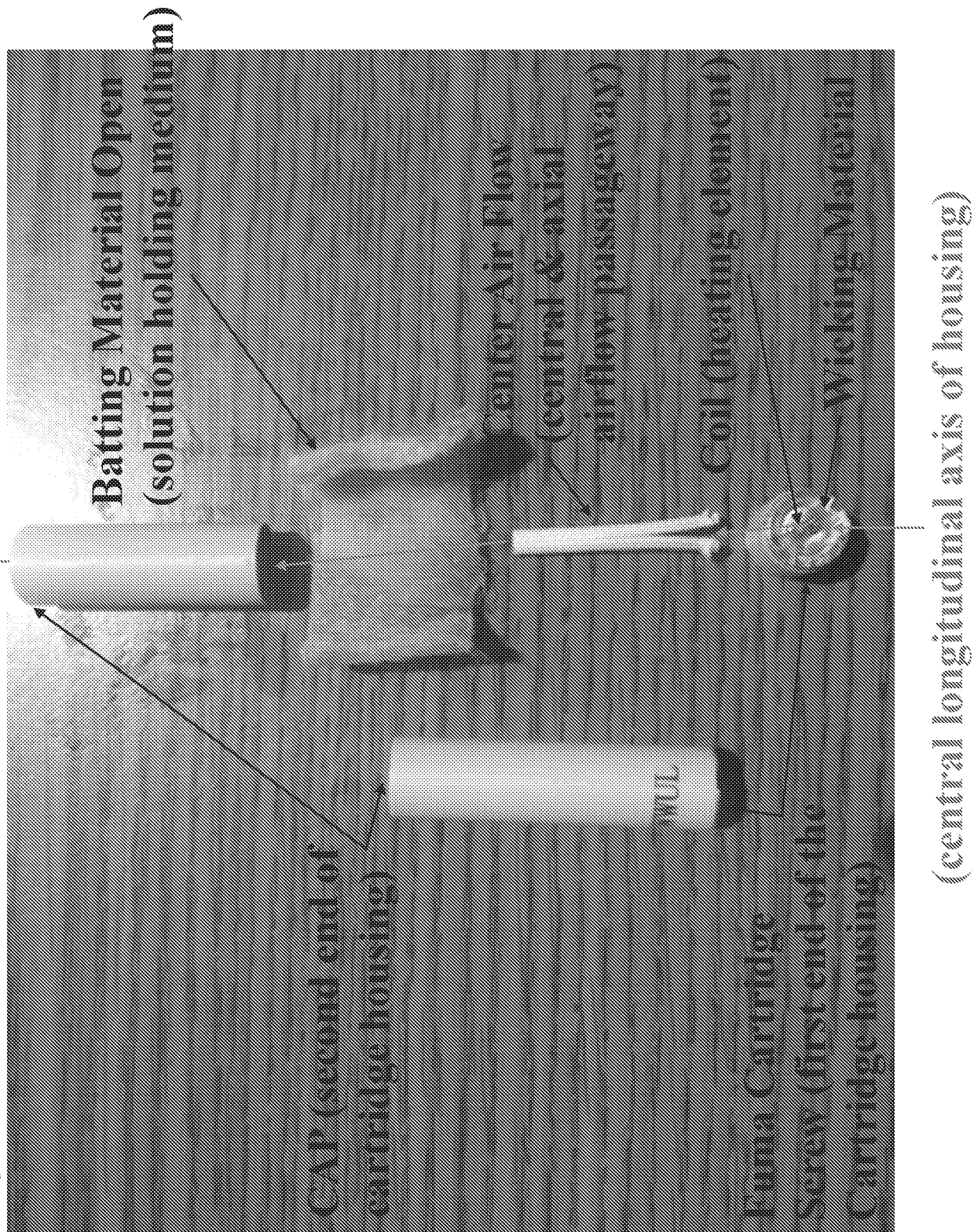


Figure: 13

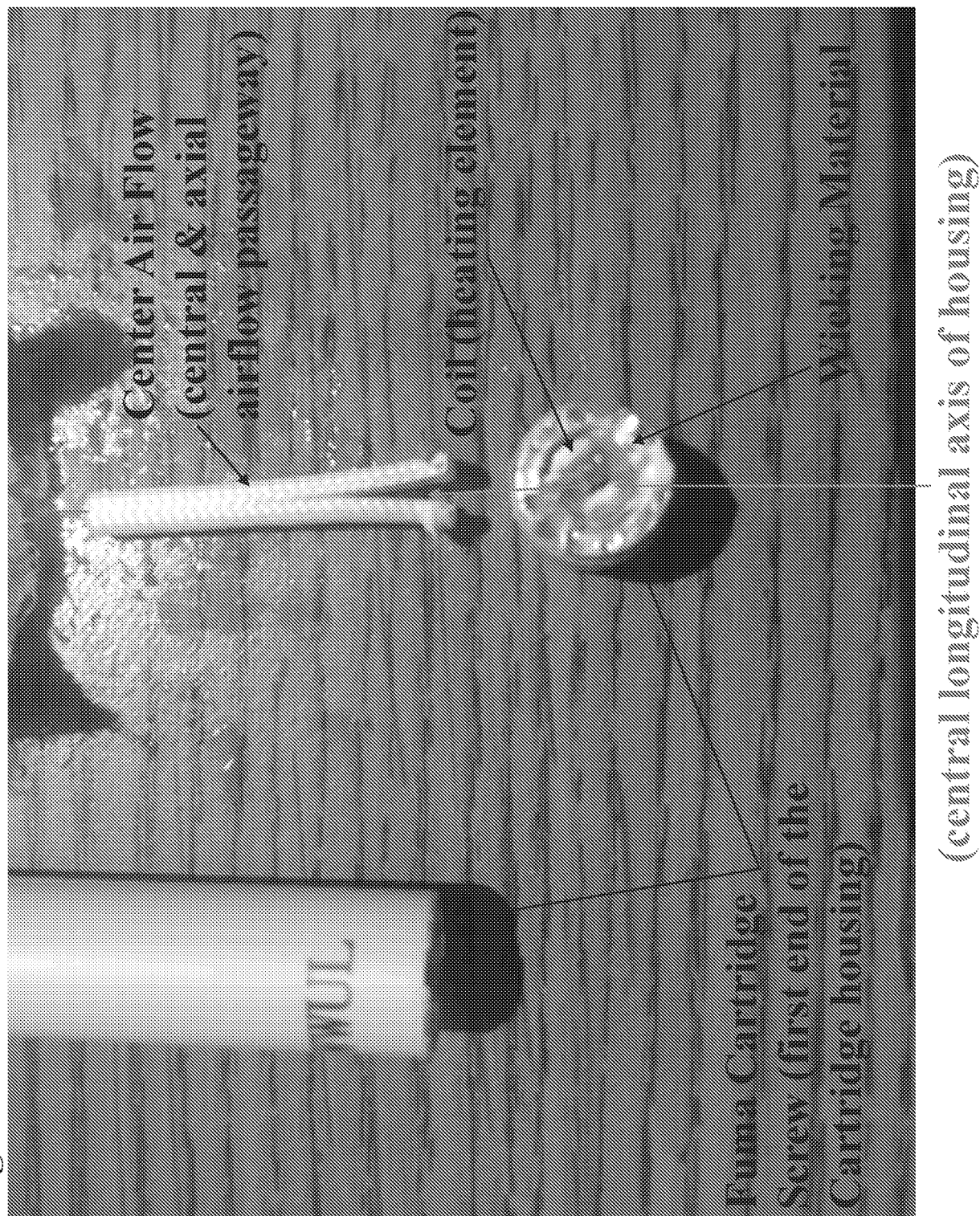


Figure: 14

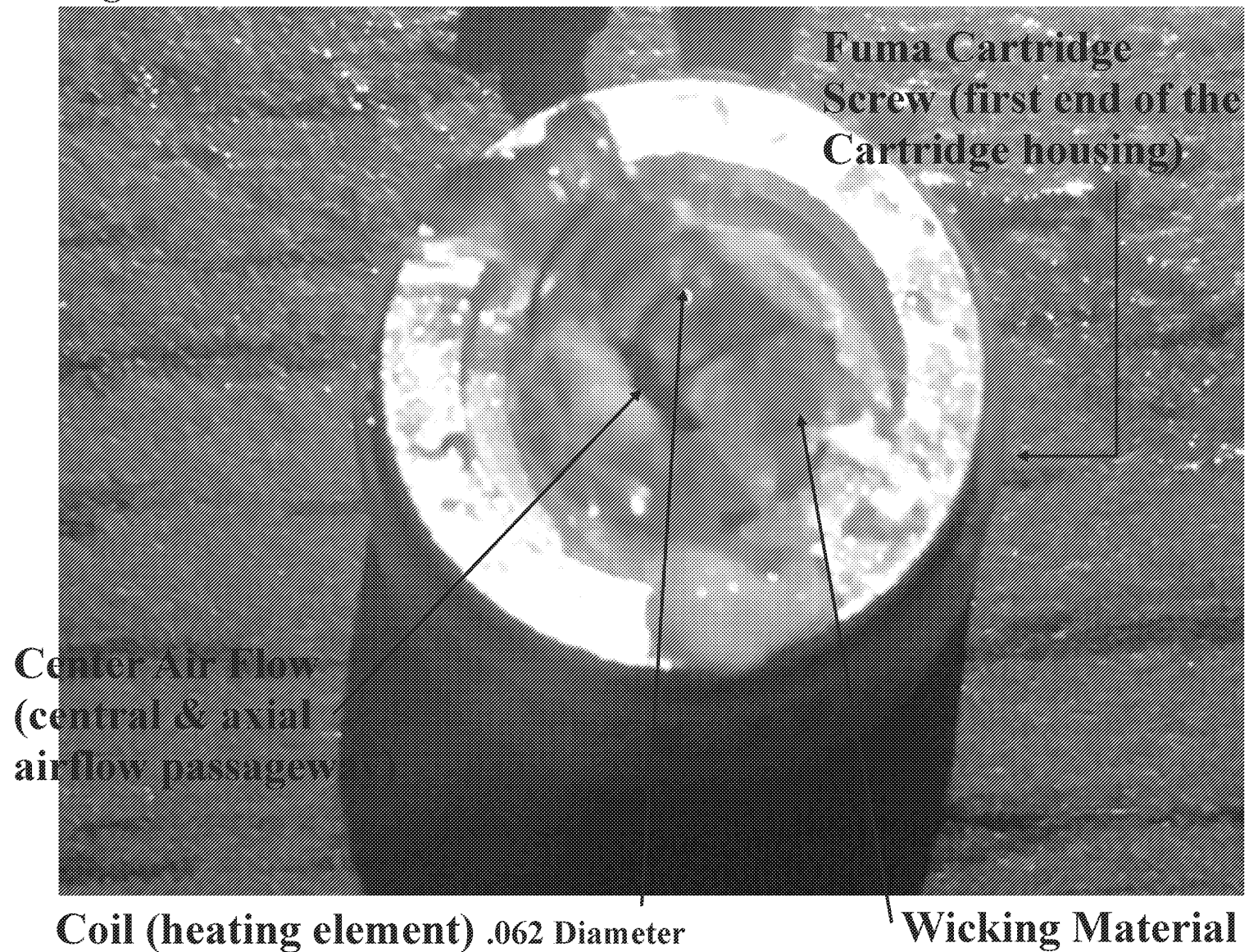


Figure: 15

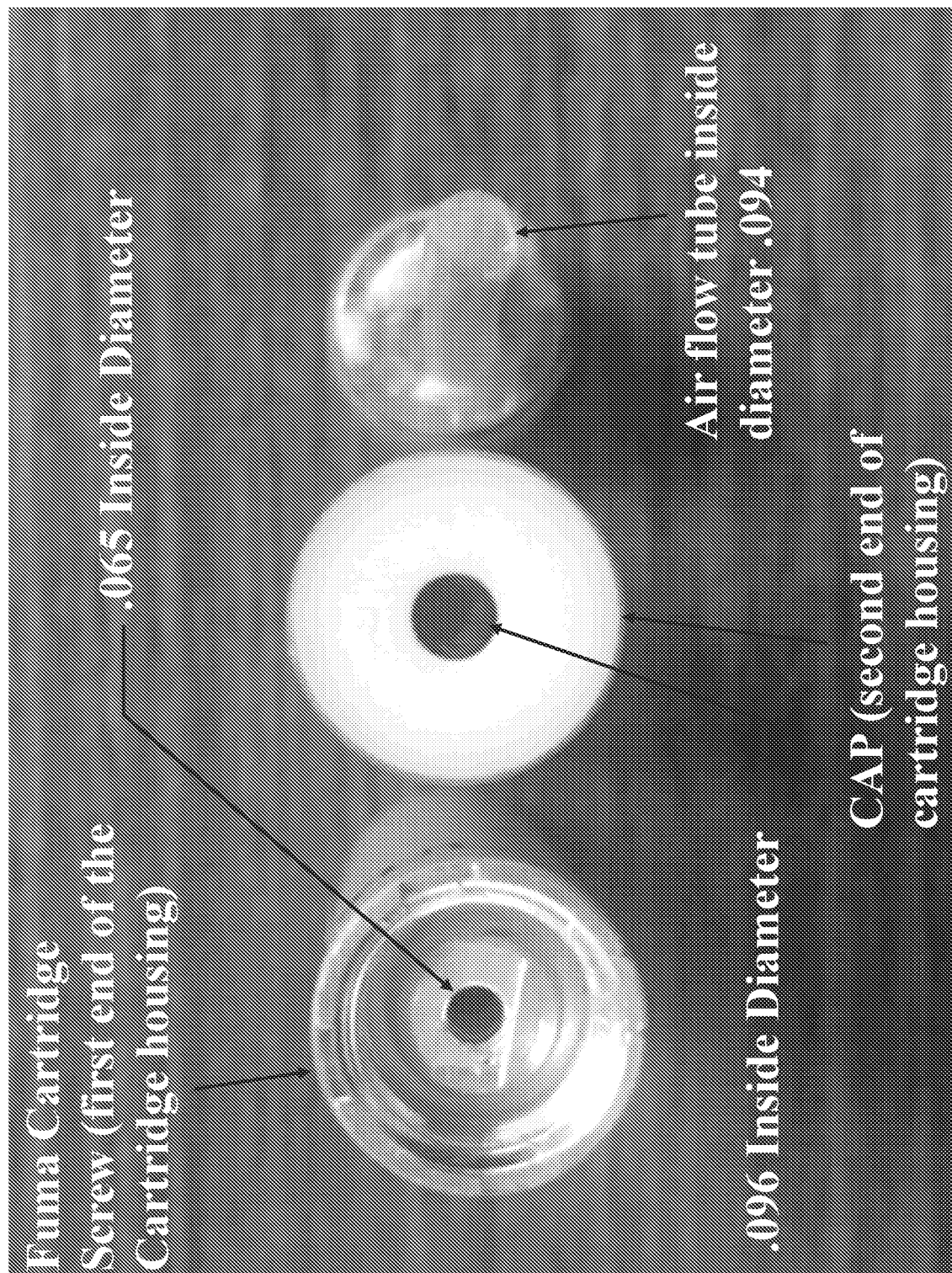


Figure: 16

Measurement from the top of the coil to the top of air flow tube is approximately .798

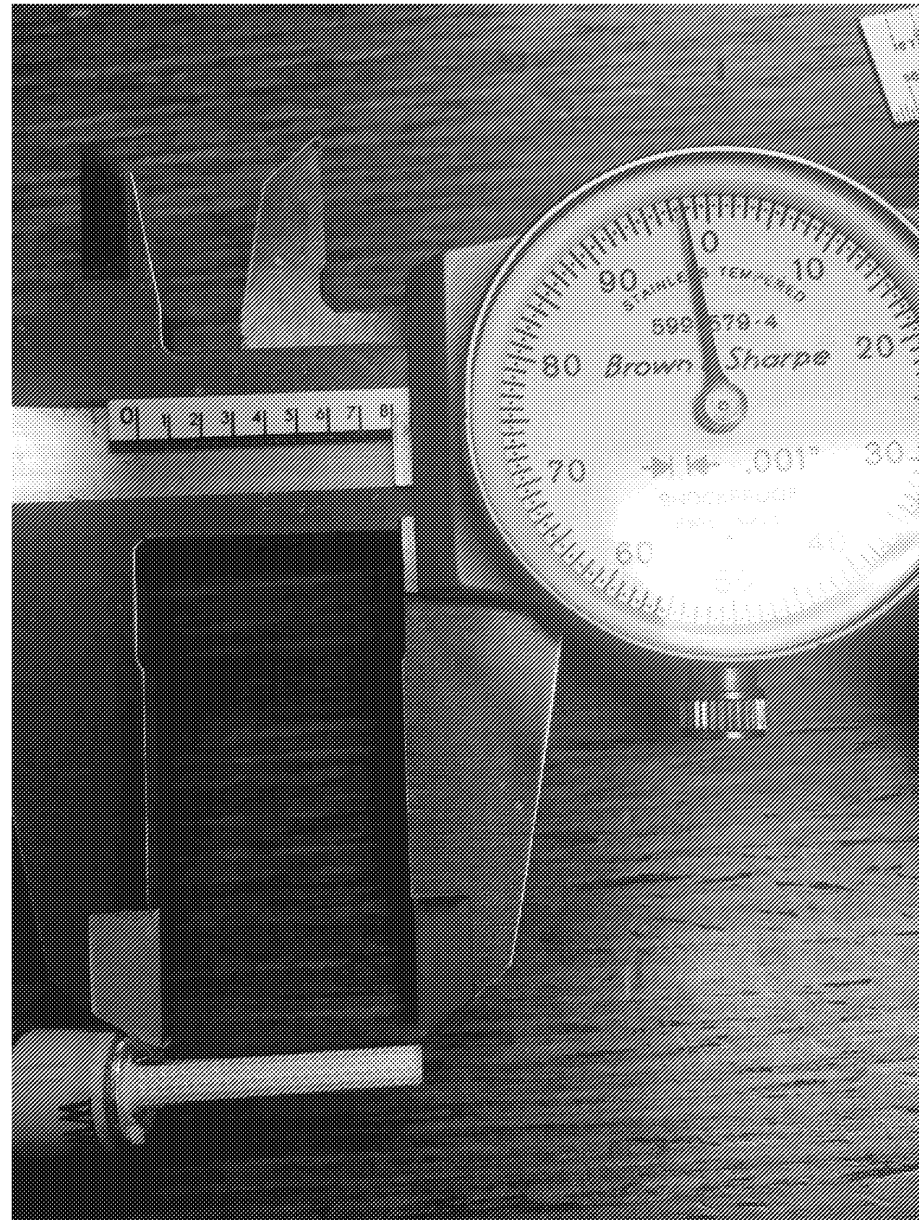


Figure: 17

Measurement from the top of the air flow tube to the edge of the slit is approximately .414

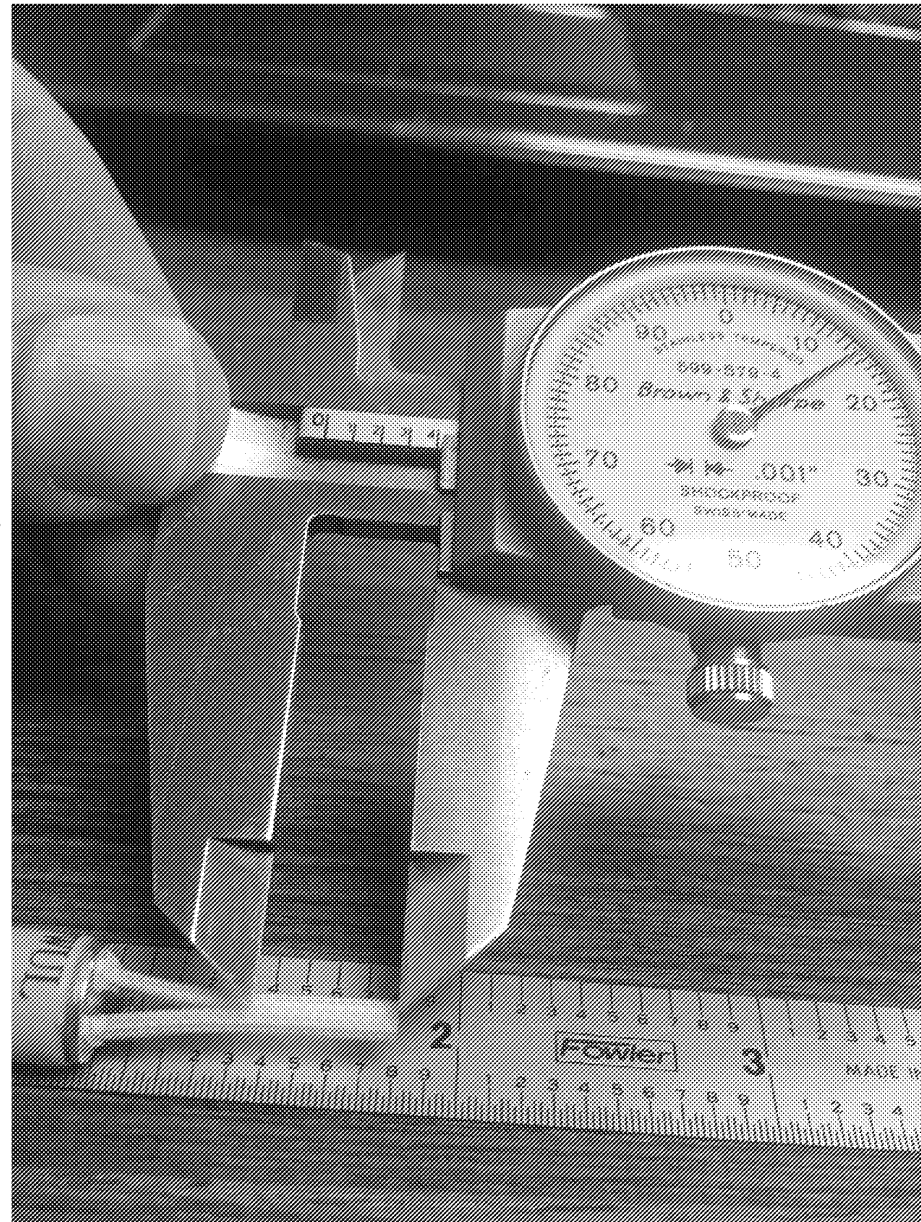


EXHIBIT B

PAID

Fuma International LLC

879 S. Progress Drive
Suite D
Medina, OH 44256

Invoice

Date	Invoice #
11/20/2009	41

Bill To
Adeo Distributing 221 Cherry Ave. NE Canton, Ohio 44702

Ship To

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project
adco-2	Due on receipt		11/20/2009			
Quantity	Item Code	Description			Price Each	Amount
2	Deluxe SK WWTL	Deluxe Starter Kit WWTL			18.54	37.08
2	Deluxe SK MCHL	Deluxe Starter Kit MCHL			18.54	37.08
3	Cartridges-WWTF	Wild West Tobacco Full Cartridges 5 pack			6.85	20.55
7	Cartridges-WWTL	Wild West Tobacco Lights Cartridges 5 pack			6.85	47.95
6	Cartridges-WWTUL	Wild West Ultra Lights Cartridges 5 pack			6.85	41.10
1	Cartridges-MFF	Menthol Full Freeze Cartridges 5 pack			6.85	6.85
1	Cartridges-MCHUL	Menthol Clean Breeze Ultra Lights Cartridges 5 pack			6.85	6.85
4	X-Car Charger	Car Charger			5.00	20.00
1	X-Travel Charger ...	Travel Charger Carrying Case			19.95	19.95
1	Shipping	Shipping & Handling Charge			0.00	0.00
					Total	\$237.41

NJOY Exhibit 2029.195

Juul v. NJOY

IPR2024-00161

PAID
12/14/09
15th full receipt
Check # 12,699.55

PAID

International LLC
S. Progress Drive
Suite D
Medina, OH 44256

Invoice

Date	Invoice #
11/5/2009	44

Bill To
Great Midwest Tobacco 10825 Medallion Dr. Evendale, Ohio 45241

Ship To

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project
GMT-1	Due on receipt		11/30/2009	Fuma Truck		
Quantity	Item Code	Description			Price Each	Amount
313	Deluxe SK WWTL	Deluxe Starter Kit WWTL			18.2619	5,715.97
159	Deluxe SK MCBL	Deluxe Starter Kit MCBL			18.2619	2,903.64
500	Cartridges-WWTF	Wild West Tobacco Full Cartridges 5 pack			6.74725	3,373.63
500	Cartridges-WWTL	Wild West Tobacco Lights Cartridges 5 pack			6.74725	3,373.63
400	Cartridges-WWTL/L	Wild West Ultra Lights Cartridges 5 pack			6.74725	2,698.90
400	Cartridges-MFF	Menthol Full Freeze Cartridges 5 pack			6.74725	2,698.90
500	Cartridges-MCBL	Menthol Clean Breeze Lights Cartridges 5 pack			6.74725	3,373.63
					Total	\$24,138.30

Electronic Acknowledgement Receipt	
EFS ID:	41964830
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	19-FEB-2021
Filing Date:	25-JUN-2019
Time Stamp:	09:53:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	Declaration_and_Exhibit_A.pdf	3451705	no	34
			dabd8214a25888b04057620a53b8b1b69f0ad404		

Warnings:

**NJOY Exhibit 2029.197
Juul v. NJOY
IPR2024-00161**

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Total Files Size (in bytes):	3451705
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RESCISSION OF PREVIOUS NONPUBLICATION REQUEST

(35 U.S.C. 122(b)(2)(B)(ii))

AND, IF APPLICABLE,

NOTICE OF FOREIGN FILING

(35 U.S.C. 122(b)(2)(B)(iii))

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Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

FAX: (571) 273-8300

Application Number	16/451,483
Filing Date	June 25, 2019
First Named Inventor	Gregory D. Conley
Title	ELECTRONIC VAPORIZER
Atty Docket Number	269.0003-03000
Art Unit	3600
Examiner	

A request that the above-identified application not be published under 35 U.S.C. 122(b) (nonpublication request) was included with the above-identified application on filing pursuant to 35 U.S.C. 122(b)(2)(B)(i).

I hereby **rescind** the previous nonpublication request.

If a notice of foreign or international filing is or will be required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c), I hereby provide such notice. This notice is being provided no later than forty-five (45) days after the date of such foreign or international filing.

If a notice of subsequent foreign or international filing required by 35 U.S.C. 122(b)(2)(B)(iii) and 37 CFR 1.213(c) was not filed within forty-five (45) days after the date of filing of the foreign or international application, the application is ABANDONED, and a petition to revive under 37 CFR 1.137(b) is required. See 37 CFR 1.137(f).

/Thomas H. Martin/

April 22, 2021

Signature

Date

Thomas H. Martin

34,383

Typed or printed name

Registration Number, if applicable

330-877-0700

Telephone Number

This request must be signed in compliance with 37 CFR 1.33(b).

If information or assistance is needed in completing this form, please contact the Pre-Grant Publication Division at (703)605-4283 or by e-mail at PGPub@USPTO.gov.

CERTIFICATE OF MAILING OR TRANSMISSION

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Date

This collection of information is required by 37 CFR 1.213(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 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: Mail Stop PG Pub, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Electronic Acknowledgement Receipt	
EFS ID:	42522305
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	22-APR-2021
Filing Date:	25-JUN-2019
Time Stamp:	11:59:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Rescind Nonpublication Request for Pre Grant Pub	Recision_of_Non-Publication. pdf	158110	no	1
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Warnings:

Information:	
Total Files Size (in bytes):	158110
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>	



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000

CONFIRMATION NO. 5143

NONPUBLICATION RESCISSION
LETTER



OC000000125117741

Date Mailed: 04/26/2021

22882
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

**Communication Regarding Rescission Of
Nonpublication Request and/or Notice of Foreign Filing**

Applicant's rescission of the previously-filed nonpublication request and/or notice of foreign filing is acknowledged. The paper has been reflected in the Patent and Trademark Office's (USPTO's) computer records so that the earliest possible projected publication date can be assigned.

The projected publication date is 08/05/2021.

If applicant rescinded the nonpublication request before or on the date of "foreign filing,"¹ then no notice of foreign filing is required.

If applicant foreign filed the application after filing the above application and before filing the rescission, and the rescission did not also include a notice of foreign filing, then a notice of foreign filing (not merely a rescission) is required to be filed within 45 days of the date of foreign filing. See 35 U.S.C. § 122(b)(2)(B)(iii), and Clarification of the United States Patent and Trademark Office's Interpretation of the Provisions of 35 U.S.C. § 122(b)(2)(B)(ii)-(iv), 1272 Off. Gaz. Pat. Office 22 (July 1, 2003).

If a notice of foreign filing is required and is not filed within 45 days of the date of foreign filing, then the application becomes abandoned pursuant to 35 U.S.C. § 122(b)(2)(B)(iii). In this situation, applicant should either file a petition to revive or notify the Office that the application is abandoned. See 37 CFR 1.137(f). Any such petition to revive will be forwarded to the Office of Petitions for a decision. Note that the filing of the petition will not operate to stay any period of reply that may be running against the application.

Questions regarding petitions to revive should be directed to the Office of Petitions at (571) 272-3282.

¹ Note, for purpose of this notice, that "foreign filing" means "filing an application directed to the same invention in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing".

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.

/byemane/

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
(Use several sheets if necessary) Sheet <u>1</u> of <u>1</u>			Filing Date June 25, 2019		Art Unit 3600	Examiner
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U.S. PUBLICATION DOCUMENTS						
NON PATENT LITERATURE DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
	Memorandum and Order dated May 24, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
EXAMINER		DATE CONSIDERED				
EXAMINER: Initial if citation 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 the applicant.						

Electronic Acknowledgement Receipt	
EFS ID:	42852647
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	28-MAY-2021
Filing Date:	25-JUN-2019
Time Stamp:	16:22:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	IDS.pdf	82213	no	2
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Warnings:

**NJOY Exhibit 2029.204
Juul v. NJOY
IPR2024-00161**

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	SB08.pdf	102217	no	1
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Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Non Patent Literature	Memorandum_Opinion_and_Order_24MAY2021.pdf	305061	no	19
			02555c42a5b1441a3cc1b0a3636ffdc46f34b026		
Warnings:					
Information:					
Total Files Size (in bytes):			489491		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3600
Filed: June 25, 2019	)	
For: ELECTRONIC VAPORIZER	)	

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

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed non-U.S. patent documents are attached. Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Applicant brings to the attention of the Examiner the existence of the litigation proceeding, i.e., Civil Action No. 19-260 in the U.S. District Court for the Middle District of North Carolina between Plaintiff Fuma International LLC (Fuma) and Defendant R.J. Reynolds Vapor Company (RJR), asserting infringement of U.S. Patent Nos. 9,532,604 and 10,334,881. The '604 patent issued from application serial no. 14/510,955, which is the parent of application serial no. 15/377,522 (now the '881 patent), which is the parent of the current pending above-identified application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicant determines

that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: May 28, 2021

By: /Thomas H. Martin/
Thomas H. Martin
Registration No. 34,383

1557 Lake O'Pines Street, NE
Hartville, Ohio 44632
Telephone: (330) 877-0700



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
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000

CONFIRMATION NO. 5143

PUBLICATION NOTICE

22882
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632



Title:ELECTRONIC VAPORIZER

Publication No.US-2021-0235772-A1

Publication Date:08/05/2021

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 publicly 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 Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
(Use several sheets if necessary) Sheet <u>1</u> of <u>1</u>			Filing Date June 25, 2019		Group Art Unit 3761	Examiner T.S. Campbell
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U.S. PATENT PUBLICATION DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
NON PATENT LITERATURE DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
	Transcript of Summary Judgement Motion Hearing dated April 27, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Submission of Defendant's Powerpoint Presentations Published During the Summary Judgement Hearing dated April 29, 2021 and Exhibits A and B.					
	Defendant R.J. Reynolds Vapor Company's Motion to Reconsider Order (DKT. 139) Granting Motion for Summary Judgement dated June 1, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Defendant R.J. Reynolds Vapor Company's Brief in Support of Its Motion for Reconsideration dated June 1, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Plaintiff Fuma International LLC's Opposition to R.J. Reynold's Motion for Reconsideration of the Court's Summary Judgement Order on Infringement dated June 22, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Reconsideration dated July 6, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Order dated July 28, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
EXAMINER		DATE CONSIDERED				
EXAMINER: Initial if citation 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 the applicant.						

Electronic Acknowledgement Receipt	
EFS ID:	43820355
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	21-SEP-2021
Filing Date:	25-JUN-2019
Time Stamp:	13:29:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	IDS.pdf	82262	no	2
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Warnings:

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This is not an USPTO supplied IDS fillable form					
3	Non Patent Literature	Transcript_Summary_Judgement_Hearing_27APR2021.pdf	245114	no	89
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Information:					
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Warnings:					
Information:					
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Information:					

9	Non Patent Literature	Order_27JUL2021.pdf	178379	no	4
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Warnings:					
Information:					
Total Files Size (in bytes):			9728423		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3761
Filed: June 25, 2019	)	Examiner: Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	

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

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed non-U.S. patent documents are attached. Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Applicant brings to the attention of the Examiner the existence of the litigation proceeding, i.e., Civil Action No. 19-260 in the U.S. District Court for the Middle District of North Carolina between Plaintiff Fuma International LLC (Fuma) and Defendant R.J. Reynolds Vapor Company (RJR), asserting infringement of U.S. Patent Nos. 9,532,604 and 10,334,881. The '604 patent issued from application serial no. 14/510,955, which is the parent of application serial no. 15/377,522 (now the '881 patent), which is the parent of the current pending above-identified application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicant determines

that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: September 21, 2021

By: /Thomas H. Martin/
Thomas H. Martin
Registration No. 34,383

1557 Lake O'Pines Street, NE
Hartville, Ohio 44632
Telephone: (330) 877-0700

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
<i>(Use several sheets if necessary)</i> Sheet 1 of 3			Filing Date June 25, 2019		Group Art Unit 3761	Examiner T.S. Campbell
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1,968,509	7/1934	Tiffany			
	6,155,268	12/2000	Takeuchi			
	6,598,607	7/2003	Adiga			
U.S. PATENT PUBLICATION DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	EP0845220	3/2003	EP			
	CN2719043	8/2005	CN			
	CN101366554	2/2009	CN			
	WO2004/095955	11/2004	WIPO			
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Fuma International, LLC's Rule 26(f) Report filed on May 28, 2019, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-6600260.					
	Exhibit A to Plaintiff Fuma International LLC's Rule 26(f) Report filed May 28, 2019, Proposed Schedule.					
	Exhibit B to Plaintiff Fuma International LLC's Rule 26(f) Report filed May 28, 2019, Proposed E-Discovery Order.					
	Exhibit C to Plaintiff Fuma International LLC's Rule 26(f) Report filed May 28, 2019, Proposed Protective Order.					
	Exhibit D to Plaintiff Fuma International LLC's Rule 26(f) Report filed May 28, 2019, Proposed Supplemental Protective Order.					
	Defendant R.J. Reynolds Vapor Company's Notice Pursuant to 25 U.S.C. § 282 dated October 15, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660, with Publications.					
	Electronic cigarette - Wikipedia archival copy, dated February 9, 2010 from https://web.archive.org/ .					
	Joining of Materials and Structures, From Pragmatic Process to Enabling Technology, Robert W. Messler, Jr., 2004 (Exerpt).					
	Smoke Anywhere USA, Inc. to Introduce Its Electronic Cigarette Fifty-One with Comments, August 16, 2008.					

	NEW Electronic Cigarette- Cool 3D! by Smoke51.com with Comments, October 31, 2008.
	Smoke51.com Website Excerpts.
	Smoke 51 User Manual.
	Trans-Power Website Excerpts.
	E-Cig Forum Website (Smoke51).
	Leaford's YouTube Channel, E-8 84mm Disposable Cartomizer E-Cigarette, Leaford's Vacation Special Part 2: The Sensation Micro (E8) From E-Smoke.net, https://www.youtube.com/watch?v=UTBfFAPJs1c , June 15, 2009.
	Rustylug's YouTube Channel with Comments, September 10, 2008.
	Smoke51Ohio's Smoke 51 Duo Presentation.
	Smoke51Ohio's Smoke 51 Duo Marketing Piece.
	Smoke51Ohio's Press Release Announcing Fifty-One Product.
	Compare Fifty-One to Other Electronic Cigarettes.
	Plaintiff Fuma International LLC's Trial Brief dated October 25, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.
	Exhibit 1 to Plaintiff Fuma International LLC's Trial Brief dated October 25, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.
	Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.
	Exhibit A to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Gregory D. Conley Deposition Transcript Excerpts.
	Exhibit B to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Shanhong Wang Compressed Deposition Transcript.
	Exhibit C to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Shanhong Wang Deposition Exhibit 5.
	Exhibit D to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Publication No. CN101366554 Application in English and Chinese.
	Exhibit E to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Publication No. CN201085044 to Fang Xiaolin in English.
	Exhibit F to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, U.S. Patent Publication No. 2009/0095311 to Li Han.
	Exhibit G to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, U.S. Patent No. 4,947,874 to Brooks et al.
	Exhibit H to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Prosecution History of U.S. Application Serial No. 12/843,917.
	Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.
	Exhibit 1 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 2 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 3 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 4 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 5 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 6 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 7 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 8 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 9 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 10 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 11 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.

INFORMATION DISCLOSURE STATEMENT

Application Number: 16/451,483

	Exhibit 12 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation 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 the applicant.	

Electronic Acknowledgement Receipt	
EFS ID:	44997737
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	15-FEB-2022
Filing Date:	25-JUN-2019
Time Stamp:	11:32:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Warnings:

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Information:					
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Warnings:					
Information:					
6	Non Patent Literature	Electronic_Cigarette_Wikipedia_Archival_Copy.pdf	5219877	no	8
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7	Non Patent Literature	Joining_of_Materials_Robert_W_Messler_2004.pdf	706022	no	7
			ec78b0e2fb7adb99fca9a6473fd691db7b25853		
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8	Non Patent Literature	Smoke_Anywhere_Introduce_Electronic_Cigarette_51.pdf	9722404	no	3
			80aaa84ab8d8adfc7c0967ebc412a2f6b81a4dca		
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9	Non Patent Literature	New_Electronic_Cigarette_Cool_3D.pdf	9159028	no	3
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10	Non Patent Literature	Smoke51_Website_Excerpts_.pdf	493965	no	10
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11	Non Patent Literature	Smoke_51_User_Manual_.pdf	1092786	no	24
			840686129ad8045c8dc1459054ae35983f4536db		
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12	Non Patent Literature	Trans-Power_Website_Excerpts_.pdf	3215478	no	77
			2848571be3a26da68d6f778cfce8e959ccc280a		
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13	Non Patent Literature	E-Cig_Forum_Website_Smoke51_.pdf	15600241	no	5
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14	Non Patent Literature	Rustylug-YouTube_Channel_.pdf	3627455	no	95
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15	Non Patent Literature	Smoke51_Ohio_Duo_Presentation_.pdf	867931	no	10
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16	Non Patent Literature	Smoke51_Duo_Marketing_Piece.pdf	129773	no	1
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17	Non Patent Literature	Smoke51_Press_Release.pdf	881277	no	1
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18	Non Patent Literature	Compare_Fifty-One_To_Other_E-Gigarettes.pdf	12399286	no	2
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19	Non Patent Literature	214_Fuma_Trial_Brief_.pdf	461487	no	27
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20	Non Patent Literature	214_01_Exhibit_1_.pdf	5087938	no	26
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21	Non Patent Literature	215_RJRV_Trial_Brief_.pdf	1704252	no	41
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22	Non Patent Literature	215_02_Exhibit_B_.pdf	4609454	no	31
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23	Non Patent Literature	215_03_Exhibit_C_.pdf	6256244	no	19
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24	Non Patent Literature	215_04_Exhibit_D_.pdf	20033926	no	22
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25	Non Patent Literature	215_05_Exhibit_E.pdf	3199653	no	11
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26	Non Patent Literature	215_06_Exhibit_F.pdf	5227499	no	16
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27	Non Patent Literature	215_07_Exhibit_G.pdf	17283516	no	29
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28	Non Patent Literature	215_08_Exhibit_H.pdf	8968653	no	21
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29	Transmittal Letter	IDS.pdf	82278	no	2
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30	Information Disclosure Statement (IDS) Form (SB08)	SB08.pdf	137729	no	3
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31	Non Patent Literature	Wang_Deposition_REVISED_.pdf	205151	no	117
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32	Non Patent Literature	Wang_Deposition_Exhibit_1_.pdf	7566584	no	10
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37	Non Patent Literature	Wang_Deposition_Exhibit_6_.pdf	168602	no	1
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38	Non Patent Literature	Wang_Deposition_Exhibit_7_.pdf	454361	no	2
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39	Non Patent Literature	Wang_Deposition_Exhibit_9_.pdf	200034	no	1
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40	Non Patent Literature	Wang_Deposition_Exhibit_10_.pdf	130911	no	1
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44	Non Patent Literature	Section_282_Notice_with_Publication_Materials_.pdf	22001184 6cad539677f5ce719fbc7ea06844b00678a23276	no	258
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Total Files Size (in bytes):			188273519		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3761
Filed: June 25, 2019	)	Examiner: Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	

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

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed non-U.S. patent documents are attached. Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Applicant brings to the attention of the Examiner the existence of the now-settled litigation proceeding, i.e., Civil Action No. 19-260 in the U.S. District Court for the Middle District of North Carolina between Plaintiff Fuma International LLC (Fuma) and Defendant R.J. Reynolds Vapor Company (RJR), asserting infringement of U.S. Patent Nos. 9,532,604 and 10,334,881. The '604 patent issued from application serial no.14/510,955, which is the parent of application serial no. 15/377,522 (now the '881 patent), which is the parent of the current pending above-identified application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicant determines

that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: February 15, 2022

By: /Thomas H. Martin/
Thomas H. Martin
Registration No. 34,383

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000	5143
22882	7590	03/14/2022		
MARTIN & FERRARO, LLP 1557 LAKE O'PINES STREET, NE HARTVILLE, OH 44632			EXAMINER CAMPBELL, THOR S	
			ART UNIT	PAPER NUMBER
			3761	
			NOTIFICATION DATE	DELIVERY MODE
			03/14/2022	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):

USPTO-docketing@martinferraro.com

Notice of Pre-AIA or AIA Status

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

Affidavit Under 37 CFR 1.131(a)

The affidavit filed on 02/19/2021 under 37 CFR 1.131(a) is sufficient to overcome the CN201379072 reference.

Claim Rejections - 35 USC § 102

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

The following is a quotation of the appropriate paragraphs of pre-AIA 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 –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim(s) 41-80 is/are rejected under pre-AIA 35 U.S.C. 102(e) as being clearly anticipated by Han (US 2009/0095311A1).

Han discloses in reference to claim:

41. A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising: a housing (**a**) having an interior and a solution holding medium (9) adapted to hold a solution, the housing having a first end and a second end that is opposite the first end, the housing having a first aperture (**a1**) proximate the first end and a second aperture (**b1**) proximate the second end, the first end of the housing being adapted to electrically couple to the power source (**3**), the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture; and a heating element (**83**) located in the interior of the housing, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow, the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source. Note: the cartridge couples to the power source, as such one can interpret the area of coupling to the power source as the first end of the cartridge.

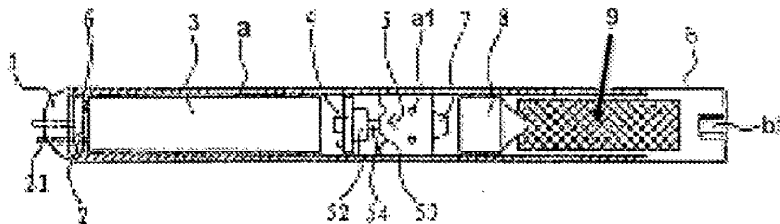


Figure 19

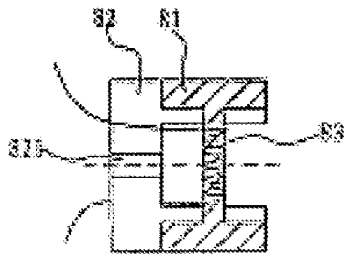


Figure 18

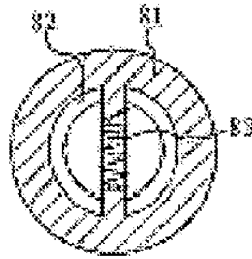


Figure 17

42. The cartridge of claim 41, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery 3.

43. The cartridge of claim 41, wherein the cartridge is adapted to permit the airflow to pass on both transverse sides of the heating element during use of the electronic vaporizer. See Fig. 17

44. The cartridge of claim 41, wherein the heating element includes a wicking material (porous material 81) being operative to permit at least a portion of the solution to be held in the solution holding medium to be drawn toward the heating element 83 to be vaporized.

45. The cartridge of claim 41, wherein the first aperture a1 proximate the first end is smaller than the second aperture b1 proximate the second end. See Fig. 19, 1, 2

46. The cartridge of claim 41, further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine.

Han disclose: For this invention, the perforated component for liquid storage of the cigarette bottle assembly stores the nicotine liquid only, which doesn't contain cigarette tar, considerably reducing the carcinogenic risks of smoking.

47. The cartridge of claim 41, further comprising an airflow passageway 811 in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing.

48. The cartridge of claim 47, wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture. See Fig. 18

49. The cartridge of claim 47, wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture. See Fig. 18

50. The cartridge of claim 47, wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing. See Fig. 17, 18, 19

51. The cartridge of claim 41, wherein the heating element includes a coil. See Fig. 18

52. The cartridge of claim 41, wherein the housing further comprises an airflow chamber X having a length extending intermediate of the heating element 83 and the second aperture b1, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture. See Fig. 19

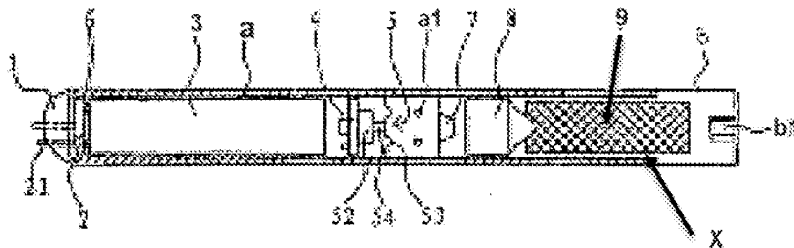


Figure 19

53. The cartridge of claim 41, wherein the housing further comprises an airflow chamber X having a length L extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area D along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture. See Fig. 19

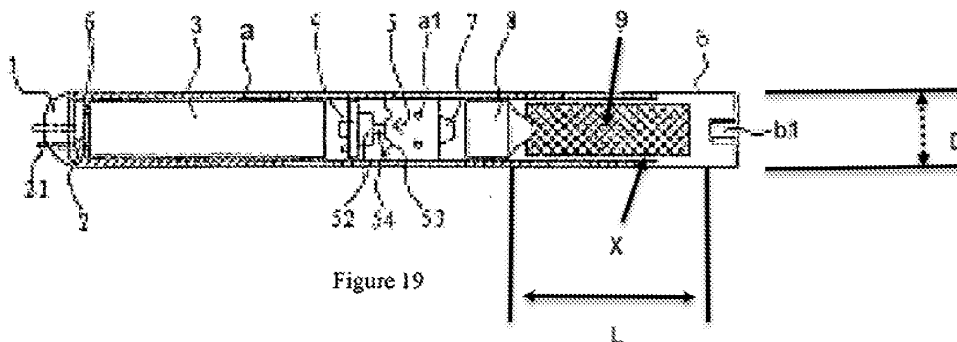


Figure 19

54. The cartridge of claim 41, wherein the airflow through the housing follows an airflow path, a first portion of the airflow path proximate the first aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing, and a second portion of the airflow path proximate to the second aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing. See Fig. 19 Note the air flow is substantially centrally and axially defined.

55. The cartridge of claim 41, wherein the heating element includes a material (wire) that when powered by the power source is adapted to vaporize the solution brought into contact with the heating element.

Regarding claims 56-80, see claims 41-55 *mutatis mutandis*

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOR S CAMPBELL whose telephone number is (571)272-4776. The examiner can normally be reached M,W-F 6:30-10:30, 12-4.

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, Dana Ross can be reached on 5172724480. 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.

THOR S. CAMPBELL
Examiner
Art Unit 3761

*/THOR S CAMPBELL/
Primary Examiner, Art Unit 3761*

<i>Notice of References Cited</i>	Application/Control No. 16/451,483	Applicant(s)/Patent Under Reexamination Conley et al.	
	Examiner THOR S CAMPBELL	Art Unit 3761	Page 1 of 2

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20080303286-A1	12-2008	Vangel; Peter D.	F03D3/02	290/55
*	B	US-20130309102-A1	11-2013	GRUENBACHER; Dana Paul	A61L9/145	417/54
*	C	US-20080073443-A1	03-2008	Tollens; Fernando Ray	B05B17/0646	222/638
*	D	US-20090272379-A1	11-2009	THORENS; Michel	A24D3/18	219/535
*	E	US-4947874-A	08-1990	Brooks; Johnny L.	A24F40/50	131/194
*	F	US-20090095311-A1	04-2009	Han; Li	H02J7/00	131/194
*	G	US-20050016550-A1	01-2005	Katase, Makoto	A24F40/50	131/194
*	H	US-6196218-B1	03-2001	Voges; Robert Martin	B05B17/0607	128/200.14
*	I	US-5894841-A	04-1999	Voges; Robert Martin	A61M15/06	128/200.14
*	J	US-8393331-B2	03-2013	Hon; Lik	A24B15/16	131/194
*	K	US-3200819-A	08-1965	GILBERT HERBERT A	A24F40/485	131/273
*	L	US-4947875-A	08-1990	Brooks; Johnny L.	A61M15/00	131/194
*	M	US-5144962-A	09-1992	Counts; Mary E.	A24D1/20	131/194

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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	Examiner THOR S CAMPBELL	Art Unit 3761	Page 2 of 2

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7845359-B2	12-2010	Montaser; Akbar	A61M15/009	438/689
*	B	US-9597466-B2	03-2017	Henry, Jr.; Raymond Charles	A61M11/042	1/1
*	C	US-1771366-A	07-1930	WYSS ALFRED U	A61M16/108	128/203.22
*	D	US-2057353-A	10-1936	Name not available		392/404
*	E	US-6155268-A	12-2000	Takeuchi; Manabu	A24F40/485	131/194
*	F	US-20090188490-A1	07-2009	Han; Li	A61M15/06	128/200.14
*	G	US-9022026-B2	05-2015	Fang; Xiaolin	A24F40/485	128/202.21
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Index of Claims</i> 	Application/Control No. 16/451,483	Applicant(s)/Patent Under Reexamination Conley et al.
	Examiner THOR S CAMPBELL	Art Unit 3761

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	03/09/2022								
	41	✓								
	42	✓								
	43	✓								
	44	✓								
	45	✓								
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	76	✓								
	77	✓								
	78	✓								
	79	✓								
	80	✓								

Search Notes 	Application/Control No. 16/451,483	Applicant(s)/Patent Under Reexamination Conley et al.
	Examiner THOR S CAMPBELL	Art Unit 3761

CPC - Searched*		
Symbol	Date	Examiner

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
Inventor search in DAV	03/09/2022	tsc
EAST search attached	03/09/2022	tsc
review related applications in DAV	03/09/2022	tsc

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

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OMB 0651-0031

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number (Cont. of 15/377,522)	
(Use several sheets if necessary) Sheet <u>1</u> of <u>4</u>			Filing Date June 25, 2019		Art Unit (3742)	Examiner (T.S. Campbell)
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2057353	9/1935	Whittemore, Jr.			
	3200819	08/1965	Gilbert			
	4284089	08/1981	Ray			
	4945929	08/1990	Egilmex			
	4947874	8/1990	Brooks			
	4966171	10/1990	Serrano et al.			
	4969476	11/1990	Bale et al.			
	5050621	09/1991	Creighton et al.			
	5115820	05/1992	Hauser et al.			
	5249586	10/1993	Morgan et al.			
	5865185	02/1999	Collins et al.			
	5878752	3/1999	Adams et al.			
	6196218	3/2001	Voges			
	6443146	9/2002	Voges			
	7412259	08/2008	Yoo et al.			
	D590990	04/2009	Hon			
	D590989	04/2009	Hon			
	D590988	04/2009	Hon			
	D590991	04/2009	Hon			
	7581540	9/2009	Hale et al.			
	D613904	04/2010	Wu			
	D613903	04/2010	Wu			
	7726320	06/2010	Robinson et al.			
	7832410	11/2010	Hon			
	7832655	11/2010	Tollens et al.			
	7984684	7/2011	Hinderks			
	8156944	04/2012	Han			
	8603397	12/2013	Gruenbacher et al.			
	8689805	4/2014	Hon			
	8794231	8/2014	Thorens et al.			
	8863753	10/2014	Li et al.			

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S.C/

NJOY Exhibit 2029.241
Juul v. NJOY
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INFORMATION DISCLOSURE STATEMENT

Application Number: (Cont. of 15/377,522)

	8897628	11/2014	Conley et al.			
	8961492	2/2015	Imran et al.			
	8997753	4/2015	Li et al.			
	8997754	4/2015	Tucker et al.			
	9004073	4/2015	Tucker et al.			
	9095175	8/2015	Terry et al.			
	9148009	9/2015	Xiang			
	9197726	11/2015	Stanimirovic et al.			
	9204670	12/2015	Liu			
	9259035	2/2016	Terry et al.			
	D749505	2/2016	Verleur et al.			
	D750320	2/2016	Verleur et al.			
	D752278	3/2016	Verleur et al.			
	D752280	3/2016	Verleur et al.			
	D752727	3/2016	Tracey			
	9301548	4/2016	Liu			
	9301549	4/2016	Liu			
	9332787	5/2016	Liu			
	9352288	5/2016	Terry et al.			
	9364024	6/2016	Liu			
	9364025	6/2016	Liu			
	D763502	8/2016	Verleur et al.			
	9417107	8/2016	Xiang			
	9427711	8/2016	Terry et al.			
	D767820	9/2016	Jordan et al.			
	D767822	9/2016	Jordan et al.			
	9486014	11/2016	Liu			
	D776869	1/2017	Heidl			
	9532597	1/2017	Tucker et al.			
	9532604	1/2017	Conley et al.			
	9555203	1/2017	Terry et al.			
	D779725	2/2017	Bramley et al.			
	D780993	3/2017	Bramley et al.			
	D782108	3/2017	Jordan et al.			
	9597466	3/2017	Henry, Jr. et al.			
	9602646	3/2017	Stanimirovic et al.			
	9609893	4/2017	Novak, III et al.			

INFORMATION DISCLOSURE STATEMENT

Application Number: (Cont. of 15/377,522)

U.S. PATENT PUBLICATION DOCUMENTS						
	20050016550	01/2005	Katase			
	20060196518	09/2006	Hon			
	20070267031	11/2007	Hon			
	20080073443	03/2008	Tollens et al.			
	20080092912	04/2008	Robinson et al.			
	20080230052	09/2008	Montaser			
	20080247892	10/2008	Kawasumi			
	20080257367	10/2008	Paterno et al.			
	20080276947	11/2008	Martzel			
	20080303286	12/2008	Vangel			
	20090095311	04/2009	Han			
	20090126745	05/2009	Hon			
	20090272379	11/2009	Thorens et al.			
	20100031968	02/2010	Sheikh et al.			
	20100037903	02/2010	Coleman III, et al.			
	20100200006	08/2010	Robinson et al.			
	20100200008	08/2010	Taieb			
	20100242974	09/2010	Pan			
	20110011396	01/2011	Fang			
	20110192399	08/2011	Wilke et al.			
	20110277757	11/2011	Terry et al.			
	20110277760	11/2011	Terry et al.			
	20110304282	12/2011	Li et al.			
	20120285475	11/2012	Liu			
	20130309102	11/2013	Gruenbacher et al.			
	20130312739	11/2013	Rome et al.			
	20140020696	1/2014	Liu			
	20140060528	3/2014	Liu			
	20140069444	3/2014	Cyphert et al.			
	20140096781	4/2014	Sears et al.			
	20140096782	4/2014	Ampolini et al.			
	20140150783	6/2014	Liu			
	20140150784	6/2014	Liu			
	20140190478	7/2014	Liu			
	20140190502	7/2014	Liu			
	20140253144	9/2014	Novak, III et al.			
	20140261495	9/2014	Novak, III et al.			
	20140305450	10/2014	Xiang			
	20150065929	3/2015	Walker			
	20150078735	3/2015	Cormack			

INFORMATION DISCLOSURE STATEMENT

Application Number: (Cont. of 15/377,522)

	20150090281	4/2015	Chen			
	20150128966	5/2015	Lord			
	20150189916	7/2015	Wu			
	20150215439	7/2015	Stanimirovic et al.			
	20150258289	9/2015	Henry, Jr. et al.			
	20150296885	10/2015	Liu			
	20160374392	12/2016	Liu			
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	CN200966824	10/2007	CN			Yes
	CN201018927	02/2008	CN			Yes
	CN201085044	07/2008	CN			Yes
	201238610	5/2009	CN			Abstract Only
	CN201379072	1/2010	CN			Abstract Only
	20090033311	4/2009	KR			Abstract Only
	WO2000/028843	5/2000	WIPO			Yes
	WO2007131450	11/2007	WIPO			Abstract Only
	WO2005099494	10/2005	WIPO			Abstract Only
	WO2007/131449	11/2007	WIPO			Yes
	WO2007/078273	7/2007	WIPO			N/A
	WO2010/091593	8/2010	WIPO			Abstract Only
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Wikipedia; Electronic cigarette – Wikipedia, the free encyclopedia; Feb. 9, 2010; http://web.archive.org/web/20100209122659/http://en.wikipedia.org/wiki/Electronic_cigarette					
	Complaint for Patent Infringement with exhibits as filed 06MAR2019; United States District Court for the Middle District of North Carolina; Civil Action No. 1:19-cv-00260.					
	Defendant R.J. Reynolds Vapor Company's Answer, Affirmative Defenses and Counterclaim to Complaint for Patent Infringement with exhibits as filed 29APR2019; United States District Court for the Middle District of North Carolina; Civil Action No. 1:19-cv-00260.					
	Crown 7 HYDRO device; https://www.youtube.com/watch?v=tQNFFw8A_DI (YouTube video published on 10DEC2008).					
	NJOY NPRO device; https://www.youtube.com/watch?v=TBdX24ALpLY (YouTube video published on 5DEC2008).					
	Smoke 51 Devices as disclosed on page 53 and listed on page 54 of the 29APR2019 Defendant's Answer in Civil Action No. 1:19-cv-00260.					
EXAMINER	/THOR S CAMPBELL/		DATE CONSIDERED			
EXAMINER: Initial if citation 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 the applicant.						

OMB 0651-0031

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
<i>(Use several sheets if necessary)</i> Sheet 1 of 3			Filing Date June 25, 2019		Group Art Unit 3761	Examiner T.S. Campbell
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1,968,509	7/1934	Tiffany			
	6,155,268	12/2000	Takeuchi			
	6,598,607	7/2003	Adiga			
U.S. PATENT PUBLICATION DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	EP0845220	3/2003	EP			
	CN2719043	8/2005	CN			
	CN101366554	2/2009	CN			
	WO2004/095955	11/2004	WIPO			
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Fuma International, LLC's Rule 26(f) Report filed on May 28, 2019, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-6600260.					
	Exhibit A to Plaintiff Fuma International LLC's Rule 26(f) Report filed May 28, 2019, Proposed Schedule.					
	Exhibit B to Plaintiff Fuma International LLC's Rule 26(f) Report filed May 28, 2019, Proposed E-Discovery Order.					
	Exhibit C to Plaintiff Fuma International LLC's Rule 26(f) Report filed May 28, 2019, Proposed Protective Order.					
	Exhibit D to Plaintiff Fuma International LLC's Rule 26(f) Report filed May 28, 2019, Proposed Supplemental Protective Order.					
	Defendant R.J. Reynolds Vapor Company's Notice Pursuant to 25 U.S.C. § 282 dated October 15, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660, with Publications.					
	Electronic cigarette - Wikipedia archival copy, dated February 9, 2010 from https://web.archive.org/ .					
	Joining of Materials and Structures, From Pragmatic Process to Enabling Technology, Robert W. Messler, Jr., 2004 (Exerpt).					
	Smoke Anywhere USA, Inc. to Introduce Its Electronic Cigarette Fifty-One with Comments, August 16, 2008.					

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S.C/

NJOY Exhibit 2029.245
Juul v. NJOY
IPR2024-00161

INFORMATION DISCLOSURE STATEMENT

Application Number: 16/451,483

	NEW Electronic Cigarette- Cool 3D! by Smoke51.com with Comments, October 31, 2008.
	Smoke51.com Website Excerpts.
	Smoke 51 User Manual.
	Trans-Power Website Excerpts.
	E-Cig Forum Website (Smoke51).
	Leaford's YouTube Channel, E-8 84mm Disposable Cartomizer E-Cigarette, Leaford's Vacation Special Part 2: The Sensation Micro (E8) From E-Smoke.net, https://www.youtube.com/watch?v=UTBfApJs1c , June 15, 2009.
	Rustylug's YouTube Channel with Comments, September 10, 2008.
	Smoke51Ohio's Smoke 51 Duo Presentation.
	Smoke51Ohio's Smoke 51 Duo Marketing Piece.
	Smoke51Ohio's Press Release Announcing Fifty-One Product.
	Compare Fifty-One to Other Electronic Cigarettes.
	Plaintiff Fuma International LLC's Trial Brief dated October 25, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.
	Exhibit 1 to Plaintiff Fuma International LLC's Trial Brief dated October 25, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.
	Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.
	Exhibit A to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Gregory D. Conley Deposition Transcript Excerpts.
	Exhibit B to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Shanhong Wang Compressed Deposition Transcript.
	Exhibit C to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Shanhong Wang Deposition Exhibit 5.
	Exhibit D to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Publication No. CN101366554 Application in English and Chinese.
	Exhibit E to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Publication No. CN201085044 to Fang Xiaolin in English.
	Exhibit F to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, U.S. Patent Publication No. 2009/0095311 to Li Han.
	Exhibit G to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, U.S. Patent No. 4,947,874 to Brooks et al.
	Exhibit H to Defendant R.J. Reynolds Vapor Company's Trial Brief dated October 25, 2021, Prosecution History of U.S. Application Serial No. 12/843,917.
	Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.
	Exhibit 1 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 2 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 3 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 4 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 5 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 6 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 7 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 8 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 9 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 10 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
	Exhibit 11 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.

Receipt date: 02/15/2022

16/451,483 - GAU: 3761

INFORMATION DISCLOSURE STATEMENT

Application Number: 16/451,483

	Exhibit 12 to Zoom Videotaped Deposition Transcript (Revised) of Shanhong Wang of September 24, 2021.
EXAMINER	/THOR S CAMPBELL/ (03/09/2022) DATE CONSIDERED
EXAMINER: Initial if citation 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 the applicant.	

PATENT
Attorney Docket No. 269.0003-03
Customer No. 22882

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3600
Filed: June 25, 2019	)	
For: ELECTRONIC VAPORIZER	)	

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

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed non-U.S. patent documents are attached. Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Applicant brings to the attention of the Examiner the existence of the litigation proceeding, i.e., Civil Action No. 19-260 in the U.S. District Court for the Middle District of North Carolina between Plaintiff Fuma International LLC (Fuma) and Defendant R.J. Reynolds Vapor Company (RJR), asserting infringement of U.S. Patent Nos. 9,532,604 and 10,334,881. The '604 patent issued from application serial no. 14/510,955, which is the parent of application serial no. 15/377,522 (now the '881 patent), which is the parent of the current pending above-identified application.

In addition to the other documents being submitted herewith, Fuma is submitting the expert reports in the above-discussed litigation between Fuma and RJR that address the validity of the asserted claims in the '604 and '881 patents. The Rebuttal report by Fuma's expert, Dr. Vallee, is submitted in its entirety, and RJR has confirmed

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S.C/

NJOY Exhibit 2029.248
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that they do not assert confidentiality on any of the material in Dr. Vallee's report. The Opening report by RJR's expert, Dr. Collins, has been redacted to remove specific materials that RJR informed Fuma it still considered confidential and that RJR requested be removed from copies of this report when submitting this IDS. The Reply report by RJR's expert, Dr. Collins, has not been redacted.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: February 19, 2021

By: /Thomas H. Martin/
Thomas H. Martin
Registration No. 34,383

1557 Lake O'Pines Street, NE
Hartville, Ohio 44632
Telephone: (330) 877-0700

/THOR S CAMPBELL/ (03/09/2022)

OMB 0651-0031

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
<i>(Use several sheets if necessary)</i> Sheet 1 of 4			Filing Date June 25, 2019		Art Unit 3600	Examiner
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U.S. PUBLICATION DOCUMENTS						
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Defendant R.J. Reynolds Vapor Company's Invalidity Expert Report of Dr. John M. Collins dated July 23, 2020 (REDACTED), U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit A to Defendant R.J. Reynolds Vapor Company's Invalidity Expert Report of Dr. John M. Collins dated July 23, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit B to Defendant R.J. Reynolds Vapor Company's Invalidity Expert Report of Dr. John M. Collins dated July 23, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Plaintiff Fuma International LLC's Rebuttal Expert Report of Glenn Vallee, Ph.D. Regarding Validity of the '604 and '881 Patents dated August 21, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit A to Plaintiff Fuma International LLC's Rebuttal Expert Report of Glenn Vallee, Ph.D. Regarding Validity of the '604 and '881 Patents dated August 21, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Defendant R.J. Reynolds Vapor Company's Reply Expert Report of Dr. John M. Collins dated September 4, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit A to Defendant R.J. Reynolds Vapor Company's Reply Expert Report of Dr. John M. Collins dated September 4, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Exhibit B to Defendant R.J. Reynolds Vapor Company's Reply Expert Report of Dr. John M. Collins dated September 4, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Plaintiff Fuma International LLC's Motion for Summary Judgment of Infringement dated October 20, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.					
	Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment of: (I) Infringement of the '881 Patent by Defendant's Vuse Solo and Vuse Ciro Products, and (II) Infringement of the '604 Patent by Defendant's Vuse Ciro Product dated October 20, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.					
	Exhibit A to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Responsive Expert Report of Dr. John M. Collins (Redacted).					

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S.C/

NJOY Exhibit 2029.250
Juul v. NJOY
IPR2024-00161

INFORMATION DISCLOSURE STATEMENT

Application Number: 16/451,483

	Exhibit A (John Collins CV) of Exhibit A to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Responsive Expert Report of Dr. John M. Collins.
	Exhibit B (Material Considered List) of Exhibit A to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Responsive Expert Report of Dr. John M. Collins.
	Exhibit B to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Solo G2 Final Infringement Contentions Claim Chart for U.S. Patent No. 10,334,881.
	Exhibit C to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Solo G1 Final Infringement Contentions Claim Chart for U.S. Patent No. 10,334,881.
	Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit A (Glenn Vallee CV and Testimony History) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit B (Documents Considered) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit C (Declaration under 37 C.F.R. § 1.131 in U.S. Serial No. 15/377,522) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit D (Vuse Solo G1 Infringement Claim Chart for U.S. Patent No. 9,532,604 for Fuma Expert Report on Infringement) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit E (Vuse Solo G2 Infringement Claim Chart for U.S. Patent No. 9,532,604 for Fuma Expert Report on Infringement) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit J (Fuma's Embodying Products) of Exhibit D to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement.
	Exhibit E to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Solo G1 Infringement Claim Chart for U.S. Patent No. 10,334,881 for Fuma Expert Report on Infringement.
	Exhibit F to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Solo G2 Infringement Claim Chart for U.S. Patent No. 10,334,881 for Fuma Expert Report on Infringement.
	Exhibit G to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement in Reply to August 21, 2020 Rebuttal Report of Dr. Collins (Redacted).
	Exhibit A ("Shigley's Mechanical Engineering Design" Excerpt) of Exhibit G to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement in Reply to August 21, 2020 Rebuttal Report of Dr. Collins.
	Exhibit B (Hibbeler, "Engineering Mechanics, Statics and Dynamics" Excerpt) of Exhibit G to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement in Reply to August 21, 2020 Rebuttal Report of Dr. Collins.
	Exhibit H to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Ciro Final Infringement Contentions Claim Chart for U.S. Patent No. 9,532,604.

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	Exhibit I to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Ciro Final Infringement Contentions Claim Chart for U.S. Patent No. 10,334,881.
	Exhibit J to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Ciro Claim Chart for U.S. Patent No. 9,532,604 for Fuma Expert Report on Infringement (Redacted).
	Exhibit K to Plaintiff Fuma International LLC's Memorandum of Law in Support of Plaintiff's Motion for Summary Judgment dated October 20, 2020, Vuse Ciro Claim Chart for U.S. Patent No. 10,334,881 for Fuma Expert Report on Infringement (Redacted).
	Defendant R.J. Reynolds Vapor Company's Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Defendant R.J. Reynolds Vapor Company's [Proposed] Order Granting R.J. Reynolds Vapor Company's Motion for Summary Judgment of Noninfringement, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Exhibit 1 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Vuse Solo PMTA Letter, Sec. H Excerpts.
	Exhibit 2 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Vuse Ciro PMTA Letter, Sec. H Excerpts.
	Exhibit 3 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement in Reply to August 21, 2020 Rebuttal Report of Dr. Collins with Exhibit A Excerpts.
	Exhibit 4 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Expert Report of Glenn Vallee, Ph.D. on Infringement with Exhibits E, F, H, I, Excerpts (Redacted).
	Exhibit 5 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. Application No. 12/843,917 Certified Application File History Excerpts.
	Exhibit 6 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. Application No. 14/510,995 (U.S. Patent No. 9,532,604) Certified Application File History Excerpts.
	Exhibit 7 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, U.S. Application No. 15/337,522 (U.S. Patent No. 10,334,881) Certified Application File History Excerpts.
	Exhibit 8 to Defendant R.J. Reynolds Vapor Company's Memorandum in Support of Its Motion for Summary Judgment of Non-Infringement dated October 20, 2020, Responsive Expert Report of Dr. John M. Collins with Exhibits A and B.
	Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Exhibit L to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Vuse Solo G2 Final Infringement Contentions Claim Chart for U.S. Patent No. 9,532,604.
	Exhibit M to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Vuse Solo G1 Final Infringement Contentions Claim Chart for U.S. Patent No. 9,532,604.

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	Exhibit N to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Vuse Solo G1 Claim Chart for Expert Report of Glenn Vallee, Ph.D. on Infringement of U.S. Patent No. 9,532,604.
	Exhibit O to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Vuse Solo G2 Claim Chart for Expert Report of Glenn Vallee, Ph.D. on Infringement of U.S. Patent No. 9,532,604.
	Various Screenshots of Exhibit P to Plaintiff Fuma International LLC's Opposition to Defendant's Motion for Summary Judge of Non-Infringement dated November 11, 2020, Fig. 2 of U.S. Patent No. 9,532,604 Animation.
	Defendant R.J. Reynolds Vapor Company's Opposition to Fuma's Motion for Summary Judgment of Literal Infringement dated November 11, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Plaintiff Fuma International LLC's Reply in Support of Its Motion for Summary Judgment of (I) Infringement of the '881 Patent by Defendant's Vuse Solo and Vuse Ciro Products, and (II) Infringement of the '604 Patent by Defendant's Vuse Ciro Product dated November 25, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260(lead case) and 19-cv-660.
	Exhibit 9 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, File History Receipt for U.S. Serial No. 12/843,917.
	Exhibit 10 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, Defendant/Counterplaintiff R.J. Reynolds Vapor Company's Fourth Supplemental Objections and Responses to Plaintiff's Second Set of Interrogatories (Nos. 6-13) (Redacted).
	Exhibit 11 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, Excerpts of Deposition Of Nicholas Gilley.
	Exhibit 12 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, Vuse Advertising Samples.
	Exhibit 13 to Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Summary Judgment of Non-Infringement dated November 25, 2020, U.S. Patent No. 9,609,893.
EXAMINER	/THOR S CAMPBELL/ DATE CONSIDERED 103709/2022
EXAMINER: Initial if citation 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 the applicant.	

OMB 0651-0031

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
<i>(Use several sheets if necessary)</i> Sheet <u>1</u> of <u>7</u>			Filing Date June 25, 2019		Art Unit 3761	Examiner I. Abraham
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
**	4,284,089	8/1981	Ray			
**	5,249,586	10/1993	Morgan et al.			
*	8,910,639	12/2014	Chang et al.			
U.S. PUBLICATION DOCUMENTS						
**	2009/0272379	11/2009	Thorens			
*	2014/0060554	3/2014	Collett et al.			
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Defendant R.J. Reynolds Vapor Company's Preliminary Invalidity Contentions as filed 26SEP2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit A, Claim Chart of U.S. Patent No. 9,532,604 with CN101366554A to Wang.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit B, Claim Chart of U.S. Patent No. 10,334,881 with CN101366554A to Wang.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit C, Claim Chart of U.S. Patent No. 9,532,604 with CN201379072Y to Han.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit D, Claim Chart of U.S. Patent No. 10,334,881 with CN201379072Y to Han.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit E, Claim Chart of U.S. Patent No. 9,532,604 with US2009/0126745 to Hon.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit F, Claim Chart of U.S. Patent No. 10,334,881 with US2009/0126745 to Hon.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit G, Claim Chart of U.S. Patent No. 9,532,604 with CN201085044Y to Fang.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit H, Claim Chart of U.S. Patent No. 10,334,881 with CN201085044Y to Fang.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit I, Claim Chart of U.S. Patent No. 9,532,604 with Fifty-One.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit J, Claim Chart of U.S. Patent No. 10,334,881 with Fifty-One.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit K, Claim Chart of U.S. Patent No. 9,532,604 with KR808D.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit L, Claim Chart of U.S. Patent No. 10,334,881 with KR808D.					
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit M, Claim Chart of U.S. Patent No. 9,532,604 with US2009/0095311 to Han.					

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S.C/

NJOY Exhibit 2029.254
Juul v. NJOY
IPR2024-00161

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	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit N, Claim Chart of U.S. Patent No. 10,334,881 with US2009/0095311 to Han.
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit O, Claim Chart of U.S. Patent No. 9,532,604 with US 4,947,874 to Brooks et al.
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit P, Claim Chart of U.S. Patent No. 10,334,881 with US 4,947,874 to Brooks et al.
	Defendant's 26SEP2019 Preliminary Invalidity Contentions Exhibit Q, Claim Chart of U.S. Patent No. 9,532,604 with US2009/0272379 to Thorens.
	Defendant R.J. Reynolds Vapor Company's Amended and Consolidated Affirmative Defenses and Amended and Consolidated Counterclaims to Complaints for Patent Infringement as filed 10OCT2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 53.
	Plaintiff Fuma International LLC's Responses to Defendant R.J. Reynolds Vapor Company's Amended and Consolidated Counterclaims to Complaints for Patent Infringement; Demand for Jury Trial; as filed 24OCT2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 55.
	R.J. Reynolds Vapor Company's Motion for Summary Judgment of Patent Unenforceability as filed 20DEC2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document; Document 73.
	Plaintiff Fuma International LLC's Motion for Summary Judgment on Defendant R.J. Reynolds Vapor Company's Inequitable Conduct Counterclaims as filed 20DEC2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 74.
	Plaintiff Fuma International LLC's Memorandum of Law in Support of Motion for Summary Judgment on Defendant R.J. Reynolds Vapor Company's Inequitable Conduct Counterclaims as filed 20DEC2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 75; with Exhibits (listed separately).
	Plaintiff's 20DEC2019 Memorandum Ex. 1, Examiner Search Notes at FUMA00000489, -546, -610
	Plaintiff's 20DEC2019 Memorandum Ex. 2, Comparison of Norton and Campbell Office Actions.
	Plaintiff's 20DEC2019 Memorandum Ex. 3, Chart depicting the sequence and relationship of the various applications in the subject patent family.
	Plaintiff's 20DEC2019 Memorandum Ex. 4, RJRV-F000045828 (noting entries of 11/01/2016 and 11/03/2016).
	Plaintiff's 20DEC2019 Memorandum Ex. 5, Fuma Supplemental Response to Interrogatory 12, p. 10.
	Plaintiff's 20DEC2019 Memorandum Ex. 6, December 4, 2019 Deposition Transcript of G. Conley.
	Plaintiff's 20DEC2019 Memorandum Ex. 7, December 9, 2019 Deposition Transcript of M. Medley.
	Plaintiff's 20DEC2019 Memorandum Ex. 8, May 29, 2014 Email from Conley to Jocke (FUMA00082651-53 at - 52).
	Plaintiff's 20DEC2019 Memorandum Ex. 9, Wikipedia Article at FUMA00000504 (describing "Heating Element ('atomizer)').
	Plaintiff's 20DEC2019 Memorandum Ex. 10, Fuma's Response to Interrogatory 15 at p. 5-6.
	Plaintiff's 20DEC2019 Memorandum Ex. 11, July 31, 2009 Sketches (FUMA00007752).
	Plaintiff's 20DEC2019 Memorandum Ex. 12, Deposition Exhibit No. DX-2A, Production No. FUMA00007750 (showing "Batting" annotation from Conley deposition).
	Plaintiff's 20DEC2019 Memorandum Ex. 13, RJRV-F000154458-72 at -71, -64, "Horizon 3 Vapor, The Open Innovation Solution"; Id. at - RJRV-F000154460 ("Open Innovation (Proudly Found Elsewhere)").
	Plaintiff's 20DEC2019 Memorandum Ex. 14, June 29, 2010 Email from Dennis Potter (RJRV-F000685773).
	Plaintiff's 20DEC2019 Memorandum Ex. 15, Sept. 19, 2019 Declaration of Wang Shanhong ("Wang Declaration").
	Plaintiff's 20DEC2019 Memorandum Ex. 16, July 22, 2010 D. Potter Email (RJRV-F000687003).

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	Defendant's Memorandum in Support of Motion for Summary Judgment of Patent Unenforceability as filed 20DEC2019; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660; Document 76; with Exhibits (listed separately).
	Defendant's 20DEC2019 Memorandum Ex. 1, Updated 9,532,604 Patent Family Tree.
	Defendant's 20DEC2019 Memorandum Ex. 2, Deposition Exhibit No. DX 3; Production No. FUMA00000019-37; 9,532,604 Patent issued 03JAN2017 to Conley et al. (Certified on 08FEB2019).
	Defendant's 20DEC2019 Memorandum Ex. 3, Production No. FUMA00083194-12; 10,334,881 Patent issued 2JUL2019 to Coney et al.
	Defendant's 20DEC2019 Memorandum Ex. 4, Deposition Exhibit No. DX 19; Production No. FUMA00000338-55; 8,897,628 Patent issued 25NOV2014 to Coney et al. (Certified on 08FEB2019).
	Defendant's 20DEC2019 Memorandum Ex. 5, FUMA0000302-36 12/843,917 Application filed on 27JUL2010 to Conley et al. (Certified on 07FEB2019).
	Defendant's 20DEC2019 Memorandum Ex. 6, Fuma's Second Supplemental Response to Third Set of Interrogatories dated 12DEC2019, Interrogatory 12.
	Defendant's 20DEC2019 Memorandum Ex. 7, Excerpts from G. Conley Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 8, Excerpts from D. Hillenbrandt Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 9, Excerpts from R. Conley Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 10, Excerpts from M. Medley Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 11, Excerpts from R. Jocke Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 12, Excerpts from T. Martin Deposition Transcript.
	Defendant's 20DEC2019 Memorandum Ex. 13, Deposition Exhibit No. DX 24; Production No. FUMA00012195; Press release announcing Fifty-One product.
	Defendant's 20DEC2019 Memorandum Ex. 14, Deposition Exhibit No. DX 25; Production No. FUMA00010920; Advertising of Fifty-One product.
	Defendant's 20DEC2019 Memorandum Ex. 15, Deposition Exhibit No. DX 1; Production No. FUMA00012107-16; PowerPoint advertising of Fifty-One product.
	Defendant's 20DEC2019 Memorandum Ex. 16, Production No. FUMA00000477-87; 7/16/2013 Office Action and Examiner's IDS.
**	Defendant's 20DEC2019 Memorandum Ex. 17, Production No. RJRV-F000061285-92; US Publication No. 2009/0272379A1 issued 05NOV2009 to Thorens.
**	Defendant's 20DEC2019 Memorandum Ex. 18, Production No. RJRV-F000061357-67; US Patent No. 4,284,089 issued 18AUG1981 to Ray.
	Defendant's 20DEC2019 Memorandum Ex. 19, Production No. FUMA00000510-31; 16OCT2013 Amendment and Response from '917 prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 20, Production No. FUMA00000532-41; 04DEC2013 Office Action.
	Defendant's 20DEC2019 Memorandum Ex. 21, Production No. FUMA00000549-65; 2/3/2014 Amendment and Response to 12/4/2013 Office Action.
	Defendant's 20DEC2019 Memorandum Ex. 22, Production No. FUMA00000567-79; 19FEB2014 Advisory Action rejecting proposed amendments.
	Defendant's 20DEC2019 Memorandum Ex. 23, Production No. FUMA00082796-810; 28MAR2014 Correspondence.
	Defendant's 20DEC2019 Memorandum Ex. 24, Deposition Exhibit No. DX 29; 03OCT14 letter from Jocke to named inventors (Ohio State Court Exhibit FF).
	Defendant's 20DEC2019 Memorandum Ex. 25, Production No. FUMA00082593-606; 25JUN2014 email (Deposition Exhibit No. DX 38) and draft response.
	Defendant's 20DEC2019 Memorandum Ex. 26, Deposition Exhibit No. DX 39; Production No. FUMA00082681-82; 31JUL2014 Jocke letter to G. Conley and D. Hillenbrandt.
	Defendant's 20DEC2019 Memorandum Ex. 27, Production No. FUMA00000038-90; '955 Application and Application Data Sheet from '604 patent prosecution.

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	Defendant's 20DEC2019 Memorandum Ex. 28, Production Nos. FUMA00000091-102 and FUMA00000128-39; IDS's in '604 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 29, Production No. FUMA00000118-27; 15JAN2016 Office Action in '604 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 30, Production No. FUMA00082530-31; 25JAN2016 Letter from Jocke to Conley et al. providing 15JAN2016 Office Action.
	Defendant's 20DEC2019 Memorandum Ex. 31, Production No. FUMA00017414; 30JUN2016 Letter from Jocke to Conley et al. providing draft Response to 15JAN2016 Office Action.
	Defendant's 20DEC2019 Memorandum Ex. 32, Deposition Exhibit No. DX 36; Production No. FUMA00063611-72; 522 Application and Application Data Sheet from '881 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 33, Production No. FUMA00063679-80; Transmittal of Power of Attorney for Thomas Martin, signed by Conley on 05-31-2018 during '881 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 34, Deposition Exhibit No. DX 43; Production No. FUMA00064785-86; IDS Narrative accompanying IDS filed on 05-01-2019 in '881 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 35, Production No. FUMA00083076-78; 07-29-2010 Invoice from Walker & Jocke to Conley confirming disclosure meeting Case.
	Defendant's 20DEC2019 Memorandum Ex. 36, Deposition Exhibit No. DX 14; Production No. FUMA00082529; Partial transcription of July 2010 inventor disclosure meeting between Conley and Medley.
	Defendant's 20DEC2019 Memorandum Ex. 37, Deposition Exhibit No. DX 15; Production No. FUMA00081603-04; 07-20-2010 and 07-27-2010 Emails from Medley to GC FUMA, cc Medley.
	Defendant's 20DEC2019 Memorandum Ex. 38, Production No. FUMA00081651; 15OCT2013 Email from Conley to Jocke.
	Defendant's 20DEC2019 Memorandum Ex. 39, Production Nos. FUMA00006121-25, FUMA00006348, FUMA00006353-54, FUMA00006399, FUMA00006410, FUMA00006415, FUMA00006468-69, FUMA00006471-72, FUMA00006480-81, FUMA00006500-04; Excerpts from Conley's Ohio May 2016 testimony.
	Defendant's 20DEC2019 Memorandum Ex. 40, Production No. RJRV-F000044730-37; Exhibit U referenced in Conley's Ohio May 2016 testimony.
	Defendant's 20DEC2019 Memorandum Ex. 41, Production No. RJRV-F000044941-45082; Excerpts from Campbell's Ohio June 2016 transcript.
	Defendant's 20DEC2019 Memorandum Ex. 42, Production No. FUMA00081032-81041; Campbell Declaration.
	Defendant's 20DEC2019 Memorandum Ex. 43, Deposition Exhibit No. DX 34; Production No. FUMA00082521-28; 09-07-2016 Letter from Jocke to Conley et al. regarding filing of declarations.
	Defendant's 20DEC2019 Memorandum Ex. 44, Deposition Exhibit No. DX 22; Production No. FUMA00077839-44; November 2016 Email String.
	Defendant's 20DEC2019 Memorandum Ex. 45, Deposition Exhibit No. DX 21; Production No. FUMA00000228-34; Inventor Declarations filed on 11-15-2016 in 604 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 46, Deposition Exhibit No. DX 16; Production No. FUMA00000503-09; File history copy of Wikipedia article on "Electronic cigarette".
	Defendant's 20DEC2019 Memorandum Ex. 47, Production Nos. RJRV-F000062080-130; RJRV000062132-38; Wang Declaration (Chinese) and exhibits, and English translation of Wang Declaration.
	Defendant's 20DEC2019 Memorandum Ex. 48, Production No. RJRV-F000694624-33; Top Down View of Cartridges 1-3.
	Defendant's 20DEC2019 Memorandum Ex. 49, Production No. FUMA00082588; 07-10-2013 Letter from Parmelee to Conley regarding prosecution of '813 Application ('628 patent).
	Defendant's 20DEC2019 Memorandum Ex. 50, Production Nos. FUMA00000419-22; FUMA00000469-74; FUMA00000486-87; FUMA00000542; FUMA00000608; IDS's in the '917 Application prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 51, Production Nos. FUMA00000714-19; FUMA00000739; FUMA00000742-45; FUMA00000761-65; FUMA00000788-92; IDS's in the '628 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 52, Production Nos. FUMA00063914-19; FUMA00064051-54; FUMA00064093; Original IDS and First Supplemental IDS filed in '881 patent prosecution.
	Defendant's 20DEC2019 Memorandum Ex. 53, Deposition Exhibit No. DX2A; Production No. FUMA00007750-MODIFIED; Sketch of Fifty-One Duo with location of batting material identified by Conley.
	Defendant's 20DEC2019 Memorandum Ex. 54, Declaration of John Collins with Exhibits A-J.

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	Opening Claim Construction Brief of Defendant R.J. Reynolds Vapor Company as filed 13JAN2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 82; with Exhibits (listed separately).
	Defendant's 13JAN2020 Brief Ex. 1, Email Chain between Dirk Thomas and Laura Beth Miller regarding the parties' preliminary claim constructions, from October 29, 2019 to November 1, 2019.
	Defendant's 13JAN2020 Brief Ex. 2, Production No. RJRVF900000037-42; Shorter Oxford English Dictionary (6th Edition), Excerpt for "couple," "fasten," and "link".
	Defendant's 13JAN2020 Brief Ex. 3, Production No. RJRVF900000043-48; Merriam-Webster's Collegiate Dictionary (10 th Edition), Excerpt for "couple," "fasten," and "link".
	Defendant's 13JAN2020 Brief Ex. 4, Production No. FUMA00000581-92; Certified File History for U.S. Application No. 12/843,917: March 28, 2014 Amendment Filed with a Request for Continued Examination (RCE) and Remarks.
	Defendant's 13JAN2020 Brief Ex. 5, Production No. RJRVF000044605-06; Email Chain between Ralph Jocke and Greg Conley regarding Patent Application Response, dated January 31, 2014 and February 3, 2014.
	Defendant's 13JAN2020 Brief Ex. 6, Production No. FUMA00000151-75; Certified File History for U.S. App. No. 14/510,955 (excerpts), including: July 11, 2016 Amendments and Response.
	Defendant's 13JAN2020 Brief Ex. 7, Production No. RJRVF000044766-67; October 11, 2013 Email from Ralph Jocke to Greg Conley regarding Draft of Response to Office Action for '917 Application.
	Defendant's 13JAN2020 Brief Ex. 8, Production No. RJRVF000044768; October 15, 2013 Email from Greg Conley to Ralph Jocke regarding Draft Response to Office Action for '917 Application.
	Defendant's 13JAN2020 Brief Ex. 9, Production No. FUMA00000599-607; Certified File History for U.S. Application No. 12/843,917: May 6, 2014 Non-Final Rejection.
	Defendant's 13JAN2020 Brief Ex. 10, Deposition Exhibit No. 33; Production No. FUMA00082651-52; Email Chain between Greg Conley and Ralph Jocke regarding the '813 and '917 Applications, dated May 29, 2014 and June 4, 2014.
	Defendant's 13JAN2020 Brief Ex. 11, Excerpts from Ralph Jocke Deposition Transcript.
	Plaintiff Fuma International LLC's Opening Claim Construction Brief as filed 13JAN2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 83; with Exhibit (listed separately)
	Plaintiff's 13JAN2020 Brief Ex. A, (showing independent claims with highlighted terms RJR has proposed for construction).
	Reynolds's Memorandum in Opposition to Plaintiff's Motion for Summary Judgment as filed 21JAN2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 84; with Exhibits (listed separately).
	Defendant's 21JAN2020 Memorandum Ex. 1, Production No. FUMA00006410, FUMA00006487-88; Excerpt from Transcript of Proceedings, Steiger v. Conley, No. 14CIV-0386 (State of Ohio, Medina County Common Pleas Court, May 16, 2016).
	Defendant's 21JAN2020 Memorandum Ex. 2, Excerpt from D. Hillenbrandt Deposition Transcript.
	Defendant's 21JAN2020 Memorandum Ex. 3, School that Awarded MBA to Cat Sued, NBCNEWS.COM, http://www.nbcnews.com/id/6664906/ns/us_news-crime_and_courts/t/school-awarded-mba-cat-sued/#.XiCJ4MhKiUk (last updated Dec. 7, 2004).
	Defendant's 21JAN2020 Memorandum Ex. 4, Declaration of Atif Yardimici, dated January 21, 2020.
	Defendant's 21JAN2020 Memorandum Ex. 5, Second Declaration of John Collins, dated January 21, 2020.
	Defendant's 21JAN2020 Memorandum Ex. 6, Production No. FUMA00004119-127; Fuma International LLC's Marketing Material.
	Defendant's 21JAN2020 Memorandum Ex. 7, "Slideshow" View Excerpts of Horizon 3 Vapor PowerPoint.
	Plaintiff Fuma International LLC's Memorandum in Opposition to Defendant's Motion for Summary Judgment of Patent Unenforceability as filed 21JAN2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 85; with Exhibits (listed separately).
	Plaintiff's 21JAN2020 Memorandum Ex. A, July 19, 2010 Email from D. Potter to G. Conley.
	Plaintiff's 21JAN2020 Memorandum Ex. B, January 17, 2020 Declaration of Dr. Glen Vallee.

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	Plaintiff's 21JAN2020 Memorandum Ex. C, Smoke Anywhere Assurance of Voluntary Compliance, State of Florida.
*	Plaintiff's 21JAN2020 Memorandum Ex. D, U.S. Patent No. 8,910,639 issued 16DEC2014 to Chang et al.
	Plaintiff's 21JAN2020 Memorandum Ex. E, January 9, 2011 ARD Test Memo - Blu (RJR-V-F000051001-14, Redacted).
	Plaintiff's 21JAN2020 Memorandum Ex. F, May 11, 2006 Memo (RJR-V-F000051785-90, Redacted).
	Plaintiff's 21JAN2020 Memorandum Ex. G, January 6, 2012 ARD Test Memo - Njoy (RJR-V-F000051791-800, Redacted).
	Plaintiff's 21JAN2020 Memorandum Ex. H, RJR Ruyan Photos (RJR-V-F000051919-976).
	Plaintiff's 21JAN2020 Memorandum Ex. I, January 6, 2012 ARD Test Memo - Finiti (RJR-V-F000052015-018, Redacted).
	Plaintiff's 21JAN2020 Memorandum Ex. J, September 14, 2006 Memo - Ruyan (RJR-V-F000053225, Redacted).
	Plaintiff's 21JAN2020 Memorandum Ex. K, January 24, 2012 ARD Test Memo - Bloog (RJR-V-F0000535930-38, Redacted).
	Plaintiff's 21JAN2020 Memorandum Ex. L, August 25, 2009 Meeting Minutes, Reynolds Innovations, Inc. (RJR-V-F000053359-62, Redacted).
*	Plaintiff's 21JAN2020 Memorandum Ex. M, U.S. Patent Publication No. 2014/0060554A1 published 06MAR2014 to Collett et al.
**	Plaintiff's 21JAN2020 Memorandum Ex. N, U.S. Patent No. 4,284,089 issued 18AUG1981 to Ray.
	Plaintiff's 21JAN2020 Memorandum Ex. O, Renewed Request for Correction of Inventorship (FUMA00063955.69).
	Plaintiff's 21JAN2020 Memorandum Ex. P, Excerpted December 6, 2019 Transcript of Rebecca Conely.
	Plaintiff's 21JAN2020 Memorandum Ex. Q, Excerpted December 11, 2019 Deposition Transcript of T. Martin.
	Responsive Claim Construction Brief of Defendant R.J. Reynolds Vapor Company as filed 05FEB2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 89; with Exhibits (listed separately).
	Defendant's 05FEB2020 Brief Ex. 1, Excerpts from Merriam-Webster's Collegiate Dictionary (10 th Edition, 1996).
	Defendant's 05FEB2020 Brief Ex. 2, Excerpt from Cambridge Dictionary of American English (2000).
	Plaintiff Fuma International LLC's Responsive Claim Construction Brief as filed 05FEB2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 90; with Exhibit (listed separately).
**	Plaintiff's 05FEB2020 Brief Ex. A, U.S. Patent No. 5,249,586 issued 5OCT1993 to Morgan et al.
	Order as issued 06MAR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 92.
	R.J. Reynolds Vapor Company's Motion to Reconsider Order (Dkt.92) Granting Motion for Summary Judgment as filed 20MAR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 93.
	Defendant R.J. Reynolds Vapor Company's Brief in Support of Its Motion for Reconsideration as filed 20MAR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 94.
	Claim Construction Order issued 23MAR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260 and 1:19-cv-660; Document 95.
	Defendant R.J. Reynolds Vapor Company's Final Invalidity Contentions with Exhibits as filed 24APR2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 19-cv-00260 and 19-cv-660.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 1, Claim Chart of U.S. Patent No. 9,532,604 with CN101366554A to Wang.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 2, Claim Chart of U.S. Patent No. 10,334,881 with CN101366554A to Wang.

INFORMATION DISCLOSURE STATEMENT

Application Number: 16/451,483

	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 3, Claim Chart of U.S. Patent No. 9,532,604 with CN201085044Y to Fang.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 4, Claim Chart of U.S. Patent No. 10,334,881 with CN201085044Y to Fang.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 5, Claim Chart of U.S. Patent No. 9,532,604 with Fifty-One.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 6, Claim Chart of U.S. Patent No. 10,334,881 with Fifty-One.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 7, Claim Chart of U.S. Patent No. 9,532,604 with US2009/0095311 to Han.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 8, Claim Chart of U.S. Patent No. 10,334,881 with US2009/0095311 to Han.
	Defendant's 24APR2020 Final Invalidity Contentions Exhibit 9, Claim Chart of U.S. Patent No. 9,532,604 with US2009/0272379 to Thorens et al.
	Order as issued 19MAY2020; United States District Court for the Middle District of North Carolina; Civil Action Nos. 1:19-cv-00260; Document 100.
EXAMINER	DATE CONSIDERED
/THOR S CAMPBELL/ (03/09/2022)	
EXAMINER: Initial if citation 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 the applicant.	

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S47	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/01/11 20:22
S49	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:22
S50	375	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:22
S53	6	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:22

S54	229	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:22
S55	3	"13594813"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S56	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S57	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S58	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S59	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S60	4,818	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S61	4,030	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S62	50	S60 and S61	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S63	1,430	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S64	3	electrical adj generator same breath	US-PGPUB; USPAT;	OR	OFF	2016/01/11 20:23

			EPO; JPO; DERWENT			
S65	16	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S66	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/01/11 20:23
S67	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/01/11 20:23
S68	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S69	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S70	375	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S71	140	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S72	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S73	6	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S74	229	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S75	1	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S76	6	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23

S77	30,819	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S78	30,819	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S79	1,500	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S80	207	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S81	1	("2013/0309102").URPN.	USPAT	OR	OFF	2016/01/11 20:23
S82	64,010	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S83	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S84	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S85	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S86	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S87	6,905	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23

S88	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S89	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S90	6,238	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S91	7,267	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S92	12,379	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S93	52	S92 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S94	8	S93 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S95	14	S93 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S96	48	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S97	6	S96 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23

S98	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/01/11 20:23
S99	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/01/11 20:23
S100	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S101	375	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S102	6	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S103	229	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S104	81	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/01/11 20:23
S105	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48

		"D590989" "D590990" "D590991" "D613903" "D613904").PN.				
S106	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S107	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S108	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S109	5,028	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S110	4,232	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S111	56	S109 and S110	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S112	1,491	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S113	3	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S114	16	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S115	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S116	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S117	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48

S118	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S119	427	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S120	146	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S121	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S122	7	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S123	319	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S124	1	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S125	7	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S126	32,023	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S127	32,023	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S128	1,605	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S129	225	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48

S130	2	("2013/0309102").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S131	67,756	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S132	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S133	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S134	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S135	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S136	7,163	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S137	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S138	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S139	6,419	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S140	8,665	(a24f47/00).IPCR.	US-PGPUB; USPAT;	OR	OFF	2016/07/25 10:48

			USOCR; EPO; JPO; DERWENT			
S141	12,932	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S142	57	S141 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S143	9	S142 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S144	15	S142 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S145	49	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S146	6	S145 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S147	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S148	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S149	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S150	427	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S151	7	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48

S152	319	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S153	3	"13594813"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S154	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S155	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S156	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S157	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S158	5,028	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S159	4,232	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S160	56	S158 and S159	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S161	1,491	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S162	3	electrical adj generator same breath	US-PGPUB; USPAT;	OR	OFF	2016/07/25 10:48

			EPO; JPO; DERWENT			
S163	16	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S164	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S165	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S166	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S167	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S168	427	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S169	146	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S170	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S171	7	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S172	319	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S173	1	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S174	7	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48

S175	32,023	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S176	32,023	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S177	1,605	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S178	225	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S179	2	("2013/0309102").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S180	67,756	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S181	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S182	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S183	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S184	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S185	7,163	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48

S186	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S187	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S188	6,419	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S189	8,665	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S190	12,932	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S191	57	S190 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S192	9	S191 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S193	15	S191 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S194	49	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S195	6	S194 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48

S196	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S197	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/07/25 10:48
S198	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S199	427	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S200	7	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S201	319	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S202	82	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:48
S203	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/07/25 10:51
S204	33	("20070267031" "20080092912" "20080230052" "20080247892"	US-PGPUB; USPAT;	OR	OFF	2016/08/20 13:49

		"20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	EPO; JPO; DERWENT			
S205	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S206	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S207	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S208	5,052	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S209	4,261	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S210	59	S208 and S209	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S211	1,499	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S212	3	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S213	16	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S214	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S215	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49

S216	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S217	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S218	432	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S219	146	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S220	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S221	9	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S222	340	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S223	1	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S224	7	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S225	32,204	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S226	32,204	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S227	1,620	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49

S228	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S229	2	("2013/0309102").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S230	68,328	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S231	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S232	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S233	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S234	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S235	7,197	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S236	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S237	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S238	6,451	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR;	OR	OFF	2016/08/20 13:49

			EPO; JPO; DERWENT			
S239	8,906	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S240	13,008	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S241	58	S240 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S242	9	S241 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S243	15	S241 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S244	49	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S245	6	S244 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S246	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S247	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S248	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S249	432	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49

S250	9	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S251	340	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S252	3	"13594813"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S253	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S254	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S255	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S256	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S257	5,052	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S258	4,261	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S259	59	S257 and S258	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S260	1,499	generator same breath	US-PGPUB; USPAT;	OR	OFF	2016/08/20 13:49

			EPO; JPO; DERWENT			
S261	3	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S262	16	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S263	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S264	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S265	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S266	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S267	432	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S268	146	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S269	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S270	9	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S271	340	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S272	1	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49

S273	7	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S274	32,204	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S275	32,204	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S276	1,620	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S277	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S278	2	("2013/0309102").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S279	68,328	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S280	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S281	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S282	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S283	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S284	7,197	(B60H1/22).IPCR.	US-PGPUB; USPAT;	OR	OFF	2016/08/20 13:49

			USOCR; EPO; JPO; DERWENT			
S285	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S286	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S287	6,451	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S288	8,906	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S289	13,008	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S290	58	S289 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S291	9	S290 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S292	15	S290 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S293	49	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49

S294	6	S293 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S295	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S296	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S297	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S298	432	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S299	9	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S300	340	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S301	82	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S302	33	("20070267031" "20080092912" "20080230052" "20080247892"	US-PGPUB; USPAT;	OR	OFF	2016/08/20 13:49

		"20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	EPO; JPO; DERWENT			
S303	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S304	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S305	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S306	5,052	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S307	4,261	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S308	59	S306 and S307	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S309	1,499	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S310	3	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S311	16	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S312	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S313	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49

S314	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S315	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S316	432	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S317	146	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S318	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S319	9	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S320	340	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S321	1	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S322	7	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S323	32,204	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S324	32,204	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S325	1,620	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49

S326	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S327	2	("2013/0309102").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S328	68,328	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S329	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S330	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S331	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S332	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S333	7,197	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S334	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S335	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S336	6,451	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR;	OR	OFF	2016/08/20 13:49

			EPO; JPO; DERWENT			
S337	8,906	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S338	13,008	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S339	58	S338 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S340	9	S339 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S341	15	S339 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S342	49	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S343	6	S342 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S344	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S345	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S346	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S347	432	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49

S348	9	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S349	340	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S350	3	"13594813"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S351	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S352	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S353	3	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S354	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S355	5,052	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S356	4,261	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S357	59	S355 and S356	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S358	1,499	generator same breath	US-PGPUB; USPAT;	OR	OFF	2016/08/20 13:49

			EPO; JPO; DERWENT			
S359	3	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S360	16	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S361	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S362	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S363	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S364	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S365	432	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S366	146	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S367	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S368	9	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S369	340	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S370	1	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49

S371	7	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S372	32,204	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S373	32,204	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S374	1,620	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S375	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S376	2	("2013/0309102").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S377	68,328	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S378	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S379	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S380	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S381	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S382	7,197	(B60H1/22).IPCR.	US-PGPUB; USPAT;	OR	OFF	2016/08/20 13:49

			USOCR; EPO; JPO; DERWENT			
S383	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S384	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S385	6,451	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S386	8,906	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S387	13,008	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S388	58	S387 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S389	9	S388 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S390	15	S388 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S391	49	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49

S392	6	S391 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S393	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S394	1	("2008/0303286").URPN.	USPAT	OR	OFF	2016/08/20 13:49
S395	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S396	432	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S397	9	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S398	340	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S399	82	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2016/08/20 13:49
S400	3	"20090272379"	US-PGPUB; USPAT;	OR	OFF	2016/08/20 13:49

			EPO; JPO; DERWENT			
S401	1	("2015/0020833").URPN.	USPAT	OR	OFF	2016/08/20 13:59
S403	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S404	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S405	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S406	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S407	6,117	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S408	5,386	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S409	200	S407 and S408	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S410	1,870	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S411	6	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S412	19	miniature adj electrical adj generator	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:55

			EPO; JPO; DERWENT			
S413	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:55
S414	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:55
S415	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S416	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S417	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S418	152	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S419	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S420	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S421	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S422	6	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S423	129	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S424	38,924	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55

S425	38,924	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S426	2,105	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S427	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S428	4	("2013/0309102").URPN.	USPAT	OR	OFF	2019/02/18 18:55
S429	92,996	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S430	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S431	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S432	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S433	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S434	9,559	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S435	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55

S436	0	(A24f47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S437	7,167	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S438	17,594	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S439	15,977	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S440	100	S439 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S441	12	S440 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S442	17	S440 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S443	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S444	6	S443 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:55
S445	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:55
S446	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56

S447	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S448	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S449	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S450	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S451	4	"13594813"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S452	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S453	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S454	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S455	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S456	6,117	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S457	5,386	vaporizer and generator	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:56

			EPO; JPO; DERWENT			
S458	200	S456 and S457	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S459	1,870	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S460	6	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S461	19	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S462	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S463	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S464	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S465	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S466	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S467	152	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S468	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S469	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56

S470	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S471	6	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S472	129	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S473	38,924	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S474	38,924	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S475	2,105	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S476	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S477	4	("2013/0309102").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S478	92,996	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S479	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S480	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S481	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR;	OR	OFF	2019/02/18 18:56

			EPO; JPO; DERWENT			
S482	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S483	9,559	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S484	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S485	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S486	7,167	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S487	17,594	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S488	15,977	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S489	100	S488 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S490	12	S489 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S491	17	S489 and generator	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:56

			EPO; JPO; DERWENT			
S492	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S493	6	S492 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S494	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S495	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S496	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S497	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S498	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S499	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S500	83	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56

		"20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.				
S501	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S502	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S503	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S504	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S505	6,117	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S506	5,386	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S507	200	S505 and S506	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S508	1,870	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S509	6	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56

S510	19	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S511	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S512	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S513	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S514	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S515	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S516	152	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S517	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S518	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S519	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S520	6	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S521	129	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S522	38,924	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:56

			EPO; JPO; DERWENT			
S523	38,924	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S524	2,105	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S525	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S526	4	("2013/0309102").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S527	92,996	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S528	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S529	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S530	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S531	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S532	9,559	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S533	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR;	OR	OFF	2019/02/18 18:56

			EPO; JPO; DERWENT			
S534	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S535	7,167	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S536	17,594	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S537	15,977	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S538	100	S537 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S539	12	S538 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S540	17	S538 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S541	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S542	6	S541 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S543	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56

S544	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S545	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S546	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S547	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S548	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S549	4	"13594813"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S550	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S551	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S552	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S553	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S554	6,117	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56

S555	5,386	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S556	200	S554 and S555	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S557	1,870	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S558	6	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S559	19	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S560	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S561	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S562	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S563	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S564	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S565	152	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S566	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S567	71	e-cigarette and solar	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:56

			EPO; JPO; DERWENT			
S568	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S569	6	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S570	129	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S571	38,924	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S572	38,924	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S573	2,105	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S574	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S575	4	("2013/0309102").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S576	92,996	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S577	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S578	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56

S579	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S580	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S581	9,559	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S582	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S583	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S584	7,167	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S585	17,594	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S586	15,977	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S587	100	S586 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S588	12	S587 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56

S589	17	S587 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S590	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S591	6	S590 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S592	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S593	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S594	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S595	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S596	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S597	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S598	83	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56

		"D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.				
S599	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S600	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S601	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S602	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S603	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S604	6,117	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S605	5,386	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S606	200	S604 and S605	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S607	1,870	generator same breath	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:56

			EPO; JPO; DERWENT			
S608	6	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S609	19	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S610	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S611	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S612	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S613	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S614	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S615	152	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S616	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S617	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S618	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S619	6	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56

S620	129	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S621	38,924	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S622	38,924	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S623	2,105	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S624	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S625	4	("2013/0309102").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S626	92,996	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S627	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S628	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S629	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S630	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S631	9,559	(B60H1/22).IPCR.	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:56

			USOCR; EPO; JPO; DERWENT			
S632	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S633	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S634	7,167	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S635	17,594	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S636	15,977	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S637	100	S636 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S638	12	S637 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S639	17	S637 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S640	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56

S641	6	S640 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S642	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S643	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:56
S644	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S645	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S646	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S647	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S648	4	"13594813"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S649	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S650	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:56
S651	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S652	3	"20090272379"	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:57

			EPO; JPO; DERWENT			
S653	6,117	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S654	5,386	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S655	200	S653 and S654	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S656	1,870	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S657	6	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S658	19	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S659	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S660	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S661	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S662	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S663	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S664	152	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57

S665	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S666	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S667	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S668	6	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S669	129	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S670	38,924	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S671	38,924	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S672	2,105	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S673	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S674	4	("2013/0309102").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S675	92,996	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S676	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57

S677	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S678	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S679	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S680	9,559	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S681	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S682	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S683	7,167	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S684	17,594	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S685	15,977	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S686	100	S685 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57

S687	12	S686 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S688	17	S686 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S689	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S690	6	S689 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S691	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S692	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S693	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S694	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S695	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S696	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S697	83	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57

		"20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.				
S698	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S699	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S700	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S701	3	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S702	6,117	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S703	5,386	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S704	200	S702 and S703	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S705	1,870	generator same breath	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:57

			EPO; JPO; DERWENT			
S706	6	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S707	19	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S708	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S709	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S710	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S711	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S712	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S713	152	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S714	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S715	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S716	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S717	6	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57

S718	129	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S719	38,924	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S720	38,924	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S721	2,105	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S722	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S723	4	("2013/0309102").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S724	92,996	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S725	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S726	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S727	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S728	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S729	9,559	(B60H1/22).IPCR.	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:57

			USOCR; EPO; JPO; DERWENT			
S730	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S731	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S732	7,167	(f24h3/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S733	17,594	(a24f47/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S734	15,977	(a61m15/00).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S735	100	S734 and "392"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S736	12	S735 and breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S737	17	S735 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S738	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57

S739	6	S738 and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S740	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S741	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S742	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S743	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S744	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S745	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S746	4	"13594813"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S747	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S748	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S749	4	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S750	3	"20090272379"	US-PGPUB; USPAT;	OR	OFF	2019/02/18 18:57

			EPO; JPO; DERWENT			
S751	6,117	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S752	5,386	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S753	200	S751 and S752	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S754	1,870	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S755	6	electrical adj generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S756	19	miniature adj electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S757	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S758	2	("2008/0303286").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S759	9	miniature adj turbine and electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S760	0	miniature adj turbine same electrical adj generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S761	700	vaporizer and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S762	152	"392"/\$.ccls. and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57

S763	4	"392"/\$.ccls. and photovoltaic and cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S764	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S765	1,314	e-cigarette	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S766	6	e-cigarette and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S767	129	e-cigarette and photo	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S768	38,924	vaporizer or (air adj freshener) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S769	38,924	vaporizer or ((air adj freshener) and solar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S770	2,105	(vaporizer or (air adj freshener)) and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S771	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S772	4	("2013/0309102").URPN.	USPAT	OR	OFF	2019/02/18 18:57
S773	92,996	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S774	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57

S775	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S776	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S777	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S778	9,559	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S779	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
S780	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
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S793	71	e-cigarette and solar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2019/02/18 18:57
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EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S402	9	vaporizer and cartridge and breath and airflow and threaded and battery	US-PGPUB; USPAT	OR	OFF	2016/08/20 13:57
S798	17	vaporizer and cartridge and breath and airflow and threaded and battery	US-PGPUB; USPAT	OR	OFF	2019/02/18 18:57

3/9/2022 4:28:58 PM
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OMB 0651-0031

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
<i>(Use several sheets if necessary)</i> Sheet 1 of 1			Filing Date June 25, 2019		Group Art Unit 3761	Examiner T.S. Campbell
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U.S. PATENT PUBLICATION DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Transcript of Summary Judgement Motion Hearing dated April 27, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Submission of Defendant's Powerpoint Presentations Published During the Summary Judgement Hearing dated April 29, 2021 and Exhibits A and B.					
	Defendant R.J. Reynolds Vapor Company's Motion to Reconsider Order (DKT. 139) Granting Motion for Summary Judgement dated June 1, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Defendant R.J. Reynolds Vapor Company's Brief in Support of Its Motion for Reconsideration dated June 1, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Plaintiff Fuma International LLC's Opposition to R.J. Reynold's Motion for Reconsideration of the Court's Summary Judgement Order on Infringement dated June 22, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Defendant R.J. Reynolds Vapor Company's Reply in Support of Its Motion for Reconsideration dated July 6, 2021, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
	Order dated July 28, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
EXAMINER /THOR S CAMPBELL/ (03/09/2022)			DATE CONSIDERED			
EXAMINER: Initial if citation 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 the applicant.						

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S.C/

NJOY Exhibit 2029.343
Juul v. NJOY
IPR2024-00161

OMB 0651-0031

Substitute for FORM PTO-1449			Attorney Docket Number 269.0003-03000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Gregory D. Conley et al.		Application Number 16/451,483	
(Use several sheets if necessary) Sheet <u>1</u> of <u>1</u>			Filing Date June 25, 2019		Art Unit 3600	Examiner
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U.S. PUBLICATION DOCUMENTS						
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Memorandum and Order dated May 24, 2021, U.S. District Court for the Middle District of North Carolina, Civil Action Nos. 19-cv-260 (lead case) and 19-cv-660.					
EXAMINER	/THOR S CAMPBELL/ (03/09/2022)		DATE CONSIDERED			
EXAMINER: Initial if citation 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 the applicant.						

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S.C/

NJOY Exhibit 2029.344
Juul v. NJOY
IPR2024-00161

Electronic Acknowledgement Receipt	
EFS ID:	45950710
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	14-JUN-2022
Filing Date:	25-JUN-2019
Time Stamp:	13:40:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Request for Reconsideration-After Non-Final Rejection	Response.pdf	161020	no	6
			b8fbde03632247cdcaa5f0ac0a27707f964b3e61		

Warnings:

**NJOY Exhibit 2029.345
Juul v. NJOY
IPR2024-00161**

Information:	
Total Files Size (in bytes):	161020
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3761
Filed: June 25, 2019	)	Examiner: Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	

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

Sir:

RESPONSE

In reply to the Office Action dated March 14, 2022, the following remarks are submitted:

Remarks begin on page 2 of this paper.

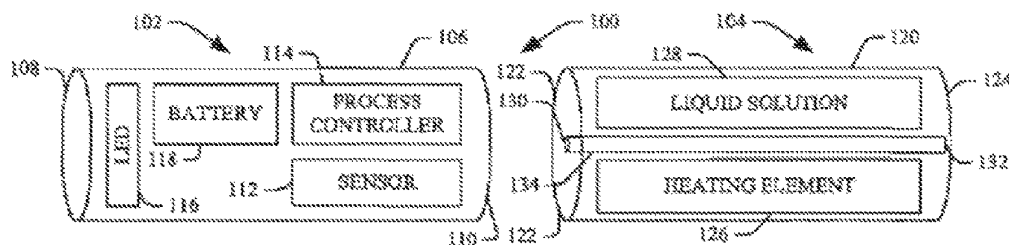
REMARKS

I. Rejections Under 35 U.S.C. § 102.

In the Office Action, claims 41-80 were rejected under 35 U.S.C. § 102(e) as being anticipated by Han (US 2009/0095311A1). Applicant respectfully traverses these rejections.

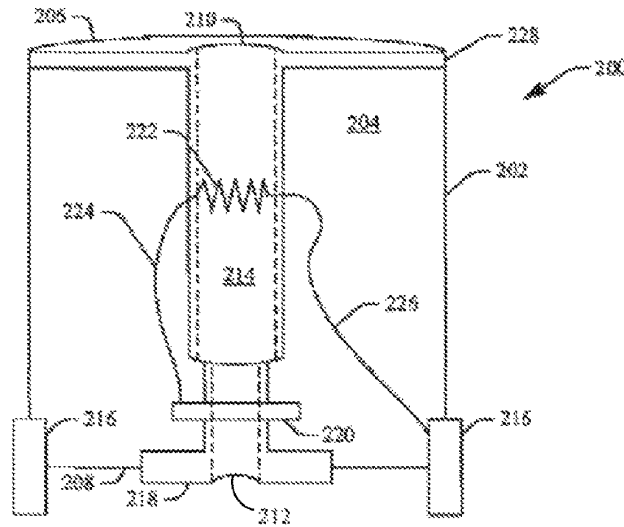
Each of Applicant's independent claims 41, 56, 69, and 80 recite "A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising: a housing having an interior and a solution holding medium adapted to hold a solution ... and a heating element located in the interior of the housing." By way of illustration, Fig. 1 from Applicant's specification, shows a functional block diagram including a power source 102 and a cartridge 104, where the cartridge 104 includes a housing 120 containing in its interior a heating element 126 and a solution 128 for vaporizing. In operating, the user couples the power source 102 with the cartridge 104 so that battery 118 is electrically coupled to the heating element 126. (See paragraph [0025], page 7 of application.)

FIG. 1



In another illustration, Fig. 2 from Applicant's specification, shows an exemplary cutaway configuration of a cartridge for utilization in an electronic vaporizer. Cartridge 200 includes a housing 202 containing in its interior a heating element 222 and an absorbent material 204 that has a liquid solution absorbed therein. (See paragraph [0029], page 10 of application.)

FIG. 2



As discussed above, Applicant's independent claims are directed to a cartridge having a housing containing a solution holding medium adapted to hold a solution and a heating element. Furthermore, a first end of the cartridge housing, as claimed, is "adapted to electrically couple to the power source." In other words, the power source and the cartridge containing the heating element are separate and are configured to be electrically coupled together by a user. (See paragraph [0025], page 7 of application.)

Unlike Applicant's claimed cartridge, Han only includes a shell (b) having a perforated component for liquid storage (9), and it is this shell (b) of Han that is inserted into another shell (a) containing both a heating wire (83) and a power source, i.e. shell (a) and its contents. As illustrated in Figs. 1, 2 and 18, Han discloses an electronic cigarette including shell (a) containing therein a rechargeable battery (3) connected to an atomizer assembly (8) having a heating wire (83). Separately, cigarette holder shell (b) referred to as a cigarette bottle assembly comprises a perforated component for liquid storage (9) inside shell (b), and does not include a heating element.

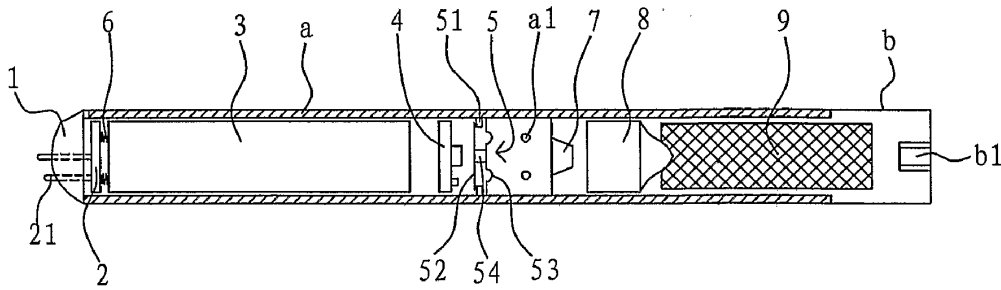


FIG. 1

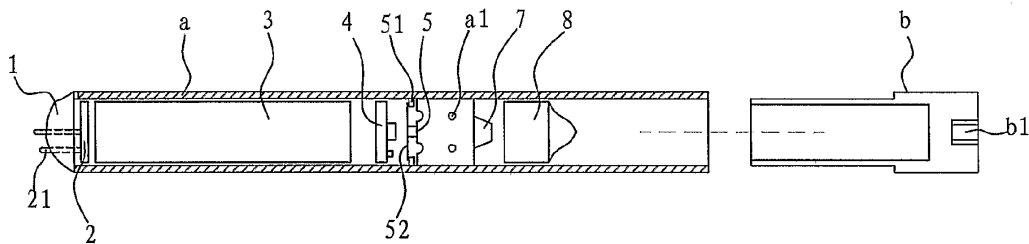


FIG. 2

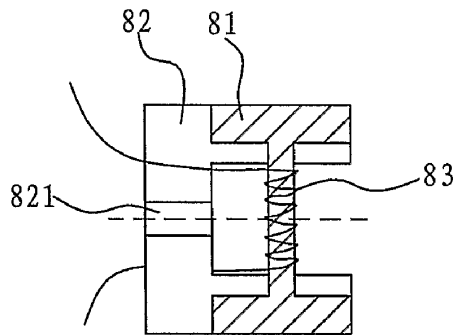


FIG. 18

Han at paragraph [0069] states, “the battery assembly and atomizer assembly are mutually connected and then installed inside the integrally formed shell (a) to form a one-piece part,” and “[t]he user just needs to plug the cigarette bottle assembly into the open end of the shell (a), for easy use and very easy change.” The cigarette bottle assembly includes shell (b) and the liquid storage (9) inside shell (b). Shell (b) does not contain a heating element as required by Applicant’s claims. Moreover, the first end of the Han shell (b) is inserted into shell (a) and is not “adapted to electrically couple to the power source” as recited by Applicant’s claims. Han’s integrally formed shell (a) includes battery assembly (3) connected to an atomizer assembly (8) having a heating wire (83). There is no need for Han’s shell (b) to be adapted to electrically couple to the power source because Han’s shell (b) does not include a heating element. Thus, Applicant submits that Han does not disclose every aspect of independent claims 41, 56, 69, and 80, and hence, independent claims 41, 56, 69, and 80 are patentable over the Office Action’s rejection under 35 U.S.C. § 102 based on Han.

Additionally, dependent claims 49, 63, and 75 dependent from independent claims 41, 56, and 69 or claims dependent therefrom, respectively are further distinguishable from Han. These dependent claims recite “wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.” With reference to Fig. 19 of Han, the Office Action identified (a1) as the first aperture and (b1) as the second aperture. However, the structure of Han cannot meet the limitations of dependent claims 49, 63, and 75 for two reasons. First, Han’s shell (b) does not include a central airflow passageway and instead places the

perforated component for liquid storage (9) in the middle of shell (b), thereby forcing the airflow around the peripheral surface of perforated component for liquid storage (9) as described in paragraph [0070] of Han and shown in FIG. 3. Second, the first aperture (a1) of Han is on the side of shell (a), which is not a cartridge as claimed by Applicant. Thus, Applicant submits that Han does not disclose every recitation of dependent claims 49, 63, and 75, and these dependent claims are patentable over the Office Action's § 102 rejection based on Han.

In conclusion, at the very least, independent claims 41, 56, 69, and 80 are patentable over the Office Action's rejection under 35 U.S.C. § 102 based on Han, and dependent claims 42-55, 57-68, and 70-79 dependent from independent claims 41, 56, or 69, or claims dependent therefrom, are patentable at least due to their dependency from an allowable independent claim. Accordingly, it is requested that the Examiner reconsider the outstanding rejections in view of the preceding comments. Issuance of a timely Notice of Allowance of the claims is earnestly solicited.

If there are any fees due in connection with the filing of this Amendment, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: June 14, 2022

By: /Thomas H. Martin/
Thomas H. Martin
Registration No. 34,383

1557 Lake O'Pines Street, NE
Hartville, Ohio 44632
Telephone: (330) 877-0700



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000	5143
22882	7590	09/08/2022		
MARTIN & FERRARO, LLP 1557 LAKE O'PINES STREET, NE HARTVILLE, OH 44632			EXAMINER CAMPBELL, THOR S	
			ART UNIT	PAPER NUMBER
			3761	
			NOTIFICATION DATE	DELIVERY MODE
			09/08/2022	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):

USPTO-docketing@martinferraro.com

Notice of Pre-AIA or AIA Status

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

Affidavit Under 37 CFR 1.131(a)

The affidavit filed on 02/19/2021 under 37 CFR 1.131(a) is sufficient to overcome the CN201379072 reference.

Claim Rejections - 35 USC § 102

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

The following is a quotation of the appropriate paragraphs of pre-AIA 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 –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim(s) 41-48, 51, 52, 53, 55-62, 65,67-74, 77-80 is/are rejected under pre-AIA 35 U.S.C. 102(e) as being clearly anticipated by Thorens et al. (US 2009/0272379A1)

Thorens discloses in reference to claim:

41. A cartridge 201 configured to couple to a power source of an electronic vaporizer 301, the cartridge comprising: a housing (**201**) having an interior and a solution holding medium (207) adapted to hold a

solution 205, the housing having a first end **A** and a second end **B** that is opposite the first end, the housing having a first aperture (a1) proximate the first end and a second aperture (**b1**) proximate the second end, the first end of the housing 201 being adapted to electrically couple to the power source (103), the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture; and a heating element (209) located in the interior of the housing 201, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow, the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source.

Note: the cartridge 201 couples to the power source 103 through the housing at contacts 113, as such one can interpret the area of coupling to the power source as the first end of the cartridge.

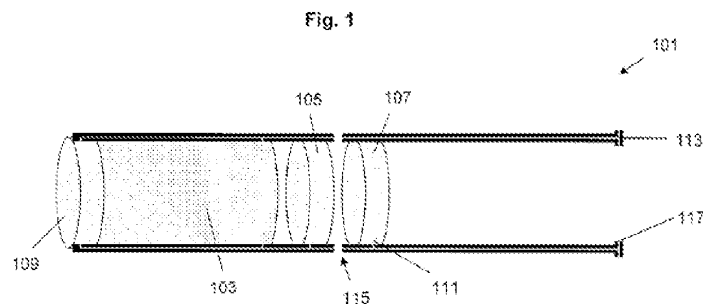
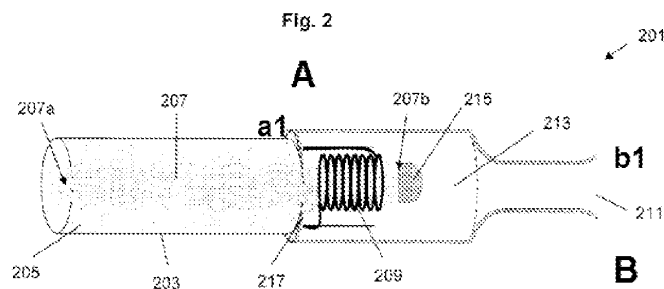
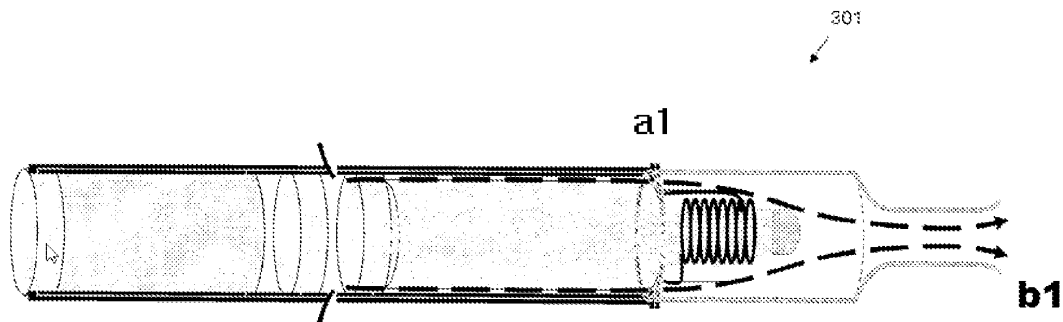


Fig. 3



42. The cartridge of claim 41, further in combination with a power source 103 adapted to be electrically coupled to the first end of the housing, the power source including a battery 103.

43. The cartridge of claim 41, wherein the cartridge is adapted to permit the airflow to pass on both transverse sides of the heating element during use of the electronic vaporizer. See Fig. 3

44. The cartridge of claim 41, wherein the heating element includes a wicking material (porous material 207) being operative to permit at least a portion of the solution to be held in the solution holding medium to be drawn toward the heating element 209 to be vaporized.

45. The cartridge of claim 41, wherein the first aperture a1 proximate the first end is smaller than the second aperture b1 proximate the second end. See Fig. 3

46. The cartridge of claim 41, further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine. Examples of suitable aerosol formers are glycerine and

propylene glycol. Additional examples of potentially suitable aerosol formers are described in EP-A-0 277 519 and U.S. Pat. No. 5,396,911.

47. The cartridge of claim 41, further comprising an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing. See Figure 3

48. The cartridge of claim 47, wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture. See Fig. 3

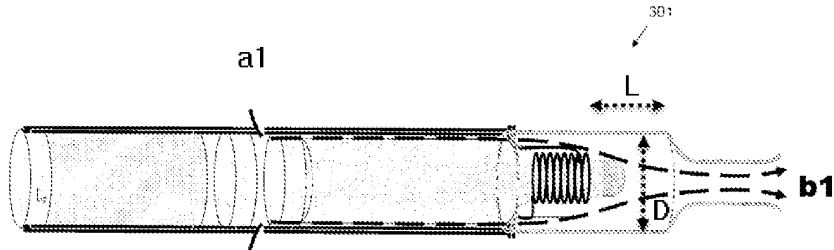
51. The cartridge of claim 41, wherein the heating element includes a coil. See Fig. 2, 3

52. The cartridge of claim 41, wherein the housing further comprises an airflow chamber 213 having a length extending intermediate of the heating element 209 and the second aperture b1, the chamber having an interior 213 between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture. See Fig. 3

53. The cartridge of claim 41, wherein the housing further comprises an airflow chamber 213 having a length L extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area D along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second

aperture. See Fig. 3

Fig. 3



55. The cartridge of claim 41, wherein the heating element includes a material (wire 209) that when powered by the power source is adapted to vaporize the solution brought into contact with the heating element.

Regarding claims 56-62,67-74, 77-80, see claims 41-48, 51, 52, 53, 55 *mutatis mutandis*

Allowable Subject Matter

Claims 49, 50, 54, 63, 64, 66, 75, 76 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to Hon as previously applied under 35 U.S.C. 102, have been fully considered and are persuasive. Applicant's arguments with respect to claim(s) 41-80 have been considered but are moot because the new ground of rejection does not rely on any reference applied in the prior rejection of record for any teaching or matter specifically challenged in the argument.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOR S CAMPBELL whose telephone number is (571)272-4776. The examiner can normally be reached M,W-F 6:30-10:30, 12-4.

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, Dana Ross can be reached on 5172724480. 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.

/THOR S CAMPBELL/
Primary Examiner
Art Unit 3761

*/THOR S CAMPBELL/
Primary Examiner, Art Unit 3761*

<i>Notice of References Cited</i>	Application/Control No. 16/451,483		Applicant(s)/Patent Under Reexamination Conley et al.	
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*	O	CN-101606758-A	12-2009	CN	FANG X	A24F40/40
*	P	WO-2014146232-A1	09-2014	WO	LIU Q	A24F47/008
*	Q	WO-2014101129-A1	07-2014	WO	LIU Q	A24F47/008
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*	E	US-6155268-A	12-2000	Takeuchi; Manabu	A24F40/485	131/194
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*	I	US-20090126745-A1	05-2009	Hon; Lik	H05B3/42	131/273
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✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	03/09/2022	09/01/2022							
	41	✓	✓							
	42	✓	✓							
	43	✓	✓							
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Search Notes 	Application/Control No. 16/451,483	Applicant(s)/Patent Under Reexamination Conley et al.
	Examiner THOR S CAMPBELL	Art Unit 3761

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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Search Notes		
Search Notes	Date	Examiner
Inventor search in DAV	03/09/2022	tsc
EAST search attached	03/09/2022	tsc
review related applications in DAV	03/09/2022	tsc
update previous search	09/01/2022	tsc

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

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PE2E SEARCH - Search History (Prior Art)

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L58	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L59	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L60	4818	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L61	4030	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L62	50	L60 and L61	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L63	1430	generator same breath	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/01/11 08:23 PM

L64	3	electrical adj generator same breath	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L65	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L66	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:23 PM
L67	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:23 PM
L68	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L69	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L70	375	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L71	140	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L72	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L73	6	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L74	229	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L75	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L76	6	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L77	30819	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L78	30819	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L79	1500	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L80	207	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L81	1	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:23 PM

L82	64010	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L83	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L84	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L85	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L86	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L87	6905	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L88	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L89	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L90	6238	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L91	7267	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L92	12379	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L93	52	L92 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L94	8	L93 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L95	14	L93 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L96	48	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L97	6	L96 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11

L98	1	("2008/0303286").URP N.	EPO; JPO; DERWENT) (USPAT)	OR	OFF	OFF	08:23 PM 2016/01/11 08:23 PM
L99	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:23 PM
L100	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L101	375	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L102	6	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L103	229	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L104	81	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" "20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" "3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" "20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" "20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" "20060196518" "20080 276947" "20090095311 " "20090126745" "D590 989" "20100242974" "5 249586" "5865185" "20 080247892" "20100031 968" "20080276947" "2 0110277760" "4284089 " "4945929" "4966171" "5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L105	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM

		68" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.					
L106	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L107	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L108	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L109	5028	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L110	4232	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L111	56	L109 and L110	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L112	1491	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L113	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L114	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L115	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L116	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L117	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L118	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L119	427	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L120	146	"392"\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L121	4	"392"\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM

L122	7	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L123	319	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L124	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L125	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L126	32023	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L127	32023	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L128	1605	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L129	225	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L130	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L131	67756	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L132	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L133	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L134	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L135	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L136	7163	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L137	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L138	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L139	6419	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2016/07/25 10:48 AM

L140	8665	(a24f47/00).IPCR.	DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L141	12932	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L142	57	L141 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L143	9	L142 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L144	15	L142 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L145	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "201102776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L146	6	L145 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L147	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L148	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L149	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L150	427	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L151	7	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L152	319	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L153	3	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L154	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM

		90126745 "20100031968 "20100037903 "20100200006 "20100200008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN.					
L155	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L156	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L157	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L158	5028	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L159	4232	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L160	56	L158 and L159	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L161	1491	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L162	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L163	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L164	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L165	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L166	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L167	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L168	427	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L169	146	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L170	4	"392"/\$.ccls. and photovoltaic and	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/07/25 10:48 AM

L171	7	cigarette e-cigarette and solar	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L172	319	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L173	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L174	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L175	32023	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L176	32023	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L177	1605	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L178	225	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L179	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L180	67756	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L181	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L182	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L183	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L184	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L185	7163	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L186	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L187	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L188	6419	(f24h3/00).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2016/07/25

L189	8665	(a24f47/00).IPCR.	USOCR; EPO; JPO; DERWENT)	OR	ON	ON	10:48 AM 2016/07/25 10:48 AM
L190	12932	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L191	57	L190 and "392"/\$.cccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L192	9	L191 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L193	15	L191 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L194	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L195	6	L194 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L196	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L197	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L198	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L199	427	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L200	7	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L201	319	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L202	82	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " 20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM

		0257367 "20100200006 "20110011396 "20110277757 "7726320 "3200819 "20080257367 "20080092912 "20080230052 "20100200008 "5050621 "20060196518 "20080092912 "20100200008 "D590991 "20090272379 "7726320 "20070267031 "20100200006 "D613904 "4969476 "20110192399 "20050016550 "20060196518 "20080276947 "20090095311 "20090126745 "D590989 "20100242974 "5249586 "5865185 "20080247892 "20100031968 "20080276947 "20110277760 "4284089 "4945929 "4966171 "5115820").PN.					
L203	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:51 AM
L204	33	("20070267031 "20080092912 "20080230052 "20080247892 "20080257367 "20080276947 "20090095311 "20090126745 "20100031968 "20100037903 "20100200006 "20100200008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L205	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L206	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L207	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L208	5052	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L209	4261	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L210	59	L208 and L209	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L211	1499	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L212	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L213	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L214	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L215	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L216	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L217	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L218	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L219	146	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L220	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L221	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L222	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L223	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L224	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L225	32204	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L226	32204	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L227	1620	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L228	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L229	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L230	68328	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L231	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L232	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L233	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L234	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L235	7197	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L236	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L237	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L238	6451	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L239	8906	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L240	13008	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L241	58	L240 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L242	9	L241 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L243	15	L241 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L244	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" "	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L245	6	4969476 "5050621 "5115820 "5249586 "5865185 "7412259 "7726320 "8156944").PN. L244 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L246	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L247	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L248	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L249	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L250	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L251	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L252	3	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L253	33	("20070267031 "20080092912 "20080230052 "20080247892 "20080257367 "20080276947 "20090095311 "20090126745 "20100031968 "20100037903 "20100200006 "2010020008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L254	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L255	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L256	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L257	5052	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L258	4261	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/08/20 01:49 PM

L259	59	L257 and L258	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L260	1499	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L261	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L262	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L263	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L264	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L265	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L266	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L267	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L268	146	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L269	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L270	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L271	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L272	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L273	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L274	32204	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L275	32204	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L276	1620	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/08/20 01:49 PM

L277	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L278	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L279	68328	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L280	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L281	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L282	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L283	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L284	7197	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L285	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L286	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L287	6451	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L288	8906	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L289	13008	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L290	58	L289 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L291	9	L290 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L292	15	L290 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L293	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L294	6	0 "3200819 "4284089" "4945929 "4966171" 4969476 "5050621 "5 115820 "5249586 "58 65185 "7412259 "772 6320 "8156944").PN. L293 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L295	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L296	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L297	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L298	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L299	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L300	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L301	82	("3200819 "201000319 68 "8156944 "200802 30052 "20100037903" "20100242974 "D5909 88 "D590990 "741225 9 "20050016550 "783 2410 "D613903 "2008 0257367 "2010020000 6 "20110011396 "201 10277757 "7726320" 3200819 "2008025736 7 "20080092912 "200 80230052 "201002000 08 "5050621 "200601 96518 "20080092912" "20100200008 "D5909 91 "20090272379 "77 26320 "20070267031" "20100200006 "D6139 04 "4969476 "201101 92399 "20050016550" "20060196518 "20080 276947 "20090095311 "20090126745 "D590 989 "20100242974 "5 249586 "5865185 "20 080247892 "20100031 968 "20080276947 "2 0110277760 "4284089 "4945929 "4966171"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

		5115820").PN.					
L302	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L303	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L304	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L305	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L306	5052	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L307	4261	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L308	59	L306 and L307	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L309	1499	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L310	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L311	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L312	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L313	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L314	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L315	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L316	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/08/20 01:49 PM

L317	146	"392"/\$.ccls. and photovoltaic	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L318	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L319	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L320	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L321	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L322	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L323	32204	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L324	32204	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L325	1620	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L326	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L327	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L328	68328	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L329	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L330	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L331	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L332	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L333	7197	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L334	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2016/08/20

L335	0	(A24F47/10).IPCR.	USOCR; EPO; JPO; DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	01:49 PM 2016/08/20 01:49 PM
L336	6451	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L337	8906	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L338	13008	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L339	58	L338 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L340	9	L339 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L341	15	L339 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L342	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L343	6	L342 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L344	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L345	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L346	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L347	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L348	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L349	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L350	3	"13594813"	(US-PGPUB; USPAT;	OR	OFF	OFF	2016/08/20

L351	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	01:49 PM 2016/08/20 01:49 PM
L352	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L353	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L354	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L355	5052	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L356	4261	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L357	59	L355 and L356	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L358	1499	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L359	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L360	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L361	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L362	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L363	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L364	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L365	432	vaporizer and	(US-PGPUB; USPAT;	OR	OFF	OFF	2016/08/20

		photovoltaic	EPO; JPO; DERWENT)				01:49 PM
L366	146	"392"\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L367	4	"392"\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L368	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L369	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L370	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L371	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L372	32204	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L373	32204	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L374	1620	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L375	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L376	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L377	68328	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L378	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L379	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L380	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L381	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L382	7197	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM

L383	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L384	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L385	6451	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L386	8906	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L387	13008	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L388	58	L387 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L389	9	L388 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L390	15	L388 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L391	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L392	6	L391 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L393	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L394	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L395	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L396	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L397	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L398	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L399	82	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L400	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L401	1	("2015/0020833").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:59 PM
L403	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L404	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L405	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L406	3	"20090272379"	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

L407	6117	cigarette and generator	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:55 PM 2019/02/18 06:55 PM
L408	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L409	200	L407 and L408	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L410	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L411	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L412	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L413	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:55 PM
L414	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:55 PM
L415	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L416	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L417	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L418	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L419	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L420	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L421	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L422	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L423	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L424	38924	vaporizer or (air adj	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

L425	38924	freshener) and solar vaporizer or ((air adj freshener) and solar	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:55 PM 2019/02/18 06:55 PM
L426	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L427	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L428	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:55 PM
L429	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L430	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L431	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L432	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L433	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L434	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L435	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L436	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L437	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L438	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L439	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L440	100	L439 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L441	12	L440 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM

L442	17	L440 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L443	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L444	6	L443 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L445	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:55 PM
L446	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L447	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L448	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L449	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L450	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L451	4	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L452	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L453	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L454	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM

L455	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L456	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L457	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L458	200	L456 and L457	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L459	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L460	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L461	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L462	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L463	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L464	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L465	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L466	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L467	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L468	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L469	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L470	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L471	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L472	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM

L473	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L474	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L475	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L476	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L477	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L478	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L479	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L480	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L481	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L482	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L483	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L484	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L485	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L486	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L487	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L488	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L489	100	L488 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L490	12	L489 and breath	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2019/02/18 06:56 PM

L491	17	L489 and generator	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L492	50	("20050016550" "20060 196518" "20110011396 "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L493	6	L492 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L494	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L495	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L496	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L497	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L498	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L499	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L500	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " 20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" " 20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" " 20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" " 20060196518" "20080	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM

L501	33	276947 "20090095311 "20090126745 "D590 989 "20100242974 "5 249586 "5865185 "20 080247892 "20100031 968 "20080276947 "2 0110277760 "4284089 "4945929 "4966171 "5 115820").PN. ("20070267031 "20080 092912 "20080230052 "20080247892 "2008 0257367 "2008027694 7 "20090095311 "200 90126745 "201000319 68 "20100037903 "20 100200006 "20100200 008 "20100242974 "7 832410 "D590988 "D5 90989 "D590990 "D59 0991 "D613903 "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L502	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L503	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L504	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L505	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L506	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L507	200	L505 and L506	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L508	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L509	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L510	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L511	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L512	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM

L513	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L514	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L515	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L516	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L517	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L518	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L519	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L520	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L521	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L522	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L523	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L524	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L525	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L526	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L527	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L528	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L529	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L530	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2019/02/18 06:56 PM

L531	0	(a24f47/08).IPCR.	DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L532	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L533	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L534	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L535	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L536	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L537	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L538	100	L537 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L539	12	L538 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L540	17	L538 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L541	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L542	6	L541 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L543	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L544	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L545	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L546	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2019/02/18 06:56 PM

L547	71	e-cigarette and solar	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L548	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L549	4	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L550	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L551	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L552	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L553	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L554	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L555	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L556	200	L554 and L555	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L557	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L558	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L559	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L560	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L561	2	("2008/0303286").URP	(USPAT)	OR	OFF	OFF	2019/02/18

L562	9	N. miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:56 PM 2019/02/18 06:56 PM
L563	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L564	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L565	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L566	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L567	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L568	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L569	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L570	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L571	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L572	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L573	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L574	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L575	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L576	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L577	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L578	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L579	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2019/02/18

L580	0	(a24f47/08).IPCR.	USOCR; EPO; JPO; DERWENT)	OR	ON	ON	06:56 PM
L581	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L582	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L583	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L584	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L585	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L586	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L587	100	L586 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L588	12	L587 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L589	17	L587 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L590	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L591	6	L590 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L592	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L593	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L594	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L595	700	vaporizer and	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

L596	71	photovoltaic e-cigarette and solar	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:56 PM 2019/02/18 06:56 PM
L597	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L598	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " "20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" " "20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" " "20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" " "20060196518" "20080 276947" "20090095311 " "20090126745" "D590 989" "20100242974" "5 249586" "5865185" "20 080247892" "20100031 968" "20080276947" "2 0110277760" "4284089 " "4945929" "4966171" " 5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L599	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L600	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L601	4	"12843917"	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

L602	4	"12843917"	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:56 PM 2019/02/18 06:56 PM
L603	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L604	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L605	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L606	200	L604 and L605	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L607	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L608	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L609	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L610	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L611	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L612	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L613	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L614	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L615	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L616	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L617	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L618	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L619	6	e-cigarette and	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

L620	129	photovoltaic e-cigarette and photo	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:56 PM 2019/02/18 06:56 PM
L621	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L622	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L623	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L624	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L625	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L626	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L627	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L628	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L629	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L630	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L631	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L632	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L633	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L634	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L635	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L636	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM

L637	100	L636 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L638	12	L637 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L639	17	L637 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L640	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L641	6	L640 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L642	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L643	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L644	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L645	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L646	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L647	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L648	4	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L649	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM

L650	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L651	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L652	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L653	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L654	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L655	200	L653 and L654	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L656	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L657	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L658	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L659	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L660	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L661	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L662	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L663	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L664	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L665	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L666	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L667	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM

L668	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L669	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L670	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L671	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L672	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L673	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L674	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L675	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L676	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L677	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L678	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L679	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L680	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L681	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L682	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L683	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L684	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L685	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2019/02/18 06:57 PM

L686	100	L685 and "392"/\$.cccls.	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L687	12	L686 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L688	17	L686 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L689	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L690	6	L689 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L691	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L692	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L693	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L694	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L695	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L696	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L697	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " 20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" "	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM

L698	33	"20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L699	4	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L700	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L701	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L702	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L703	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L704	200	L702 and L703	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L705	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L706	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L707	19	miniature adj electrical	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM

		adj generator	EPO; JPO; DERWENT)				06:57 PM
L708	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L709	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L710	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L711	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L712	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L713	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L714	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L715	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L716	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L717	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L718	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L719	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L720	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L721	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L722	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L723	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L724	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L725	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2019/02/18 06:57 PM

L726	0	(a24f047/008).IPCR.	DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L727	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L728	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L729	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L730	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L731	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L732	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L733	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L734	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L735	100	L734 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L736	12	L735 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L737	17	L735 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L738	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L739	6	L738 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L740	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L741	2	("2008/0303286").URP	(USPAT)	OR	OFF	OFF	2019/02/18

L742	0	N. miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:57 PM 2019/02/18 06:57 PM
L743	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L744	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L745	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L746	4	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L747	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L748	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L749	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L750	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L751	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L752	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L753	200	L751 and L752	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L754	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L755	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM

L756	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L757	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L758	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L759	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L760	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L761	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L762	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L763	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L764	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L765	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L766	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L767	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L768	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L769	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L770	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L771	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L772	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L773	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L774	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2019/02/18

L775	0	(a24f047/008).IPCR.	USOCR; EPO; JPO; DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	06:57 PM 2019/02/18 06:57 PM
L776	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L777	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L778	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L779	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L780	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L781	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L782	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L783	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L784	100	L783 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L785	12	L784 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L786	17	L784 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L787	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L788	6	L787 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L789	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM

L790	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L791	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L792	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L793	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L794	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L795	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" "20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" " 20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" " 20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" " 20060196518" "20080 276947" "20090095311 " "20090126745" "D590 989" "20100242974" "5 249586" "5865185" "20 080247892" "20100031 968" "20080276947" "2 0110277760" "4284089 " "4945929" "4966171" " 5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L796	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L797	16	("2015/0020833").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L799	1	"15377522"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/02/18 09:03 PM
L800	113	("20050016550" "20060 196518" "20070267031 " "20080073443" "2008	(US-PGPUB; USPAT)	OR	ON	ON	2019/02/18 09:03 PM

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L801	3	D767822 "D776869 "D779725 "D780993 "D782108").PN. "16451483"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 12:59 PM
L802	123469	(A61M11/042 A24F40/44 A24F40/42 A61M15/06 H05B1/0244 A24F40/10 A61M16/0066 A61M2016/0024 A61M2016/0027 A61M2016/0039 A61M2205/13 A61M2205/3653 A61M2205/50 A61M2205/6054 A61M2205/8206 A61M2205/825 H05B2203/021).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:01 PM
L803	1008	L802 and (coil element) same transverse	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:03 PM
L804	430	L802 and (coil element) same transverse and longitudinal near axis	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:03 PM
L805	224	L804 and cigarette	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:04 PM
L806	127	("1968509 "6155268 "6598607 "0000024 "0000001 "0000004 "0000020 "0000023 "0000604 "0000026 "20090272379 "20140060554 "4284089 "5249586 "8910639 "20050016550 "20060196518 "20070267031 "20080073443 "20080092912 "20080230052 "20080247892 "20080257367 "20080276947 "20080303286 "20090095311 "20090126745 "2010031968 "20100037903 "20100200006 "20100200008 "20100242974 "20110011396 "20110192399 "20110277757 "20110277760 "20110304282 "20120285475 "20130309102 "20130312739 "20140020696 "20140060528 "	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/09 01:06 PM

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L807	50123	cox.in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:13 PM
L808	255	L807 and L802	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:13 PM
L809	125802	@PD>="20090106"<="20090113"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:38 PM
L810	123469	(A61M11/042 A24F40/44 A24F40/42 A61M15/06	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:40 PM

		H05B1/0244 A24F40/10 A61M16/0066 A61M2016/0024 A61M2016/0027 A61M2016/0039 A61M2205/13 A61M2205/3653 A61M2205/50 A61M2205/6054 A61M2205/8206 A61M2205/825 H05B2203/021).cpc.					
L811	102145	L810 and @PD>="20090726"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:40 PM
L812	22684	L810 and @PD<="20090726"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:41 PM
L813	430	L810 and (coil element) same transverse and longitudinal near axis	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:43 PM
L814	40	L812 and L813	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:43 PM
L815	8424	L810 and (coil element) and cigarette	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:44 PM
L816	197	L815 and L812	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:44 PM
L817	6822	L810 and (coil element) and cigarette and liquid	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:46 PM
L818	122	L817 and L812	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:46 PM
L819	401	("2009/0095311").URP N.	(USPAT)	OR	ON	ON	2022/03/09 02:07 PM
L820	277	("1775947" "20030108342" "20040261802" "20050016550" "20050236006" "20060196518" "20070267031" "20080276947" "20090095311" "20090126745" "20090151717" "20090188490" "20090230117" "20090260642" "20090272379" "20100031968" "20100126505"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 02:08 PM

L821	367	"20100181387" "20100200008" "20100242974" "20100307518" "20110005535" "20110036346" "2057353" "2631219" "3200819" "4171000" "4228925" "4641053" "4735217" "4756318" "4771796" "4819665" "4848374" "4945929" "4945931" "4947875" "5042470" "5060671" "5080114" "5095921" "5144962" "5159940" "5190060" "5224498" "5249586" "5261424" "5285798" "5322075" "5388594" "5438978" "5497791" "5505214" "5591368" "5666977" "5666978" "5730158" "5743251" "5799663" "5819756" "5878752" "5894841" "6040560" "6041789" "6095153" "6164287" "6178969" "6196218" "6354293" "6357671" "6443146" "6532965" "6715494" "6772756" "6803545" "6810883" "6854461" "7100618" "7131599" "7726320" "7832410" "7845359" "7997280").PN. OR ("8393331").URPN. ("1771366" "20020146242" "20030131859" "20030226837" "20040020500" "20040118401" "20040129280" "20040149296" "20040200488" "20040226568" "20040255965" "20050016549" "20050016550" "20050066986" "20050172976" "20050268911" "20050274390" "20060016453" "20060070633" "20060162733"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 02:14 PM
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PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N402	9	vaporizer and cartridge and breath and airflow and threaded and battery	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/20 01:57 PM
N798	17	vaporizer and cartridge and breath and airflow and threaded and battery	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000	5143
22882	7590	09/21/2022		
MARTIN & FERRARO, LLP 1557 LAKE O'PINES STREET, NE HARTVILLE, OH 44632			EXAMINER CAMPBELL, THOR S	
			ART UNIT	PAPER NUMBER
			3761	
			NOTIFICATION DATE	DELIVERY MODE
			09/21/2022	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):

USPTO-docketing@martinferraro.com

<i>Applicant-Initiated Interview Summary</i>	Application No. 16/451,483	Applicant(s) Conley et al.		
	Examiner THOR S CAMPBELL	Art Unit 3761	AIA (First Inventor to File) Status No	Page 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
THOR S CAMPBELL	Primary Examiner	Telephonic
Thomas Martin	Attorney	

Date of Interview: 13 September 2022

Issues Discussed:

35 U.S.C. 102

Discussed the differences between Applicant figure 2 and Figure 2 of Thorens regarding the claimed heating element extending transverse to a central longitudinal axis vs the Thorens heating element that extends around the central longitudinal axis. Examiner pointed out the the Thorens element does "extend" in the transverse direction as claimed. Further the Examiner noted that preciously cited art shows heating elements similar to Applicant Figure 2 and that such a limitation would not likely obviate a obviousness rejection. No agreement on patentability of the rejected claims was reached, however, Applicant may choose to incorporate indicated allowable subject matter.

/THOR S CAMPBELL/ Primary Examiner, Art Unit 3761	
<p>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</p> <p>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</p>	

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/451,483		Filing Date 06/25/2019		☐ 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(j))		minus 20 = *				x \$50 =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$230 =			
☐ 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									
AMENDMENT	09/23/2022	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(j))	* 48	Minus	** 40	= 8	x \$50 =		400	
	Independent (37 CFR 1.16(h))	* 8	Minus	*** 4	= 4	x \$240 =		960	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		1360	
AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(j))	*	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".						/DAWN BREWER/			
*** 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 Patent Application Fee Transmittal				
Application Number:		16451483		
Filing Date:		25-Jun-2019		
Title of Invention:		ELECTRONIC VAPORIZER		
First Named Inventor/Applicant Name:		Gregory D. Conley		
Filer:		Wesley Charles Meinertding		
Attorney Docket Number:		269.0003-03000		
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:				
CLAIMS IN EXCESS OF 20	1202	8	100	800
INDEPENDENT CLAIMS IN EXCESS OF 3	1201	4	480	1920
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				2720

Electronic Acknowledgement Receipt	
EFS ID:	46685690
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	23-SEP-2022
Filing Date:	25-JUN-2019
Time Stamp:	18:14:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$2720
RAM confirmation Number	E20229MI14433482
Deposit Account	604357
Authorized User	Wesley Meinerding
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.16 (National application filing, search, and examination fees)</p> <p>37 CFR 1.17 (Patent application and reexamination processing fees)</p>	

37 CFR 1.19 (Document supply fees)					
37 CFR 1.20 (Post Issuance fees)					
37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Request for Reconsideration-After Non-Final Rejection	Amendment.pdf	123542	no	17
			58ad104a3fc0e4944b35a66e1ed58e22d4b2bbbc		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	39999	no	2
			ecfc9ed61f6a7af5eca7efc634111916f91dd1ef		
Warnings:					
Information:					
Total Files Size (in bytes):			163541		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 5143
Gregory D. Conley et al.	)	
Serial No.: 16/451,483	)	Group Art Unit: 3761
Filed: June 25, 2019	)	Examiner: Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	

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

Sir:

AMENDMENT

In reply to the Office Action dated September 8, 2022, please enter the following:

Amendments to the **Claims** are reflected in the Listing of Claims beginning on page 1;

Remarks begin on page 16 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (cancelled).

Claims 21-40 (cancelled).

Claims 41-48 (cancelled).

49. (currently amended) ~~The cartridge of claim 47A~~ a cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture;

a heating element located in the interior of the housing, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow, the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source; and

an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing,

wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.

50. (currently amended) ~~The cartridge of claim 47A~~ a cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture;

a heating element located in the interior of the housing, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow, the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source; and

an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing,

wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing.

Claims 51-53 (cancelled).

54. (currently amended) ~~The cartridge of claim 41~~A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture; and

a heating element located in the interior of the housing, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow, the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source,

wherein the airflow through the housing follows an airflow path, a first portion of the airflow path proximate the first aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing, and a second portion of the airflow path proximate to the second aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing.

Claims 55-62 (cancelled).

63. (currently amended) ~~The cartridge of claim 61A~~ cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end and a central longitudinal axis extending from the first end to the second end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing; and

a heating element located in the interior of the housing, the heating element including a coil extending transversely to the central longitudinal axis of the housing and transversely to a direction of the airflow such that the airflow passes on both transverse sides of the heating element during use of the electronic vaporizer, the heating element being configured to vaporize at least the portion of the solution drawn to the heating element for oral provision to an

individual in the airflow, the heating element being responsive to electrical power received from the power source; and

an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing,

wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.

64. (currently amended) The cartridge of claim 64A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end and a central longitudinal axis extending from the first end to the second end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing; and

a heating element located in the interior of the housing, the heating element including a coil extending transversely to the central longitudinal axis of the housing and transversely to a direction of the airflow such that the airflow passes on both transverse sides of the heating element during use of the electronic vaporizer, the heating element being configured to vaporize at least the portion of the solution drawn to the heating element for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source; and

an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing,

wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing.

Claim 65 (cancelled).

66. (currently amended) ~~The cartridge of claim 56A~~ cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end and a central longitudinal axis extending from the first end to the second end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing; and

a heating element located in the interior of the housing, the heating element including a coil extending transversely to the central longitudinal axis of the housing and transversely to a direction of the airflow such that the airflow passes on both transverse sides of the heating element during use of the electronic vaporizer, the heating element being configured to vaporize at least the portion of the solution drawn to the heating element for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source,

wherein the airflow through the housing follows an airflow path, a first portion of the airflow path proximate the first aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing, and a second portion of the airflow path proximate to the second aperture being defined substantially centrally and axially with respect to the central longitudinal axis of the housing.

Claims 67-74 (cancelled).

75. (currently amended) ~~The cartridge of claim 73A~~ cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite

the first end and a central longitudinal axis extending from the first end to the second end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing; and

a heating element located in the interior of the housing, the heating element extending transversely to the central longitudinal axis of the housing and being at least partially exposed to the airflow such that the airflow entering through the first aperture will separate and then pass on both transverse sides of the heating element and then continue along an airflow path co-axial with the central longitudinal axis of the housing toward the second aperture during use of the electronic vaporizer, the heating element being configured to vaporize at least the portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source; and

an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing,

wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.

76. (currently amended) The cartridge of claim 73A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

a housing having an interior and a solution holding medium adapted to hold a solution, the housing having a first end and a second end that is opposite the first end and a central longitudinal axis extending from the first end to the second end, the housing having a first aperture proximate the first end and a second aperture proximate the second end, the first end of the housing being adapted to electrically couple to the power source, the first aperture and the second aperture being in communication with one another to permit an airflow through the housing; and

a heating element located in the interior of the housing, the heating element extending transversely to the central longitudinal axis of the housing and being at least partially exposed to the airflow such that the airflow entering through the first aperture will separate and then pass on both transverse sides of the heating element and then continue along an airflow path co-axial with the central longitudinal axis of the housing toward the second aperture during use of the electronic vaporizer, the heating element being configured to vaporize at least the portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source; and

an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing,

wherein the airflow passageway extends in a straight path from the first aperture to the second aperture with only the heating element obstructing a portion of the airflow through the airflow passageway along the central longitudinal axis of the housing.

Claims 77-80 (cancelled).

81. (new) The cartridge of claim 49, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
82. (new) The cartridge of claim 49, wherein the airflow passageway has a length extending intermediate of the heating element and the second aperture, the airflow passageway having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
83. (new) The cartridge of claim 49, wherein the airflow passageway has a length extending intermediate of the heating element and the second aperture, the length of the airflow passageway having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-

sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the airflow passageway from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.

84. (new) The cartridge of claim 50, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
85. (new) The cartridge of claim 50, wherein the airflow passageway having a length extending intermediate of the heating element and the second aperture, the airflow passageway having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
86. (new) The cartridge of claim 50, wherein the airflow passageway having a length extending intermediate of the heating element and the second aperture, the length of the airflow passageway having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the airflow passageway from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.
87. (new) The cartridge of claim 54, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
88. (new) The cartridge of claim 54, wherein the cartridge is adapted to permit the airflow to pass on both transverse sides of the heating element during use of the electronic vaporizer.
89. (new) The cartridge of claim 54, wherein the heating element includes a wicking material being operative to permit at least a portion of the solution to be held in

the solution holding medium to be drawn toward the heating element to be vaporized.

90. (new) The cartridge of claim 54, wherein the first aperture proximate the first end is smaller than the second aperture proximate the second end.
91. (new) The cartridge of claim 54, further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine.
92. (new) The cartridge of claim 54, further comprising an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing.
93. (new) The cartridge of claim 92, wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture.
94. (new) The cartridge of claim 54, wherein the heating element includes a coil.
95. (new) The cartridge of claim 54, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
96. (new) The cartridge of claim 54, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.

97. (new) The cartridge of claim 54, wherein the heating element includes a material that when powered by the power source is adapted to vaporize the solution brought into contact with the heating element.
98. (new) The cartridge of claim 63, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
99. (new) The cartridge of claim 63, wherein the airflow passageway has a length extending intermediate of the heating element and the second aperture, the airflow passageway having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
100. (new) The cartridge of claim 63, wherein the airflow passageway has a length extending intermediate of the heating element and the second aperture, the length of the airflow passageway having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the airflow passageway from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.
101. (new) The cartridge of claim 64, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
102. (new) The cartridge of claim 64, wherein the airflow passageway has a length extending intermediate of the heating element and the second aperture, the airflow passageway having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
103. (new) The cartridge of claim 64, wherein the airflow passageway has a length

extending intermediate of the heating element and the second aperture, the length of the airflow passageway having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the airflow passageway from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.

104. (new) The cartridge of claim 66, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
105. (new) The cartridge of claim 66, wherein the heating element includes a wicking material being operative to permit at least a portion of the solution to be held in the solution holding medium to be drawn toward the heating element to be vaporized.
106. (new) The cartridge of claim 66, wherein the first aperture proximate the first end is smaller than the second aperture proximate the second end.
107. (new) The cartridge of claim 66, further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine.
108. (new) The cartridge of claim 66, further comprising an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing.
109. (new) The cartridge of claim 108, wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture.
110. (new) The cartridge of claim 66, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area

- measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
111. (new) The cartridge of claim 66, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the length of the chamber having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.
112. (new) The cartridge of claim 75, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
113. (new) The cartridge of claim 75, wherein the heating element comprises a material that when powered by the power source is adapted to vaporize the solution brought into contact with the heating element.
114. (new) The cartridge of claim 75, further comprising a solution in the solution holding medium, the solution comprising one of propylene glycol and nicotine.
115. (new) The cartridge of claim 75, wherein a majority of the portion of the airflow passageway has a substantially uniform cross-sectional area measured perpendicular to the central longitudinal axis of the housing between the heating element and the second aperture.
116. (new) The cartridge of claim 75, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element and the second aperture, the chamber having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
117. (new) The cartridge of claim 75, wherein the housing further comprises an airflow chamber having a length extending intermediate of the heating element

- and the second aperture, the length of the chamber having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the chamber from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.
118. (new) The cartridge of claim 76, further in combination with a power source adapted to be electrically coupled to the first end of the housing, the power source including a battery.
119. (new) The cartridge of claim 76, wherein the airflow passageway has a length extending intermediate of the heating element and the second aperture, the airflow passageway having an interior between the heating element and the second aperture, the interior having no cross-sectional area measured perpendicular to the central longitudinal axis of the housing smaller in cross-sectional area than a cross-sectional area of the second aperture.
120. (new) The cartridge of claim 76, wherein the airflow passageway has a length extending intermediate of the heating element and the second aperture, the length of the airflow passageway having a substantially uniform cross-sectional area along a continuous majority of the length, the substantially uniform cross-sectional area being measured perpendicular to the central longitudinal axis of the housing, no portion of the airflow passageway from immediately adjacent the heating element to the second aperture having a cross-sectional area smaller than a cross-sectional area of the second aperture.

REMARKS

Applicant has cancelled claims 41-48, 51-53, 55-62, 65, 67-74, 77-80 without prejudice or disclaimer of their subject matter, rewritten dependent claims 49, 50, 54, 63, 64, 66, 75, and 76 into independent form, and added new claims 81-120 to further define Applicant's claimed invention.

In an Applicant-Initiated Interview on September 13, 2022 the undersigned discussed differences between Applicant's Figure 2 and Thorens' Figure 2 regarding the claimed heating element extending transverse to the central longitudinal axis of the housing of the cartridge versus the Thorens heating element extending around the central longitudinal axis of the mouthpiece. No agreement on patentability of the rejected claims was reached.

I. Allowable Subject Matter.

The Office Action indicated that dependent claims 49, 50, 54, 63, 64, 66, 75, and 76 contain allowable subject matter and would be allowable if rewritten in independent form. Accordingly, Applicant has rewritten dependent claims 49, 50, 54, 63, 64, 66, 75, and 76 into independent form. Thus, newly independent claims 49, 50, 54, 63, 64, 66, 75, and 76 are in condition for allowance. Further, Applicant notes these newly independent claims are identical or at least substantially identical to the claims in U.S. Publication No. 2021/0235772 A1, the publication corresponding to the present application.

II. New Dependent Claims.

In addition, Applicant has added new dependent claims 81-120.

New dependent claims 81-83 (depending from newly independent claim 49) correspond to cancelled dependent claims 42, 52, and 53, respectively.

New dependent claims 84-86 (depending from newly independent claim 50) correspond to cancelled dependent claims 42, 52, and 53, respectively.

New dependent claims 87-97 (depending from newly independent claim 54) correspond to cancelled dependent claims 42-48, 51-53, and 55, respectively.

New dependent claims 98-100 (depending from newly independent claim 63) correspond to cancelled dependent claims 57, 67, and 68, respectively.

New dependent claims 101-103 (depending from newly independent claim 64) correspond to cancelled dependent claims 57, 67, and 68, respectively.

New dependent claims 104-111 (depending from newly independent claim 66) correspond to cancelled dependent claims 57-62, 67, and 68, respectively.

New dependent claims 112-117 (depending from newly independent claim 75) correspond to cancelled dependent claims 70-72, 74, 78, and 79, respectively.

New dependent claims 118-120 (depending from newly independent claim 76) correspond to cancelled dependent claims 70, 78, and 79, respectively.

III. Rejection Under 35 U.S.C. § 102.

In the Office Action, claims 41-48, 51-53, 55-62, 65, 67-74, and 77-80 were rejected under pre-AIA 35 U.S.C. § 102(e) based on Thorens et al. (U.S. Publication No. 2009/0272379, hereinafter “Thorens”). Applicant disagrees with the Office Action’s rejection of claims 41-48, 51-53, 55-62, 65, 67-74, and 77-80 under § 102(e) based on Thorens. Nevertheless, in order to expedite prosecution, Applicant has cancelled 41-48, 51-53, 55-62, 65, 67-74, and 77-80 without prejudice or disclaimer of their subject matter. As such, the Office Action’s rejection under § 102(e) is now moot.

Applicant intends to address and rebut the rejection over Thorens in a continuing prosecution application.

IV. Conclusion.

In view of the foregoing remarks, it is respectfully submitted that the claims, as amended, are patentable. Therefore, it is requested that the Examiner reconsider the outstanding rejections in view of the preceding comments. Issuance of a timely Notice of Allowance of the claims is earnestly solicited.

To the extent any extension of time under 37 C.F.R. § 1.136 is required to obtain entry of this reply, such extension is hereby respectfully requested. If there are any fees due under 37 C.F.R. §§ 1.16 or 1.17 which are not enclosed herewith, including any fees required for an extension of time under 37 C.F.R. § 1.136, please charge such fees to our Deposit Account No. 60-4357.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: September 23, 2022

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MARTIN & FERRARO, LLP
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EXAMINER

CAMPBELL, THOR S

ART UNIT

PAPER NUMBER

3761

DATE MAILED: 10/05/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000	5143

TITLE OF INVENTION: ELECTRONIC VAPORIZER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	01/05/2023

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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000	5143

TITLE OF INVENTION: ELECTRONIC VAPORIZER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	01/05/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
CAMPBELL, THOR S	3761	392-395000

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, 1 _____
- (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. 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. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000	5143
22882	7590	10/05/2022	EXAMINER	
MARTIN & FERRARO, LLP			CAMPBELL, THOR S	
1557 LAKE O'PINES STREET, NE			ART UNIT	
HARTVILLE, OH 44632			PAPER NUMBER	
			3761	
DATE MAILED: 10/05/2022				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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.

NJOY Exhibit 2029.458

Juul v. NJOY

IPR2024-00161

Notice of Allowability	Application No. 16/451,483	Applicant(s) Conley et al.	
	Examiner THOR S CAMPBELL	Art Unit 3761	AIA (FITF) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendments filed 9/23/2022.
☐ 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 49-50,54,63-64,66,75-76 and 81-120. 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)	5. ☐ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☐ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	

/THOR S CAMPBELL/ Primary Examiner, Art Unit 3761	
--	--

Search Notes 	Application/Control No. 16/451,483	Applicant(s)/Patent Under Reexamination Conley et al.
	Examiner THOR S CAMPBELL	Art Unit 3761

CPC - Searched*		
Symbol	Date	Examiner

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
Inventor search in DAV	03/09/2022	tsc
EAST search attached	03/09/2022	tsc
review related applications in DAV	03/09/2022	tsc
update previous search	09/01/2022	tsc
update previous search –allowable subject matter incorporated into independent claims	09/28/2022	tsc

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	Interference search attached	09/28/2022	tsc

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Issue Classification 	Application/Control No. 16/451,483	Applicant(s)/Patent Under Reexamination Conley et al.
	Examiner THOR S CAMPBELL	Art Unit 3761

CPC						
Symbol					Type	Version
A61M	/	11	/	042	F	2014-02-04
A24F	/	40	/	42	I	2020-01-01
A24F	/	40	/	44	I	2020-01-01
A61M	/	15	/	06	I	2013-01-01
H05B	/	1	/	0244	I	2013-01-01
A61M	/	2205	/	6054	A	2013-01-01
A61M	/	2205	/	825	A	2013-01-01
A61M	/	16	/	0066	A	2013-01-01
A61M	/	2205	/	8206	A	2013-01-01
A61M	/	2016	/	0027	A	2013-01-01
A61M	/	2205	/	13	A	2013-01-01
A61M	/	2205	/	3653	A	2013-01-01
A61M	/	2016	/	0039	A	2013-01-01
A61M	/	2205	/	50	A	2013-01-01
A61M	/	2016	/	0024	A	2013-01-01
A24F	/	40	/	10	A	2020-01-01
H05B	/	2203	/	021	A	2013-01-01

CPC Combination Sets					
Symbol	Type	Set	Ranking	Version	
/					

NONE	Total Claims Allowed:	
(Assistant Examiner)	(Date)	48
/THOR S CAMPBELL/ Primary Examiner, Art Unit 3761	28 September 2022	O.G. Print Claim(s)
(Primary Examiner)	(Date)	O.G. Print Figure
		1
		2

Issue Classification 	Application/Control No. 16/451,483	Applicant(s)/Patent Under Reexamination Conley et al.
	Examiner THOR S CAMPBELL	Art Unit 3761

INTERNATIONAL CLASSIFICATION			
CLAIMED			
A61M11/04	/	11	/ 04
A24F40/44	/	40	/ 44
A61M15/06	/	15	/ 06
A61M16/00	/	16	/ 00
A24F40/10	/	40	/ 10
NON-CLAIMED			
A24F40/42	/	40	/ 42
H05B1/02	/	1	/ 02

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE	Total Claims Allowed:	
(Assistant Examiner)	(Date)	48
/THOR S CAMPBELL/ Primary Examiner, Art Unit 3761	28 September 2022	O.G. Print Claim(s)
(Primary Examiner)	(Date)	1
		O.G. Print Figure
		2

Issue Classification 	Application/Control No. 16/451,483	Applicant(s)/Patent Under Reexamination Conley et al.
	Examiner THOR S CAMPBELL	Art Unit 3761

☐ Claims renumbered in the same order as presented by applicant
 ☐ CPA
 ☐ T.D.
 ☐ R.1.47

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	49	3	82	14	91	24	100	35	109	46	118				
5	50	4	83	15	92	26	101	36	110	47	119				
9	54	6	84	16	93	27	102	37	111	48	120				
21	63	7	85	17	94	28	103	39	112						
25	64	8	86	18	95	30	104	40	113						
29	66	10	87	19	96	31	105	41	114						
38	75	11	88	20	97	32	106	42	115						
45	76	12	89	22	98	33	107	43	116						
2	81	13	90	23	99	34	108	44	117						

NONE	Total Claims Allowed:	
(Assistant Examiner)	(Date)	48
/THOR S CAMPBELL/ Primary Examiner, Art Unit 3761	28 September 2022	O.G. Print Claim(s)
(Primary Examiner)	(Date)	O.G. Print Figure
		1
		2

Bibliographic Data

Application No: 16/451,483

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /THOR S CAMPBELL/

Examiner's Signature

Initials

Title: ELECTRONIC VAPORIZER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
06/25/2019	392	3761	269.0003-03000
RULE			

APPLICANTS

FUMA INTERNATIONAL, LLC, Medina, OH, UNITED STATES

INVENTORS

Gregory D. Conley, Medina, OH, UNITED STATES

Daniel C. Hillenbrandt, Brunswick, OH, UNITED STATES

CONTINUING DATA

This application is a CON of 15377522 12/13/2016 PAT 10334881

15377522 is a CON of 14510955 10/09/2014 PAT 9532604

14510955 is a CON of 13594813 08/25/2012 PAT 8897628

13594813 has PRO of 61527434 08/25/2011

13594813 is a CIP of 12843917 07/27/2010ABN

12843917 has PRO of 61273097 07/31/2009

12843917 has PRO of 61271819 07/27/2009

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

07/22/2019

** SMALL ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632
UNITED STATES

FILING FEE RECEIVED

\$785

**NJOY Exhibit 2029.465
Juul v. NJOY
IPR2024-00161**

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L2	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:20 PM
L3	1	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:26 PM
L4	1	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:27 PM
L5	2	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:38 PM
L6	4220	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:45 PM
L7	3438	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:45 PM
L8	34	L6 and L7	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:45 PM
L9	1208	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:47 PM
L10	2	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:48 PM
L11	15	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:48 PM
L12	0	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2014/04/07 01:51 PM
L13	0	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2014/04/07 01:51 PM
L14	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:51 PM
L15	0	miniature adj turbine same electrical adj	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2014/04/07 01:53 PM

L16	263	generator vaporizer and photovoltaic	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:55 PM
L17	109	"392"\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:56 PM
L18	3	"392"\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:56 PM
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L20	40	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:58 PM
L21	0	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:58 PM
L22	3	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 01:58 PM
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L25	1213	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 02:01 PM
L26	159	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/04/07 02:02 PM
L27	0	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2014/04/07 02:04 PM
L28	55202	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/07/14 12:55 PM
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L31	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2014/07/14 12:57 PM
L32	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2014/07/14 12:57 PM
L33	6185	(B60H1/22).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2014/07/14

L34	0	(A24F47/08).IPCR.	USOCR; EPO; JPO; DERWENT)	OR	ON	ON	12:58 PM
L35	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2014/07/14 12:59 PM
L36	5800	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2014/07/14 12:59 PM
L37	3612	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2014/07/14 01:00 PM
L38	11045	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2014/07/14 01:03 PM
L39	41	L38 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/07/14 01:04 PM
L40	6	L39 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/07/14 01:04 PM
L41	12	L39 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/07/14 01:05 PM
L42	47	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/07/14 01:11 PM
L43	6	L42 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2014/07/14 01:11 PM
L44	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:22 PM
L45	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:22 PM
L46	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:22 PM
L47	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:22 PM
L48	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:22 PM
L49	0	miniature adj turbine	(US-PGPUB; USPAT;	OR	OFF	OFF	2016/01/11

L50	375	same electrical adj generator vaporizer and photovoltaic	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	08:22 PM 2016/01/11 08:22 PM
L51	140	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:22 PM
L52	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:22 PM
L53	6	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:22 PM
L54	229	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:22 PM
L55	3	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L56	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L57	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L58	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L59	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L60	4818	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L61	4030	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L62	50	L60 and L61	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L63	1430	generator same breath	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/01/11 08:23 PM

L64	3	electrical adj generator same breath	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L65	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L66	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:23 PM
L67	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:23 PM
L68	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L69	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L70	375	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L71	140	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L72	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L73	6	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L74	229	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L75	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L76	6	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L77	30819	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L78	30819	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L79	1500	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L80	207	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L81	1	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:23 PM

L82	64010	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L83	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L84	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L85	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L86	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L87	6905	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L88	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L89	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L90	6238	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L91	7267	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L92	12379	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/01/11 08:23 PM
L93	52	L92 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L94	8	L93 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L95	14	L93 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L96	48	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L97	6	L96 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11

L98	1	("2008/0303286").URP N.	EPO; JPO; DERWENT) (USPAT)	OR	OFF	OFF	08:23 PM 2016/01/11 08:23 PM
L99	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/01/11 08:23 PM
L100	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L101	375	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L102	6	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L103	229	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L104	81	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" "20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" "3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" "20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" "20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" "20060196518" "20080 276947" "20090095311 " "20090126745" "D590 989" "20100242974" "5 249586" "5865185" "20 080247892" "20100031 968" "20080276947" "2 0110277760" "4284089 " "4945929" "4966171" "5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/01/11 08:23 PM
L105	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM

L106	3	68 "20100037903 "20100200006 "2010020008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN. "12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L107	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L108	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L109	5028	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L110	4232	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L111	56	L109 and L110	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L112	1491	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L113	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L114	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L115	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L116	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L117	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L118	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L119	427	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L120	146	"392"\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L121	4	"392"\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM

L122	7	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L123	319	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L124	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L125	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L126	32023	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L127	32023	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L128	1605	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L129	225	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L130	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L131	67756	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L132	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L133	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L134	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L135	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L136	7163	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L137	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L138	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L139	6419	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2016/07/25 10:48 AM

L140	8665	(a24f47/00).IPCR.	DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L141	12932	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L142	57	L141 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L143	9	L142 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L144	15	L142 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L145	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "201102776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L146	6	L145 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L147	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L148	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L149	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L150	427	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L151	7	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L152	319	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L153	3	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L154	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM

L155	3	90126745 "20100031968 "20100037903 "20100200006 "20100200008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN. "12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L156	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L157	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L158	5028	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L159	4232	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L160	56	L158 and L159	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L161	1491	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L162	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L163	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L164	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L165	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L166	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L167	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L168	427	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L169	146	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L170	4	"392"/\$.ccls. and photovoltaic and	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/07/25 10:48 AM

L171	7	cigarette e-cigarette and solar	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L172	319	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L173	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L174	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L175	32023	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L176	32023	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L177	1605	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L178	225	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L179	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L180	67756	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L181	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L182	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L183	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L184	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L185	7163	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L186	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L187	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L188	6419	(f24h3/00).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2016/07/25

L189	8665	(a24f47/00).IPCR.	USOCR; EPO; JPO; DERWENT)	OR	ON	ON	10:48 AM 2016/07/25 10:48 AM
L190	12932	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/07/25 10:48 AM
L191	57	L190 and "392"/\$.cccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L192	9	L191 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L193	15	L191 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L194	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L195	6	L194 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L196	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L197	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/07/25 10:48 AM
L198	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L199	427	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L200	7	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L201	319	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM
L202	82	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " 20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:48 AM

		0257367 "20100200006 "20110011396 "20110277757 "7726320 "3200819 "20080257367 "20080092912 "20080230052 "20100200008 "5050621 "20060196518 "20080092912 "20100200008 "D590991 "20090272379 "7726320 "20070267031 "20100200006 "D613904 "4969476 "20110192399 "20050016550 "20060196518 "20080276947 "20090095311 "20090126745 "D590989 "20100242974 "5249586 "5865185 "20080247892 "20100031968 "20080276947 "20110277760 "4284089 "4945929 "4966171 "5115820").PN.					
L203	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/07/25 10:51 AM
L204	33	("20070267031 "2008092912 "20080230052 "20080247892 "20080257367 "20080276947 "20090095311 "20090126745 "20100031968 "20100037903 "20100200006 "2010020008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L205	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L206	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L207	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L208	5052	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L209	4261	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L210	59	L208 and L209	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L211	1499	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L212	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L213	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L214	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L215	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L216	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L217	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L218	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L219	146	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L220	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L221	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L222	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L223	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L224	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L225	32204	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L226	32204	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L227	1620	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L228	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L229	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L230	68328	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L231	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L232	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L233	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L234	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L235	7197	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L236	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L237	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L238	6451	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L239	8906	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L240	13008	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L241	58	L240 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L242	9	L241 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L243	15	L241 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L244	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" "	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L245	6	4969476 "5050621 "5115820 "5249586 "5865185 "7412259 "7726320 "8156944").PN. L244 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L246	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L247	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L248	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L249	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L250	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L251	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L252	3	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L253	33	("20070267031 "2008092912 "20080230052 "20080247892 "20080257367 "20080276947 "20090095311 "20090126745 "20100031968 "20100037903 "20100200006 "2010020008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L254	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L255	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L256	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L257	5052	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L258	4261	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/08/20 01:49 PM

L259	59	L257 and L258	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L260	1499	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L261	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L262	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L263	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L264	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L265	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L266	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L267	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L268	146	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L269	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L270	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L271	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L272	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L273	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L274	32204	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L275	32204	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L276	1620	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/08/20 01:49 PM

L277	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L278	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L279	68328	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L280	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L281	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L282	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L283	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L284	7197	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L285	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L286	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L287	6451	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L288	8906	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L289	13008	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L290	58	L289 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L291	9	L290 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L292	15	L290 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L293	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L294	6	0 "3200819 "4284089" "4945929 "4966171" 4969476 "5050621 "5 115820 "5249586 "58 65185 "7412259 "772 6320 "8156944").PN. L293 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L295	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L296	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L297	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L298	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L299	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L300	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L301	82	("3200819 "201000319 68 "8156944 "200802 30052 "20100037903" "20100242974 "D5909 88 "D590990 "741225 9 "20050016550 "783 2410 "D613903 "2008 0257367 "2010020000 6 "20110011396 "201 10277757 "7726320" 3200819 "2008025736 7 "20080092912 "200 80230052 "201002000 08 "5050621 "200601 96518 "20080092912" "20100200008 "D5909 91 "20090272379 "77 26320 "20070267031" "20100200006 "D6139 04 "4969476 "201101 92399 "20050016550" "20060196518 "20080 276947 "20090095311 "20090126745 "D590 989 "20100242974 "5 249586 "5865185 "20 080247892 "20100031 968 "20080276947 "2 0110277760 "4284089 "4945929 "4966171"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

		5115820").PN.					
L302	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L303	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L304	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L305	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L306	5052	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L307	4261	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L308	59	L306 and L307	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L309	1499	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L310	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L311	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L312	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L313	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L314	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L315	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L316	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2016/08/20 01:49 PM

L317	146	"392"/\$.ccls. and photovoltaic	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L318	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L319	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L320	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L321	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L322	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L323	32204	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L324	32204	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L325	1620	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L326	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L327	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L328	68328	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L329	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L330	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L331	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L332	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L333	7197	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L334	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2016/08/20

L335	0	(A24F47/10).IPCR.	USOCR; EPO; JPO; DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	01:49 PM 2016/08/20 01:49 PM
L336	6451	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L337	8906	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L338	13008	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L339	58	L338 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L340	9	L339 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L341	15	L339 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L342	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" "4 969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L343	6	L342 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L344	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L345	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L346	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L347	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L348	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L349	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L350	3	"13594813"	(US-PGPUB; USPAT; DERWENT)	OR	OFF	OFF	2016/08/20

L351	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	01:49 PM 2016/08/20 01:49 PM
L352	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L353	3	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L354	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L355	5052	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L356	4261	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L357	59	L355 and L356	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L358	1499	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L359	3	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L360	16	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L361	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L362	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L363	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L364	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L365	432	vaporizer and	(US-PGPUB; USPAT;	OR	OFF	OFF	2016/08/20

		photovoltaic	EPO; JPO; DERWENT)				01:49 PM
L366	146	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L367	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L368	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L369	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L370	1	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L371	7	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L372	32204	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L373	32204	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L374	1620	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L375	226	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L376	2	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L377	68328	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L378	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L379	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L380	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L381	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L382	7197	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM

L383	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L384	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L385	6451	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L386	8906	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L387	13008	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2016/08/20 01:49 PM
L388	58	L387 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L389	9	L388 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L390	15	L388 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L391	49	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L392	6	L391 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L393	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L394	1	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:49 PM
L395	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L396	432	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L397	9	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L398	340	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM

L399	82	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L400	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2016/08/20 01:49 PM
L401	1	("2015/0020833").URP N.	(USPAT)	OR	OFF	OFF	2016/08/20 01:59 PM
L403	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L404	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L405	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L406	3	"20090272379"	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

L407	6117	cigarette and generator	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:55 PM 2019/02/18 06:55 PM
L408	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L409	200	L407 and L408	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L410	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L411	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L412	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L413	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:55 PM
L414	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:55 PM
L415	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L416	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L417	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L418	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L419	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L420	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L421	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L422	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L423	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L424	38924	vaporizer or (air adj	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

L425	38924	freshener) and solar vaporizer or ((air adj freshener) and solar	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:55 PM 2019/02/18 06:55 PM
L426	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L427	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L428	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:55 PM
L429	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L430	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L431	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L432	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L433	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L434	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L435	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L436	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L437	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L438	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L439	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:55 PM
L440	100	L439 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L441	12	L440 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM

L442	17	L440 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L443	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L444	6	L443 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:55 PM
L445	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:55 PM
L446	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L447	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L448	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L449	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L450	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L451	4	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L452	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L453	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L454	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM

L455	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L456	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L457	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L458	200	L456 and L457	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L459	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L460	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L461	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L462	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L463	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L464	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L465	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L466	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L467	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L468	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L469	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L470	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L471	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L472	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM

L473	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L474	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L475	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L476	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L477	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L478	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L479	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L480	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L481	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L482	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L483	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L484	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L485	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L486	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L487	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L488	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L489	100	L488 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L490	12	L489 and breath	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2019/02/18 06:56 PM

L491	17	L489 and generator	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L492	50	("20050016550" "20060 196518" "20110011396 "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L493	6	L492 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L494	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L495	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L496	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L497	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L498	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L499	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L500	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " 20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" " 20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" " 20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" " 20060196518" "20080	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM

L501	33	276947 "20090095311 "20090126745 "D590 989 "20100242974 "5 249586 "5865185 "20 080247892 "20100031 968 "20080276947 "2 0110277760 "4284089 "4945929 "4966171 "5 115820").PN. ("20070267031 "20080 092912 "20080230052 "20080247892 "2008 0257367 "2008027694 7 "20090095311 "200 90126745 "201000319 68 "20100037903 "20 100200006 "20100200 008 "20100242974 "7 832410 "D590988 "D5 90989 "D590990 "D59 0991 "D613903 "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L502	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L503	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L504	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L505	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L506	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L507	200	L505 and L506	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L508	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L509	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L510	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L511	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L512	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM

L513	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L514	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L515	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L516	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L517	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L518	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L519	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L520	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L521	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L522	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L523	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L524	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L525	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L526	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L527	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L528	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L529	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L530	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2019/02/18 06:56 PM

L531	0	(a24f47/08).IPCR.	DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L532	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L533	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L534	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L535	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L536	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L537	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L538	100	L537 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L539	12	L538 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L540	17	L538 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L541	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L542	6	L541 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L543	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L544	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L545	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L546	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2019/02/18 06:56 PM

L547	71	e-cigarette and solar	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L548	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L549	4	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L550	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L551	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L552	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L553	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L554	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L555	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L556	200	L554 and L555	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L557	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L558	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L559	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L560	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L561	2	("2008/0303286").URP	(USPAT)	OR	OFF	OFF	2019/02/18

L562	9	N. miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:56 PM 2019/02/18 06:56 PM
L563	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L564	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L565	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L566	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L567	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L568	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L569	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L570	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L571	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L572	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L573	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L574	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L575	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L576	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L577	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L578	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L579	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2019/02/18

L580	0	(a24f47/08).IPCR.	USOCR; EPO; JPO; DERWENT)	OR	ON	ON	06:56 PM
L581	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L582	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L583	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L584	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L585	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L586	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L587	100	L586 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L588	12	L587 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L589	17	L587 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L590	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L591	6	L590 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L592	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L593	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L594	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L595	700	vaporizer and	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

L596	71	photovoltaic e-cigarette and solar	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:56 PM 2019/02/18 06:56 PM
L597	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L598	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " "20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" " "20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" " "20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" " "20060196518" "20080 276947" "20090095311 " "20090126745" "D590 989" "20100242974" "5 249586" "5865185" "20 080247892" "20100031 968" "20080276947" "2 0110277760" "4284089 " "4945929" "4966171" " 5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L599	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L600	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L601	4	"12843917"	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

L602	4	"12843917"	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:56 PM 2019/02/18 06:56 PM
L603	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L604	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L605	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L606	200	L604 and L605	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L607	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L608	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L609	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L610	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L611	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L612	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L613	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L614	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L615	152	"392"\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L616	4	"392"\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L617	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L618	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L619	6	e-cigarette and	(US-PGPUB; USPAT;	OR	OFF	OFF	2019/02/18

		photovoltaic	EPO; JPO; DERWENT)				06:56 PM
L620	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L621	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L622	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L623	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L624	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L625	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L626	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L627	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L628	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L629	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L630	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L631	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L632	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L633	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L634	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L635	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM
L636	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:56 PM

L637	100	L636 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L638	12	L637 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L639	17	L637 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L640	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L641	6	L640 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L642	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L643	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:56 PM
L644	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L645	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L646	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L647	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L648	4	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L649	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM

L650	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:56 PM
L651	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L652	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L653	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L654	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L655	200	L653 and L654	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L656	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L657	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L658	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L659	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L660	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L661	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L662	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L663	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L664	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L665	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L666	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L667	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM

L668	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L669	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L670	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L671	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L672	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L673	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L674	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L675	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L676	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L677	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L678	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L679	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L680	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L681	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L682	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L683	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L684	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L685	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2019/02/18 06:57 PM

L686	100	L685 and "392"/\$.cccls.	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L687	12	L686 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L688	17	L686 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L689	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L690	6	L689 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L691	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L692	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L693	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L694	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L695	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L696	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L697	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " 20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" "	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM

L698	33	"20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L699	4	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L700	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L701	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L702	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L703	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L704	200	L702 and L703	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L705	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L706	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L707	19	miniature adj electrical	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM

		adj generator	EPO; JPO; DERWENT)				06:57 PM
L708	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L709	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L710	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L711	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L712	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L713	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L714	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L715	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L716	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L717	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L718	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L719	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L720	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L721	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L722	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L723	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L724	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L725	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2019/02/18 06:57 PM

L726	0	(a24f047/008).IPCR.	DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L727	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L728	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L729	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L730	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L731	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L732	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L733	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L734	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L735	100	L734 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L736	12	L735 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L737	17	L735 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L738	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L739	6	L738 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L740	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L741	2	("2008/0303286").URP	(USPAT)	OR	OFF	OFF	2019/02/18

L742	0	N. miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	06:57 PM 2019/02/18 06:57 PM
L743	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L744	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L745	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L746	4	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L747	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L748	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L749	4	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L750	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L751	6117	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L752	5386	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L753	200	L751 and L752	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L754	1870	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L755	6	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM

L756	19	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L757	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L758	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L759	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L760	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L761	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L762	152	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L763	4	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L764	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L765	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L766	6	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L767	129	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L768	38924	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L769	38924	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L770	2105	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L771	306	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L772	4	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L773	92996	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L774	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2019/02/18

L775	0	(a24f047/008).IPCR.	USOCR; EPO; JPO; DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	06:57 PM 2019/02/18 06:57 PM
L776	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L777	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L778	9559	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L779	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L780	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L781	7167	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L782	17594	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L783	15977	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/02/18 06:57 PM
L784	100	L783 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L785	12	L784 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L786	17	L784 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L787	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L788	6	L787 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L789	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM

L790	2	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L791	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L792	700	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L793	71	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L794	1314	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L795	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" "20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" " 20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" " 20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" " 20060196518" "20080 276947" "20090095311 " "20090126745" "D590 989" "20100242974" "5 249586" "5865185" "20 080247892" "20100031 968" "20080276947" "2 0110277760" "4284089 " "4945929" "4966171" " 5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L796	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2019/02/18 06:57 PM
L797	16	("2015/0020833").URP N.	(USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
L799	1	"15377522"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/02/18 09:03 PM
L800	113	("20050016550" "20060 196518" "20070267031 " "20080073443" "2008	(US-PGPUB; USPAT)	OR	ON	ON	2019/02/18 09:03 PM

		0092912 "2008023005 2 "20080247892 "200 80257367 "200802769 47 "20080303286 "20 090095311 "20090126 745 "20090272379 "2 0100031968 "2010003 7903 "20100200006 "2 20100200008 "201002 42974 "20110011396 "2 20110192399 "20110 277757 "20110277760 "20110304282 "2012 0285475 "2013030910 2 "20130312739 "201 40020696 "201400605 28 "20140069444 "20 140096781 "20140096 782 "20140150783 "2 0140150784 "2014019 0478 "20140190502 "2 20140253144 "201402 61495 "20140305450 "2 20150065929 "20150 078735 "20150090281 "20150128966 "2015 0189916 "2015021543 9 "20150258289 "201 50296885 "201603743 92 "3200819 "428408 9 "4945929 "4966171" "4969476 "5050621 "5 5115820 "5249586 "5 865185 "5878752 "61 96218 "6443146 "741 2259 "7581540 "7726 320 "7832410 "78326 55 "7984684 "815694 4 "8603397 "8689805" "8794231 "8863753 "8 8897628 "8961492 "8 997753 "8997754 "90 04073 "9095175 "914 8009 "9197726 "9204 670 "9259035 "93015 48 "9301549 "933278 7 "9352288 "9364024" "9364025 "9417107 "9 9427711 "9486014 "9 532597 "9532604 "95 55203 "9597466 "960 2646 "9609893 "D590 988 "D590989 "D5909 90 "D590991 "D61390 3 "D613904 "D749505 "D750320 "D752278" "D752280 "D752272" D763502 "D767820 "					
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L801	3	D767822 "D776869 "D779725 "D780993 "D782108").PN. "16451483"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 12:59 PM
L802	123469	(A61M11/042 A24F40/44 A24F40/42 A61M15/06 H05B1/0244 A24F40/10 A61M16/0066 A61M2016/0024 A61M2016/0027 A61M2016/0039 A61M2205/13 A61M2205/3653 A61M2205/50 A61M2205/6054 A61M2205/8206 A61M2205/825 H05B2203/021).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:01 PM
L803	1008	L802 and (coil element) same transverse	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:03 PM
L804	430	L802 and (coil element) same transverse and longitudinal near axis	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:03 PM
L805	224	L804 and cigarette	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:04 PM
L806	127	("1968509 "6155268 "6598607 "0000024 "0000001 "0000004 "0000020 "0000023 "0000604 "0000026 "20090272379 "20140060554 "4284089 "5249586 "8910639 "20050016550 "20060196518 "20070267031 "20080073443 "20080092912 "20080230052 "20080247892 "20080257367 "20080276947 "20080303286 "20090095311 "20090126745 "2010031968 "20100037903 "20100200006 "20100200008 "20100242974 "20110011396 "20110192399 "20110277757 "20110277760 "20110304282 "20120285475 "20130309102 "20130312739 "20140020696 "20140060528 "	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/09 01:06 PM

		20140069444 "20140096781 "20140096782 "20140150783 "20140150784 "20140190478 "20140190502 "20140253144 "20140261495 "20140305450 "20150065929 "20150078735 "20150090281 "20150128966 "20150189916 "20150215439 "20150258289 "20150296885 "20160374392 "2016057353 "20160819945929 "20160947874 "20160966171 "20160969476 "2016096621 "2016095115820 "2016095185 "2016095878752 "2016095185 "2016096443146 "2016095185 "2016097581540 "2016097726320 "2016097832410 "2016097832655 "2016097984684 "2016098156944 "2016098603397 "2016098689805 "201609894231 "2016098863753 "201609897628 "2016098961492 "201609897753 "2016098997754 "2016099004073 "2016099095175 "2016099197726 "2016099204670 "2016099259035 "2016099301548 "2016099301549 "2016099332787 "2016099352288 "2016099364024 "201609964025 "2016099417107 "20160997711 "2016099486014 "2016099532597 "2016099532604 "2016099555203 "2016099597466 "2016099602646 "2016099609893 "2016099D590988 "2016099D590989 "2016099D590990 "2016099D590991 "2016099D613903 "2016099D613904 "2016099D749505 "2016099D750320 "2016099D752278 "2016099D752280 "2016099D752727 "2016099D763502 "2016099D767820 "2016099D767822 "2016099D776869 "2016099D779725 "2016099D780993 "2016099D782108").PN.					
L807	50123	cox.in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:13 PM
L808	255	L807 and L802	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:13 PM
L809	125802	@PD>="20090106"<="20090113"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:38 PM
L810	123469	(A61M11/042 A24F40/44 A24F40/42 A61M15/06	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:40 PM

		H05B1/0244 A24F40/10 A61M16/0066 A61M2016/0024 A61M2016/0027 A61M2016/0039 A61M2205/13 A61M2205/3653 A61M2205/50 A61M2205/6054 A61M2205/8206 A61M2205/825 H05B2203/021).cpc.					
L811	102145	L810 and @PD>="20090726"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:40 PM
L812	22684	L810 and @PD<="20090726"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:41 PM
L813	430	L810 and (coil element) same transverse and longitudinal near axis	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:43 PM
L814	40	L812 and L813	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:43 PM
L815	8424	L810 and (coil element) and cigarette	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:44 PM
L816	197	L815 and L812	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:44 PM
L817	6822	L810 and (coil element) and cigarette and liquid	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:46 PM
L818	122	L817 and L812	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 01:46 PM
L819	401	("2009/0095311").URP N.	(USPAT)	OR	ON	ON	2022/03/09 02:07 PM
L820	277	("1775947" "20030108342" "20040261802" "20050016550" "20050236006" "20060196518" "20070267031" "20080276947" "20090095311" "20090126745" "20090151717" "20090188490" "20090230117" "20090260642" "20090272379" "20100031968" "20100126505"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 02:08 PM

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L825	14	((("Conley") near3 ("Gregory") near3 ("D"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 03:24 PM
L826	838	((("Han") near3 ("Li"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 03:25 PM
L827	4	L826 and cigarette and liquid	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 03:26 PM
L828	151	((("Hon") near3 ("Lik"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/03/09 03:27 PM
L829	142	L828 and cigarette and liquid	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 03:27 PM
L830	7	L828 and @PD<="20090726"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/09 03:27 PM
L831	416	("2009/0126745").URP	(USPAT)	OR	ON	ON	2022/03/09

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L838	29	(Artificial Intelligence) More like doc: US-9022026-B2 Text: (US-20110011396-A1 OR US-20150305405- A1 OR US-10357623- B2 OR US- 20160353803-A1 OR US-9427536-B2 OR US-20220016367-A1 OR US-20190282770- A1 OR US-11123503- B2 OR CN-101606758- B OR CN-101606758-A	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2022/09/01 09:01 AM

L839	40	<p>OR US-20150272217-A1 OR EP-3123878-A1 OR US-9770054-B2 OR EP-3123878-B1 OR US-20160113325-A1 OR US-20140290677-A1 OR WO-2015143662-A1 OR US-9402421-B2 OR US-20140299140-A1 OR US-9420831-B2).did.</p> <p>(Artificial Intelligence) More like doc: US-20160113325-A1</p> <p>Text: (WO-2014134778-A1 OR US-20150128970-A1 OR WO-2014146232-A1 OR US-20150150307-A1 OR US-20150189919-A1 OR US-20150181941-A1 OR US-9901120-B2 OR US-9901119-B2 OR US-20160205999-A1 OR US-20150189918-A1 OR US-20140290677-A1 OR EP-2984947-A1 OR CN-204292194-U OR EP-2984947-B1 OR US-20140360516-A1 OR WO-2015066927-A1 OR US-20140190478-A1 OR US-20150296884-A1 OR US-20160270442-A1 OR WO-2015070532-A1).did.</p>	IBM_TDB)	OR	ON	ON	2022/09/01 09:05 AM
L840	48	<p>(Artificial Intelligence) More like doc: WO-2014101129-A1</p> <p>Text: (WO-2014101123-A1 OR US-20150296884-A1 OR US-9603387-B2 OR WO-2014101118-A1 OR WO-2014134779-A1 OR WO-2014101114-A1 OR WO-2014146232-A1 OR WO-2014134778-A1 OR WO-2014166079-A1 OR WO-2014153782-</p>	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/01 09:07 AM

L841	33	A1 OR WO-2014201602-A1 OR WO-2014089945-A1 OR US-9723872-B2 OR JP-2017518761-A OR US-20140182611-A1 OR JP-6371868-B2 OR US-20140246031-A1 OR US-9901119-B2 OR WO-2014106329-A1 OR WO-2014166034-A1).did. ("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
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L843	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L844	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L845	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L846	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L847	443	L6 and L7	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L848	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L849	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L850	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
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L853	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L854	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L855	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L856	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L857	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L858	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L859	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L860	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L861	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L862	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L863	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L864	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L865	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
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L874	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L875	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L876	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L877	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L878	0	L38 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L879	0	L39 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L880	0	L39 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L881	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L882	6	L42 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L883	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L884	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L885	3	("2008/0303286").URP	(USPAT)	OR	OFF	OFF	2022/09/28

L886	3	N. ("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	12:37 PM 2022/09/28
L887	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L888	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L889	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L890	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L891	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L892	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L893	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L894	6	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L895	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L896	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L897	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L898	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L899	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28
L900	7225	vaporizer and generator	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/09/28

L901	443	L60 and L61	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L902	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L903	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L904	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L905	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L906	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L907	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L908	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L909	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L910	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L911	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L912	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L913	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L914	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L915	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L916	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L917	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L918	2902	(vaporizer or (air adj	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/09/28

L919	429	freshener)) and solar (vaporizer or (air adj freshener)) and solar and photovoltaic	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L920	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L921	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L922	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L923	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L924	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L925	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L926	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L927	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L928	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L929	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L930	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L931	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L932	0	L92 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L933	0	L93 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L934	0	L93 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L935	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L936	6	0277757 "2011027776 0 "3200819 "4284089" "4945929 "4966171 "4969476 "5050621 "5115820 "5249586 "5865185 "7412259 "7726320 "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L937	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L938	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L939	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L940	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L941	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L942	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L943	83	("3200819 "20100031968 "8156944 "20080230052 "20100037903 "20100242974 "D590988 "D590990 "7412259 "20050016550 "7832410 "D613903 "20080257367 "20100200006 "20110011396 "20110277757 "7726320 "3200819 "20080257367 "20080092912 "20080230052 "20100200008 "5050621 "20060196518 "20080092912 "20100200008 "D590991 "20090272379 "7726320 "20070267031 "20100200006 "D613904 "4969476 "20110192399 "20050016550 "20060196518 "20080276947 "20090095311 "20090126745 "D590989 "20100242974 "5249586 "5865185 "20080247892 "20100031968 "20080276947 "20110277760 "4284089	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L944	33	" 4945929 "4966171 "5115820").PN. ("20070267031 "2008092912 "20080230052 "20080247892 "20080257367 "20080276947 "20090095311 "20090126745 "20100031968 "20100037903 "20100200006 "2010020008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L945	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L946	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L947	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L948	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L949	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L950	443	L109 and L110	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L951	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L952	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L953	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L954	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L955	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L956	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L957	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L958	996	vaporizer and	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/09/28

		photovoltaic	EPO; JPO; DERWENT)				12:37 PM
L959	0	"392"\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L960	0	"392"\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L961	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L962	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L963	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L964	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L965	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L966	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L967	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L968	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L969	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L970	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L971	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L972	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L973	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L974	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L975	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM

L976	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L977	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L978	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L979	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L980	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L981	0	L141 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L982	0	L142 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L983	0	L142 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L984	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L985	6	L145 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L986	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L987	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L988	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L989	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L990	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L991	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L992	6	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L993	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L994	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L995	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L996	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L997	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L998	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L999	443	L158 and L159	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1000	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1001	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1002	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1003	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1004	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1005	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1006	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1007	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1008	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1009	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1010	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1011	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1012	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1013	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1014	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1015	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1016	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1017	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1018	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1019	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1020	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1021	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1022	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1023	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1024	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2022/09/28 12:37 PM

L1025	0	(A24F47/08).IPCR.	DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1026	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1027	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1028	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1029	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1030	0	L190 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1031	0	L191 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1032	0	L191 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1033	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1034	6	L194 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1035	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1036	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1037	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1038	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1039	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1040	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2022/09/28 12:37 PM

L1041	83	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1042	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1043	33	("20070267031" "20080092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "20100200008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1044	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1045	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1046	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2022/09/28 12:37 PM

L1047	8399	cigarette and generator	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1048	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1049	443	L208 and L209	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1050	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1051	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1052	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1053	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1054	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1055	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1056	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1057	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1058	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1059	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1060	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1061	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1062	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1063	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1064	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2022/09/28 12:37 PM

L1065	50909	vaporizer or ((air adj freshener) and solar	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1066	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1067	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1068	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1069	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1070	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1071	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1072	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1073	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1074	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1075	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1076	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1077	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1078	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1079	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1080	0	L240 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1081	0	L241 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1082	0	L241 and generator	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/09/28

L1083	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L1084	6	L244 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1085	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1086	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1087	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1088	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1089	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1090	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1091	6	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1092	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1093	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1094	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1095	3	"20090272379"	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/09/28

L1096	8399	cigarette and generator	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L1097	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1098	443	L257 and L258	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1099	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1100	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1101	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1102	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1103	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1104	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1105	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1106	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1107	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1108	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1109	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1110	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1111	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1112	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1113	50909	vaporizer or (air adj	(US-PGPUB; USPAT; DERWENT)	OR	OFF	OFF	2022/09/28

L1114	50909	freshener) and solar vaporizer or ((air adj freshener) and solar	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L1115	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1116	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1117	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1118	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1119	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1120	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1121	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1122	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1123	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1124	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1125	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1126	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1127	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1128	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1129	0	L289 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1130	0	L290 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1131	0	L290 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1132	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1133	6	L293 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1134	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1135	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1136	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1137	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1138	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1139	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1140	83	("3200819" "20100031968" "8156944" "20080230052" "20100037903" "20100242974" "D590988" "D590990" "7412259" "20050016550" "7832410" "D613903" "20080257367" "20100200006" "20110011396" "20110277757" "7726320" "3200819" "20080257367" "20080092912" "20080230052" "20100200008" "5050621" "20060196518" "20080092912" "20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1141	33	" 20090126745 "D590989 "20100242974 "5249586 "5865185 "20080247892 "20100031968 "20080276947 "20110277760 "4284089 "4945929 "4966171 "5115820").PN. ("20070267031 "2008092912 "20080230052 "20080247892 "20080257367 "20080276947 "20090095311 "20090126745 "20100031968 "20100037903 "20100200006 "2010020008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1142	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1143	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1144	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1145	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1146	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1147	443	L306 and L307	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1148	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1149	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1150	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1151	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1152	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1153	9	miniature adj turbine and electrical adj	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2022/09/28 12:37 PM

L1154	0	generator miniature adj turbine same electrical adj generator	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1155	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1156	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1157	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1158	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1159	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1160	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1161	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1162	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1163	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1164	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1165	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1166	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1167	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1168	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1169	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1170	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1171	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT;	OR	ON	ON	2022/09/28

L1172	10571	(B60H1/22).IPCR.	USOCR; EPO; JPO; DERWENT)	OR	ON	ON	12:37 PM
L1173	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1174	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1175	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1176	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1177	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1178	0	L338 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1179	0	L339 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1180	0	L339 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1181	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1182	6	L342 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1183	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1184	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1185	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1186	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1187	143	e-cigarette and solar	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/09/28

L1188	3506	e-cigarette	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L1189	6	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1190	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1191	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1192	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1193	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1194	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1195	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1196	443	L355 and L356	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1197	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1198	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1199	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1200	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1201	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1202	9	miniature adj turbine	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28

L1203	0	and electrical adj generator miniature adj turbine same electrical adj generator	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L1204	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1205	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1206	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1207	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1208	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1209	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1210	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1211	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1212	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1213	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1214	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1215	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1216	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1217	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1218	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1219	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM

L1220	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1221	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1222	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1223	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1224	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1225	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1226	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1227	0	L387 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1228	0	L388 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1229	0	L388 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1230	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1231	6	L391 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1232	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1233	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1234	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1235	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1236	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1237	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1238	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" "20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" "20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" "20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" "20060196518" "20080 276947" "20090095311 " "20090126745" "D590 989" "20100242974" "5 249586" "5865185" "20 080247892" "20100031 968" "20080276947" "2 0110277760" "4284089 " "4945929" "4966171" " 5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1239	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1240	41	("2015/0020833").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1241	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7 832410" "D590988" "D5 90989" "D590990" "D59 0991" "D613903" "D613 904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1242	6	"12843917"	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/09/28

L1243	6	"12843917"	EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM
L1244	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1245	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1246	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1247	443	L407 and L408	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1248	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1249	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1250	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1251	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1252	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1253	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1254	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1255	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1256	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1257	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1258	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1259	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1260	17	e-cigarette and	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/09/28

		photovoltaic	EPO; JPO; DERWENT)				12:37 PM
L1261	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1262	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1263	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1264	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1265	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1266	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1267	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1268	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1269	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1270	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1271	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1272	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1273	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1274	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1275	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1276	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1277	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM

L1278	0	L439 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1279	0	L440 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1280	0	L440 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1281	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1282	6	L443 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1283	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1284	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1285	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1286	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1287	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1288	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1289	6	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1290	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1291	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1292	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1293	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1294	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1295	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1296	443	L456 and L457	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1297	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1298	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1299	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1300	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1301	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1302	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1303	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1304	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1305	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1306	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1307	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1308	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1309	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1310	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1311	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1312	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1313	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1314	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1315	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1316	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1317	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1318	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1319	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1320	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1321	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1322	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1323	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1324	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1325	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1326	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2022/09/28 12:37 PM

L1327	0	L488 and "392"/\$.cccls.	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1328	0	L489 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1329	0	L489 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1330	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1331	6	L492 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1332	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1333	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1334	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1335	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1336	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1337	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1338	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " 20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" "	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

		"20100200008" "D590991" "20090272379" "7726320" "20070267031" "20100200006" "D613904" "4969476" "20110192399" "20050016550" "20060196518" "20080276947" "20090095311" "20090126745" "D590989" "20100242974" "5249586" "5865185" "20080247892" "20100031968" "20080276947" "20110277760" "4284089" "4945929" "4966171" "5115820").PN.					
L1339	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1340	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1341	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1342	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1343	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1344	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1345	443	L505 and L506	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1346	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1347	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1348	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2022/09/28 12:37 PM

L1349	3	("2008/0303286").URP N.	DERWENT) (USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1350	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1351	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1352	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1353	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1354	0	"392"\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1355	0	"392"\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1356	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1357	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1358	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1359	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1360	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1361	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1362	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1363	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1364	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1365	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1366	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM

L1367	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1368	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1369	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1370	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1371	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1372	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1373	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1374	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1375	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1376	0	L537 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1377	0	L538 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1378	0	L538 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1379	50	("20050016550" "20060196518" "20110011396" "20110192399" "20110277757" "20110277760" "3200819" "4284089" "4945929" "4966171" "4969476" "5050621" "5115820" "5249586" "5865185" "7412259" "7726320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1380	6	L541 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1381	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1382	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1383	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1384	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1385	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1386	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1387	6	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1388	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1389	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1390	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1391	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1392	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1393	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1394	443	L554 and L555	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1395	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1396	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1397	26	miniature adj electrical	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1398	3	adj generator ("2008/0303286").URP N.	EPO; JPO; DERWENT) (USPAT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L1399	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1400	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1401	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1402	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1403	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1404	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1405	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1406	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1407	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1408	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1409	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1410	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1411	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1412	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1413	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1414	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1415	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2022/09/28 12:37 PM

L1416	0	(a24f047/008).IPCR.	DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1417	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1418	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1419	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1420	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1421	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1422	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1423	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1424	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1425	0	L586 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1426	0	L587 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1427	0	L587 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1428	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1429	6	L590 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1430	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1431	3	("2008/0303286").URP	(USPAT)	OR	OFF	OFF	2022/09/28

L1432	0	N. miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L1433	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1434	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1435	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1436	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " "20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000 6" "20110011396" "201 10277757" "7726320" " 3200819" "2008025736 7" "20080092912" "200 80230052" "201002000 08" "5050621" "200601 96518" "20080092912" " "20100200008" "D5909 91" "20090272379" "77 26320" "20070267031" " "20100200006" "D6139 04" "4969476" "201101 92399" "20050016550" " "20060196518" "20080 276947" "20090095311 " "20090126745" "D590 989" "20100242974" "5 249586" "5865185" "20 080247892" "20100031 968" "20080276947" "2 0110277760" "4284089 " "4945929" "4966171" " 5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1437	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1438	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20 100200006" "20100200 008" "20100242974" "7	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1439	6	832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN. "12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1440	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1441	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1442	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1443	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1444	443	L604 and L605	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1445	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1446	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1447	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1448	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1449	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1450	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1451	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1452	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1453	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1454	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1455	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO;	OR	OFF	OFF	2022/09/28 12:37 PM

L1456	3506	e-cigarette	DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1457	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1458	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1459	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1460	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1461	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1462	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1463	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1464	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1465	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1466	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1467	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1468	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1469	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1470	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1471	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1472	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1473	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; DERWENT)	OR	ON	ON	2022/09/28

L1474	20013	(a61m15/00).IPCR.	USOCR; EPO; JPO; DERWENT)	OR	ON	ON	12:37 PM
L1475	0	L636 and "392"/\$.ccls.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1476	0	L637 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1477	0	L637 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1478	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1479	6	L640 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1480	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1481	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1482	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1483	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1484	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1485	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1486	6	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1487	33	("20070267031" "20080 092912" "20080230052 " "20080247892" "2008 0257367" "2008027694 7" "20090095311" "200 90126745" "201000319 68" "20100037903" "20	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1488	6	100200006 "2010020008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN. "12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1489	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1490	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1491	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1492	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1493	443	L653 and L654	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1494	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1495	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1496	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1497	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1498	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1499	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1500	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1501	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1502	0	"392"\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1503	0	"392"\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1504	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1505	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1506	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1507	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1508	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1509	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1510	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1511	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1512	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1513	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1514	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1515	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1516	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1517	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1518	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1519	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1520	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1521	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2022/09/28 12:37 PM

L1522	26490	(a24f47/00).IPCR.	DERWENT) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1523	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1524	0	L685 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1525	0	L686 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1526	0	L686 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1527	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1528	6	L689 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1529	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1530	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1531	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1532	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1533	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1534	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1535	83	("3200819" "201000319 68" "8156944" "200802 30052" "20100037903" " 20100242974" "D5909 88" "D590990" "741225 9" "20050016550" "783 2410" "D613903" "2008 0257367" "2010020000	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

		6 "20110011396 "20110277757 "7726320 "3200819 "20080257367 "20080092912 "20080230052 "20100200008 "5050621 "20060196518 "20080092912 "20100200008 "D590991 "20090272379 "7726320 "20070267031 "20100200006 "D613904 "4969476 "20110192399 "20050016550 "20060196518 "20080276947 "20090095311 "20090126745 "D590989 "20100242974 "5249586 "5865185 "20080247892 "20100031968 "20080276947 "20110277760 "4284089 "4945929 "4966171 "5115820").PN.					
L1536	33	("20070267031 "20080092912 "20080230052 "20080247892 "20080257367 "20080276947 "20090095311 "20090126745 "20100031968 "20100037903 "20100200006 "20100200008 "20100242974 "7832410 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1537	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1538	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1539	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1540	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1541	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1542	443	L702 and L703	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1543	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1544	10	electrical adj generator same breath	EPO; JPO; DERWENT) (US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L1545	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1546	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1547	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1548	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1549	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1550	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1551	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1552	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1553	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1554	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1555	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1556	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1557	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1558	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1559	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1560	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1561	6	("2013/0309102").URP	(USPAT)	OR	OFF	OFF	2022/09/28

L1562	750079	N. a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	12:37 PM 2022/09/28 12:37 PM
L1563	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1564	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1565	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1566	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1567	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1568	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1569	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1570	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1571	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1572	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1573	0	L734 and "392"/\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1574	0	L735 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1575	0	L735 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1576	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772 6320" "8156944").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1577	6	L738 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1578	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1579	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1580	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1581	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1582	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1583	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1584	6	"13594813"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1585	33	("20070267031" "2008092912" "20080230052" "20080247892" "20080257367" "20080276947" "20090095311" "20090126745" "20100031968" "20100037903" "20100200006" "2010020008" "20100242974" "7832410" "D590988" "D590989" "D590990" "D590991" "D613903" "D613904").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1586	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1587	6	"12843917"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1588	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1589	8399	cigarette and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1590	7225	vaporizer and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1591	443	L751 and L752	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1592	2701	generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1593	10	electrical adj generator same breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1594	26	miniature adj electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1595	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1596	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1597	9	miniature adj turbine and electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1598	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1599	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1600	0	"392"/\$.ccls. and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1601	0	"392"/\$.ccls. and photovoltaic and cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1602	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1603	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1604	17	e-cigarette and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1605	185	e-cigarette and photo	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1606	50909	vaporizer or (air adj freshener) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1607	50909	vaporizer or ((air adj freshener) and solar)	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1608	2902	(vaporizer or (air adj freshener)) and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1609	429	(vaporizer or (air adj freshener)) and solar and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1610	6	("2013/0309102").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1611	750079	a01b 12/006	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1612	0	(a24f47/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1613	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1614	0	(a24f047/008).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1615	0	(a24f47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1616	10571	(B60H1/22).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1617	0	(A24F47/08).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1618	0	(A24F47/10).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1619	7658	(f24h3/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1620	26490	(a24f47/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1621	20013	(a61m15/00).IPCR.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1622	0	L783 and "392"\$.ccls.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1623	0	L784 and breath	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1624	0	L784 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1625	50	("20050016550" "20060 196518" "20110011396 " "20110192399" "2011 0277757" "2011027776 0" "3200819" "4284089" "4945929" "4966171" " 4969476" "5050621" "5 115820" "5249586" "58 65185" "7412259" "772	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM

L1626	6	6320 "8156944").PN. L787 and generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1627	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1628	3	("2008/0303286").URP N.	(USPAT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1629	0	miniature adj turbine same electrical adj generator	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1630	996	vaporizer and photovoltaic	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1631	143	e-cigarette and solar	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1632	3506	e-cigarette	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1633	83	("3200819 "201000319 68 "8156944 "200802 30052 "20100037903" "20100242974 "D5909 88 "D590990 "741225 9 "20050016550 "783 2410 "D613903 "2008 0257367 "2010020000 6 "20110011396 "201 10277757 "7726320" 3200819 "2008025736 7 "20080092912 "200 80230052 "201002000 08 "5050621 "200601 96518 "20080092912" "20100200008 "D5909 91 "20090272379 "77 26320 "20070267031" "20100200006 "D6139 04 "4969476 "201101 92399 "20050016550" "20060196518 "20080 276947 "20090095311 "20090126745 "D590 989 "20100242974 "5 249586 "5865185 "20 080247892 "20100031 968 "20080276947 "2 0110277760 "4284089 "4945929 "4966171" 5115820").PN.	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1634	3	"20090272379"	(US-PGPUB; USPAT; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/09/28 12:37 PM
L1635	41	("2015/0020833").URP	(USPAT)	OR	OFF	OFF	2022/09/28

L1636	2	N. "15377522"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	12:37 PM 2022/09/28 12:37 PM
L1637	113	("20050016550" "20060 196518" "20070267031 " "20080073443" "2008 0092912" "2008023005 2" "20080247892" "200 80257367" "200802769 47" "20080303286" "20 090095311" "20090126 745" "20090272379" "2 0100031968" "2010003 7903" "20100200006" " 20100200008" "201002 42974" "20110011396" " "20110192399" "201110 277757" "20110277760 " "20110304282" "2012 0285475" "2013030910 2" "20130312739" "201 40020696" "201400605 28" "20140069444" "20 140096781" "20140096 782" "20140150783" "2 0140150784" "2014019 0478" "20140190502" "2 0140253144" "201402 61495" "20140305450" " "20150065929" "20150 078735" "20150090281 " "20150128966" "2015 0189916" "2015021543 9" "20150258289" "201 50296885" "201603743 92" "3200819" "428408 9" "4945929" "4966171" "4969476" "5050621" "5 115820" "5249586" "5 865185" "5878752" "61 96218" "6443146" "741 2259" "7581540" "7726 320" "7832410" "78326 55" "7984684" "815694 4" "8603397" "8689805" "8794231" "8863753" "8 8897628" "8961492" "8 997753" "8997754" "90 04073" "9095175" "914 8009" "9197726" "9204 670" "9259035" "93015 48" "9301549" "933278 7" "9352288" "9364024" "9364025" "9417107" "9 9427711" "9486014" "9 532597" "9532604" "95 55203" "9597466" "960	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/28 12:37 PM

L1638	3	2646 "9609893 "D590988 "D590989 "D590990 "D590991 "D613903 "D613904 "D749505 "D750320 "D752278 "D752280 "D752727 "D763502 "D767820 "D767822 "D776869 "D779725 "D780993 "D782108").PN. "16451483"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1639	136231	(A61M11/042 A24F40/44 A24F40/42 A61M15/06 H05B1/0244 A24F40/10 A61M16/0066 A61M2016/0024 A61M2016/0027 A61M2016/0039 A61M2205/13 A61M2205/3653 A61M2205/50 A61M2205/6054 A61M2205/8206 A61M2205/825 H05B2203/021).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1640	1083	L802 and (coil element) same transverse	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1641	485	L802 and (coil element) same transverse and longitudinal near axis	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1642	260	L804 and cigarette	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1643	127	("1968509 "6155268 "6598607 "0000024 "0000001 "0000004 "0000020 "0000023 "0000604 "0000026 "20090272379 "20140060554 "4284089 "5249586 "8910639 "20050016550 "20060196518 "20070267031 "20080073443 "20080092912 "20080230052 "20080247892 "20080257367 "20080276947 "20080303286 "20090095311 "20090126745 "2010031968 "20100037903 "20100200006 "20100200008 "2010024297	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/28 12:37 PM

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L1651	40	L812 and L813	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1652	9407	L810 and (coil element) and cigarette	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1653	199	L815 and L812	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1654	7641	L810 and (coil element) and cigarette and liquid	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
L1655	123	L817 and L812	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
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L1663	887	((("Han") near3 ("Li"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/28 12:37 PM
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L1665	153	((("Hon") near3 ("Lik"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/28 12:37 PM

L1666	280	L828 and cigarette and liquid	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/28 12:37 PM
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L1675	34	(Artificial Intelligence) More like doc: US-9022026-B2	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2022/09/28 12:37 PM

L1676	39	<p>20160353803-A1 OR US-9427536-B2 OR US-20220016367-A1 OR US-20190282770-A1 OR US-11123503-B2 OR CN-101606758-B OR CN-101606758-A OR CN-104023571-A OR US-20140290677-A1 OR US-9402421-B2 OR US-20140299140-A1 OR US-9420831-B2 OR JP-2016512116-A OR CN-201781984-U OR JP-6426142-B2 OR US-20140190478-A1 OR EP-2742814-A1).did.</p> <p>(Artificial Intelligence) More like doc: US-20160113325-A1</p> <p>Text: (WO-2014134778-A1 OR US-20150128970-A1 OR WO-2014146232-A1 OR US-20150150307-A1 OR US-20150189919-A1 OR US-20150181941-A1 OR US-9901120-B2 OR US-9901119-B2 OR US-20160205999-A1 OR US-20150189918-A1 OR US-20140290677-A1 OR EP-2984947-A1 OR CN-204292194-U OR EP-2984947-B1 OR US-20140360516-A1 OR WO-2015066927-A1 OR US-20140190478-A1 OR US-9301549-B2 OR US-20190282770-A1 OR US-20150296884-A1).did.</p>	<p>MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)</p> <p>(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)</p>	OR	ON	ON	2022/09/28 12:37 PM
L1677	48	<p>(Artificial Intelligence) More like doc: WO-2014101129-A1</p> <p>Text: (WO-2014101123-A1 OR US-20150296884-A1 OR US-9603387-B2 OR WO-2014101118-A1 OR WO-2014134779-A1 OR</p>	<p>(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,</p>	OR	ON	ON	2022/09/28 12:37 PM

L1679	31597	WO-2014101114-A1 OR WO-2014146232-A1 OR WO-2014134778-A1 OR WO-2014166079-A1 OR WO-2014153782-A1 OR WO-2014201602-A1 OR WO-2014089945-A1 OR US-9723872-B2 OR JP-2017518761-A OR US-20140182611-A1 OR JP-6371868-B2 OR US-20140246031-A1 OR US-9901119-B2 OR WO-2014106329-A1 OR WO-2014166034-A1).did. (392/395,403, "404").ccls. OR (A61M11/042 A24F40/44 A24F40/42 A61M15/06 A24F40/10 A61M16/0066 A61M2016/0024 A61M2016/0027 A61M2016/0039 A61M2205/13 A61M2205/3653 A61M2205/50 A61M2205/6054 A61M2205/8206 A61M2205/825).cpc.	NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) <
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PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N402	9	vaporizer and cartridge and breath and airflow and threaded and battery	(US-PGPUB; USPAT)	OR	OFF	OFF	2016/08/20 01:57 PM
N798	17	vaporizer and cartridge and breath and airflow and threaded and battery	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/02/18 06:57 PM
N799	31597	(392/395,403, "404").ccls. OR (A61M11/042 A24F40/44 A24F40/42 A61M15/06 A24F40/10 A61M16/0066	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/09/28 12:40 PM

N800	351	A61M2016/0024 A61M2016/0027 A61M2016/0039 A61M2205/13 A61M2205/3653 A61M2205/50 A61M2205/6054 A61M2205/8206 A61M2205/825).cpc. vaporizer AND cartridge AND airflow SAME inlet SAME outlet	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/09/28 12:41 PM
N801	301	799 AND 800	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/28 12:41 PM
N802	469	799 AND (coil element) SAME transverse AND longitudinal NEAR axis	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/28 12:42 PM
N803	256	"1679" AND (coil element) SAME transverse AND longitudinal NEAR axis	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/28 12:43 PM
N804	25	802 AND 800	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/28 12:44 PM

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)

22882 7590 10/05/2022
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

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.
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000	5143

TITLE OF INVENTION: ELECTRONIC VAPORIZER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	01/05/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
CAMPBELL, THOR S	3761	392-395000

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, 1 _____
- (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. 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

FUMA INTERNATIONAL, LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Medina, OH

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government4a. 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. 60-4357

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 /Thomas H. Martin/

Date October 10, 2022

Typed or printed name Thomas H. Martin

Registration No. 34,383

Electronic Patent Application Fee Transmittal				
Application Number:		16451483		
Filing Date:		25-Jun-2019		
Title of Invention:		ELECTRONIC VAPORIZER		
First Named Inventor/Applicant Name:		Gregory D. Conley		
Filer:		Wesley Charles Meinerding		
Attorney Docket Number:		269.0003-03000		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1200

Electronic Acknowledgement Receipt	
EFS ID:	46784062
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	10-OCT-2022
Filing Date:	25-JUN-2019
Time Stamp:	12:51:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$1200
RAM confirmation Number	E202200C51402808
Deposit Account	604357
Authorized User	Wesley Meinerding
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.16 (National application filing, search, and examination fees)</p> <p>37 CFR 1.17 (Patent application and reexamination processing fees)</p>	

NJOY Exhibit 2029.599
Juul v. NJOY
IPR2024-00161

37 CFR 1.19 (Document supply fees)					
37 CFR 1.20 (Post Issuance fees)					
37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	IssueFee.pdf	1600420	no	1
			18325f36310209af918067e8715d4f352acc75de		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37841	no	2
			1f634a876f4b2e7c3663030f51d7024253afe776		
Warnings:					
Information:					
Total Files Size (in bytes):			1638261		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

Notice of References Cited	Application/Control No. 16/451,483		Applicant(s)/Patent Under Reexamination Conley et al.	
	Examiner THOR S CAMPBELL		Art Unit 3761	Page 2 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7845359-B2	12-2010	Montaser; Akbar	A61M15/009	438/689
*	B	US-9597466-B2	03-2017	Henry, Jr.; Raymond Charles	A61M11/042	1/1
*	C	US-1771366-A	07-1930	WYSS ALFRED U	A61M16/108	128/203.22
Change(s) applied to document, 10/10/2022	D	US-2057353-A	10-1936	Name not available Whittemore, Jr.		392/404
*	E	US-6155268-A	12-2000	Takeuchi; Manabu	A24F40/485	131/194
J.G.	F	US-20090188490-A1	07-2009	Han; Li	A61M15/06	128/200.14
10/10/2022	G	US-9022026-B2	05-2015	Fang; Xiaolin	A24F40/485	128/202.21
*	H	US-8794231-B2	08-2014	Thorens; Michel	A24D3/18	219/535
*	I	US-20090126745-A1	05-2009	Hon; Lik	H05B3/42	131/273
*	J	US-7832655-B2	11-2010	Tollens; Fernando Ray	A01M1/205	239/69
*	K	US-20160113325-A1	04-2016	LIU; QIUMING	A24F40/42	392/404
*	L	US-20150272217-A1	10-2015	Chen; Zhiping	A24F40/485	131/329
*	M	US-20150296884-A1	10-2015	Liu; Qiuming	H05B3/03	131/329

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.

Notice of References Cited	Application/Control No. 16/451,483	Applicant(s)/Patent Under Reexamination Conley et al.	
	Examiner THOR S CAMPBELL	Art Unit 3761	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-7845359-B2	12-2010	Montaser; Akbar	A61M15/009	438/689
*	B	US-9597466-B2	03-2017	Henry, Jr.; Raymond Charles	A61M11/042	1/1
*	C	US-1771366-A	07-1930	WYSS ALFRED U	A61M16/108	128/203.22
*	D	US-2057353-A	10-1936	Name not available Whittemore, Jr.		392/404
*	E	US-6155268-A	12-2000	Takeuchi; Manabu	A24F40/485	131/194
*	F	US-20090188490-A1	07-2009	Han; Li	A61M15/06	128/200.14
*	G	US-9022026-B2	05-2015	Fang; Xiaolin	A24F40/485	128/202.21
	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.



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.
16/451,483	11/15/2022	11497864	269.0003-03000	5143

22882 7590 10/26/2022
MARTIN & FERRARO, LLP
1557 LAKE OPINES STREET, NE
HARTVILLE, OH 44632

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 709 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):

Gregory D. Conley, Medina, OH;
Daniel C. Hillenbrandt, Brunswick, OH;

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

FUMA INTERNATIONAL, LLC, Medina, OH;

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.

IR103 (Rev. 10/09)

NJOY Exhibit 2029.603
Juul v. NJOY
IPR2024-00161

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	16451483	
Filing Date	25-Jun-2019	
First Named Inventor	Gregory Conley	
Attorney Docket Number	269.0003-03000	
Title of Invention	ELECTRONIC 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	
FUMA INTERNATIONAL, LLC	100%	
<p>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)</p> <p>9532604 10334881</p> <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> - 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 34383

- ☐ 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	/Thomas H. Martin/
Name	Thomas H. Martin

*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:		16451483		
Filing Date:		25-Jun-2019		
Title of Invention:		ELECTRONIC VAPORIZER		
First Named Inventor/Applicant Name:		Gregory D. Conley		
Filer:		Wesley Charles Meinertding		
Attorney Docket Number:		269.0003-03000		
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.: 16451483

Filing Date: 25-Jun-2019

Applicant/Patent under Reexamination: Conley

Electronic Terminal Disclaimer filed on November 15, 2022

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

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

U.S. Patent and Trademark Office

**NJOY Exhibit 2029.608
Juul v. NJOY
IPR2024-00161**

Electronic Acknowledgement Receipt	
EFS ID:	47029499
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding
Filer Authorized By:	
Attorney Docket Number:	269.0003-03000
Receipt Date:	15-NOV-2022
Filing Date:	25-JUN-2019
Time Stamp:	17:02:45
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	E2022AEH02431569
Deposit Account	604357
Authorized User	Wesley Meinerding
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>37 CFR 1.16 (National application filing, search, and examination fees)</p> <p>37 CFR 1.17 (Patent application and reexamination processing fees)</p>	

37 CFR 1.19 (Document supply fees) 37 CFR 1.20 (Post Issuance fees) 37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	41204	no	2
			36ecdd15b13183c09290e31ca2a47a50a1375092		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37856	no	2
			b5faad13c01bf93216db2b12100abb49b3f53b84		
Warnings:					
Information:					
Total Files Size (in bytes):			79060		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS			
NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.			
Application Number	16/451,483		
Filing Date	June 25, 2019		
First Named Inventor	Gregory D. CONLEY		
Title	Electronic Vaporizer		
Art Unit	3761		
Examiner Name	Thor S. Campbell		
Attorney Docket Number	24000FM-000001-US-COA3		
SIGNATURE of Applicant or Patent Practitioner			
Signature	/Gary D. Yacura/	Date (Optional)	August 22, 2023
Name	Gary D. Yacura	Registration Number	35,416
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
☐	*Total of <u>1</u> forms are submitted.		

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

POWER OF ATTORNEY BY APPLICANT			
I hereby revoke all previous powers of attorney given in the application identified in <u>either</u> 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: 127542		
OR			
☐	I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)		
Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:			
☒	The address associated with the above-mentioned Customer Number		
OR			
☐	The address associated with Customer Number: 		
OR			
☐	Firm or Individual Name		
Address			
City		State	Zip
Country			
Telephone		Email	
I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):			
NJOY, LLC			
☐	Inventor or Joint Inventor (title not required below)		
☐	Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)		
☒	Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)		
☐	Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)		
SIGNATURE of Applicant for Patent			
The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).			
Signature	/ Shannon Leistra /		Date (Optional)
Name	Shannon Leistra		
Title	President and CEO NJOY		
NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.			
☐	Total of 1 forms are submitted.		

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Gregory D. CONLEY et al.Application No./Patent No.: 11,497,864 Filed/Issue Date: November 15, 2022Titled: Electronic Vaporizer

NJOY, LLC, a corporation
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is _____ %. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Gregory D. Conley et al. To: FUMA International, LLC
 The document was recorded in the United States Patent and Trademark Office at
 Reel 049578, Frame 0653, or for which a copy thereof is attached.

2. From: FUMA International, LLC To: NJOY, LLC
 The document was recorded in the United States Patent and Trademark Office at
 Reel 064620, Frame 0395, or for which a copy thereof is attached.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet(s).☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature /Gary D. Yacura/_____
Date August 22, 2023_____
Printed or Typed Name Gary D. Yacura_____
Title or Registration Number 35,416

Electronic Acknowledgement Receipt	
EFS ID:	48472471
Application Number:	16451483
International Application Number:	
Confirmation Number:	5143
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Gary Daniel Yacura/Ashley Keefe
Filer Authorized By:	Gary Daniel Yacura
Attorney Docket Number:	269.0003-03000
Receipt Date:	22-AUG-2023
Filing Date:	25-JUN-2019
Time Stamp:	12:12:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	2023_08_22_82A.pdf	15860	no	1
			368490d0bd31540abe0fbc9525adf6155b969bd5		

Warnings:

**NJOY Exhibit 2029.615
Juul v. NJOY
IPR2024-00161**

Information:					
2	Power of Attorney	POA.pdf	431428	no	1
			8ccdc491687eb766fa562899ef76ab8b223cb373		
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73	2023_08_22_373c.pdf	24691	no	2
			59d78010e33f422661ba5c93923cddb65b77bdf9c		
Warnings:					
Information:					
Total Files Size (in bytes):				471979	
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000

CONFIRMATION NO. 5143

POWER OF ATTORNEY NOTICE



OC000000061050785

22882
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

Date Mailed: 08/28/2023

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/22/2023.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

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.

/vostuart/



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/451,483	06/25/2019	Gregory D. Conley	269.0003-03000

CONFIRMATION NO. 5143

POA ACCEPTANCE LETTER



OC000000061050897

127542
Harness, Dickey & Pierce-Altria
P.O. Box 8910
Reston, VA 20195

Date Mailed: 08/28/2023

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/22/2023.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

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.

/vostuart/

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

JUUL LABS, INC.,
Petitioner,

v.

NJOY, LLC,
Patent Owner.

IPR2024-00160
Patent 11,497,864 B2

Before KRISTINA M. KALAN, KIMBERLY McGRAW, and
Avelyn M. ROSS, *Administrative Patent Judges*.

McGRAW, *Administrative Patent Judge*.

DECISION
Granting Institution of *Inter Partes* Review
35 U.S.C. § 314

I. INTRODUCTION

A. *Background and Summary*

JUUL Labs, Inc. (“JLI” or “Petitioner”) filed a petition for an *inter partes* review (Paper 3 (“Pet.”)) challenging claims 1–48 of U.S. Patent No. 11,497,864 B2 (Ex. 1001 (“the ’864 Patent”)). NJOY, LLC (“Patent Owner”) filed a Preliminary Response. Paper 7 (“Prelim. Resp.”). After receiving authorization from the Board, Petitioner filed a Reply to the Preliminary Response (Paper 8, “Reply”) and Patent Owner filed a Sur-reply (Paper 9, “Sur-reply”).

We have authority to determine whether to institute an *inter partes* review. 35 U.S.C. § 314; 37 C.F.R. § 42.4(a). The standard for instituting an *inter partes* review is set forth in 35 U.S.C. § 314(a), which provides that an *inter partes* review may not be instituted “unless the Director determines . . . there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition.”

For the reasons set forth below, we determine the information presented in the Petition establishes a reasonable likelihood that Petitioner would prevail with respect to at least one of the challenged claims. Accordingly, we institute an *inter partes* review of all challenged claims of the ’864 patent on all grounds asserted in the Petition. *See SAS Inst., Inc. v. Iancu*, 138 S. Ct. 1348, 1359–60 (2018); *PGS Geophysical AS v. Iancu*, 891 F.3d 1354, 1360 (Fed. Cir. 2018) (stating that a decision to institute is “a simple yes-or-no institution choice respecting a petition, embracing all challenges included in the petition”).

B. Real Parties-in-Interest

Petitioner asserts that JUUL Labs, Inc. (“JLI”) is the real party-in-interest. Pet. 1, 4. Petitioner further asserts that JLI is not controlled by any other entity. Pet. 4. Patent Owner asserts that the real parties-in-interest are “Patent Owner, NJOY, LLC, and Patent Owner’s parent corporation, Altria Group, Inc.” Paper 6 (“Patent Owner’s Mandatory Notices”), 1.

C. Related Matters

The parties identify a number of ITC and district court proceedings as related to the ’864 patent. Pet. 4; Paper 6 (Patent Owner’s Mandatory Notices), 1. Both parties identify a co-pending district court litigation as a related matter as involving the ’864 patent:

- *NJOY, LLC v. JUUL Labs, Inc.*, No. 1:23-cv-00917 (D. Del.), filed August 22, 2023. Pet. 5; Paper 6, 1.

Both parties also identify two district court proceedings, now dismissed, which were filed by Patent Owner’s predecessor in interest, Fuma International LLC, as involving the ’864 patent:

- *Fuma International LLC v. Logic Technology Development LLC*, No. 2:23-cv-04093 (D.N.J.), filed July 31, 2023 and dismissed August 25, 2023;
- *Fuma International LLC v. Altria Group, Inc.*, No. 2:23-cv-00231 (E.D. Va.), filed May 26, 2023 and dismissed August 14, 2023.

Pet. 5; Paper 6, 1.

Patent Owner further identifies as a related matter a third dismissed district court proceeding (the “M.D.N.C. Litigation”), in which Patent Owner’s predecessor in interest asserted infringement of U.S. Patent No. 10,334,881 (“the ’881 patent”), the parent to the ’864 patent.

- *Fuma International LLC v. RJ Reynolds Vapor Company*, No. 1:19-cv-00660 (M.D.N.C.), filed July 2, 2019 and dismissed December 2, 2021. Paper 6, 1.

Although Petitioner does not identify the M.D.N.C. Litigation as a related matter (*see* Pet. 4–5), the Petition does discuss this proceeding. *See, e.g.*, Pet. 11–12.

Petitioner identifies the following co-pending ITC proceeding as a related matter:

- *In Re Vaporizer Devices, Cartridges Used Therewith, and Components Thereof*, Case No. 337-TA-3961¹, filed August 22, 2023. Pet. 4.

Patent Owner identifies a different ITC proceeding as a related matter:

- *Certain Vaporizer Devices, Cartridges Used Therewith, and Components Thereof*, USTIC Inv. No. 337-TA-1372, filed August 22, 2023. Paper 6, 1.

D. The '864 Patent (Ex. 1001)

The '864 patent, titled “Electronic Vaporizer,” is directed to an “electronic vaporizer includ[ing] a cartridge that facilitates provision of a vaporized solution to an individual.” Ex. 1001, codes (22), (45), (54), (57). The '864 patent claims priority to a number of US applications, including the '881 patent. *Id.* at code (63).

The '864 patent states that “[c]onventional electronic cigarette designs generally include a battery, a heating element, and a mouthpiece. The mouthpiece includes a liquid solution that comprises nicotine, and the

¹ Although not identified as a related matter, the Petition also cites to exhibits from ITC proceedings *In re Vaporizer Devices, Cartridges Used Therewith, and Components Thereof*, 337-TA-1368 (Ex. 1022) (Pet. 28) and *In re Vaporizer Devices, Cartridges Used Therewith, and Components Thereof*, 337-TA-1372 (Ex. 1019) (Pet. 17–18 n.4).

battery provides power to the heating element, which in turn operates to vaporize the solution.” *Id.* at 1:23–30. The ’864 patent further states that “manufacturers of vaporizers generally manufacture a power source and a heating element in a proprietary manner, such that only a heating element provided by the manufacturer can be electrically or electronically coupled to a power source provided by the manufacturer.” *Id.* at 1:64–2:1. The ’864 patent provides adapters “configured to electrically or electronically couple power sources from a first manufacturer with a heating element from a second manufacturer.” *Id.* at 2:7–9.

Figure 1 of the ’864 patent is reproduced below.

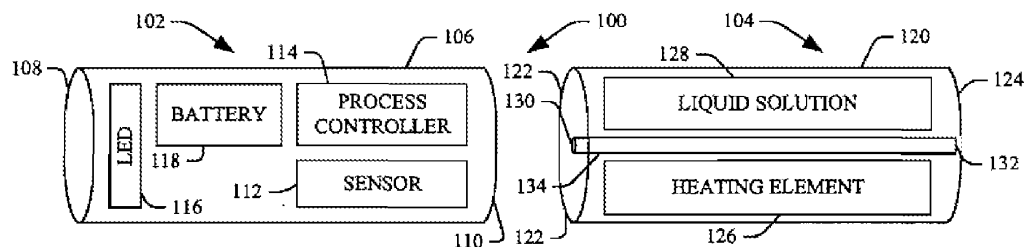


Figure 1 depicts “a functional block diagram of an exemplary electronic vaporizer.” *Id.* at 2:20–21. Electronic vaporizer 100 includes power source 102 and cartridge 104, which are mechanically and electrically coupled, e.g., by a respective electrically-conductive threaded fastener and receiver. *Id.* at 2:62–3:11.

Power source 102 includes cylindrical housing 106 having first end 108, opposing second end 110, and an interior. *Id.* at 3:12–13, 3:26–30. Second end 110 can include an aperture (not shown) configured to receive airflow from a user. *Id.* at 3:30–32. Power source 102 further includes battery 118 and switch/sensor 112, both residing on the interior of housing 106.

Cartridge 104 includes cylindrical housing 120 having first end 122 and opposing second end 124, both of which may be considered as a portion of the housing or apart from the housing. *Id.* at 3:46–59. Cartridge 104 further includes a heating element 126 in the housing 120 and a liquid solution 128 in the housing 120. *Id.* at 3:65–66, 4:7–8. First end 122 comprises first aperture 130 that is located approximately the center of first end 122. *Id.* at 4:30–32. Similarly, second end 124 comprises second aperture 132 that is located at approximately the center of second end 124 of cartridge 104. *Id.* at 4:32–34. Airflow passageway 134 extends between first aperture 130 and second aperture 132 axially proximate to the center of housing 120. *Id.* at 4:35–37.

A user can mechanically couple power source 102 to cartridge 104, thereby electrically coupling battery 118 to heating element 126. *Id.* at 4:40–42. When the user places second end 124 of cartridge 104 in their mouth and draws air through airflow passageway 134, the switch/sensor 112 in power source 106 detects the drawing of air through the airflow passageway 134, an electric circuit is closed between the battery 118 and the heating element 126, and the process controller 114 controls an amount of voltage/current to be received by the heating element 126 from the battery 118. *Id.* at 4:42–51. The heating element 126 vaporizes a portion of the solution 128, which is received by the user. *Id.* at 4:52–54.

Figure 2 of the '864 patent is reproduced below.

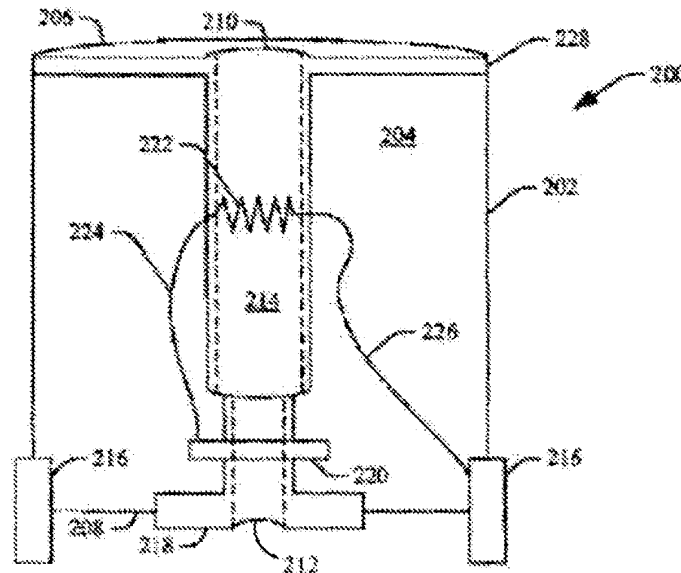


Figure 2 depicts an “exemplary configuration of a cartridge for utilization in an electronic vaporizer.” *Id.* at 2:22–23. The cartridge 200 includes a housing 202 having a first end 206, opposing second end 208, and liquid solution in absorbent material 204 spanning the ends. *Id.* at 5:67–6:6. The first and second ends 206, 208 have respective first and second apertures 210, 212 that form an airflow passageway 214 (also formed by a hollow center post 218) enclosing a heating element 222; these elements operate similarly to their counterparts 122, 124, 126, 130, 132, 134 of the cartridge 104 described for Figure 1. *Id.* at 6:12–24, 6:32–36, 6:53–58.

The cartridge further includes a conductive element 216 having metallic threads that facilitate mechanically and electrically coupling the cartridge 200 with a power source (battery). *Id.* at 6:27–31. Conductive lines 224, 226 respectively couple the heating element 222 to an electrical isolator 220 and the conductive element 216. *Id.* at 6:43–46. When the cartridge 200 is coupled to a power source, the conductive element 216 is electrically coupled to a negative terminal of the power source and the center

post 218 (and also, thus, the electrical isolator 220) is electrically coupled to a positive terminal of the power source. *Id.* at 6:49-53.

E. Illustrative Claims

Petitioner challenges all claims of the '864 patent (i.e., claims 1–48). Claims 1, 9, 21, 25, 29, 38, and 45 are independent. Claim 1 is representative and is reproduced below.

Claim 1:

1[p] A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

1[a1] a housing having an interior and a solution holding medium adapted to hold a solution,

1[a2] the housing having a first end and a second end that is opposite the first end, the housing having a first aperture proximate the first end and a second aperture proximate the second end,

1[a3] the first end of the housing being adapted to electrically couple to the power source,

1[a4] the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture;

1[b1] a heating element located in the interior of the housing, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow,

1[b2]: the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source; and

1[c] an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing,

1[d] wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.

Ex. 1001, 17:19–17:43 (labels and formatting added to correspond with Petitioner’s designation of claim limitations (*see* Pet. i-ii)).

F. Asserted Unpatentability Challenges

Petitioner asserts that claims 1–48 would have been unpatentable based on the following challenges:

	Claim(s) Challenged	35 U.S.C. §	Reference(s)/Basis
1A ²	1–48	103 ³	Xia ⁴
1B	1–48	103	Xia, Wang ⁵
1C	1–48	103	Xia, Fang ⁶
1D	1–48	103	Xia, Wang, Fang
2A	1–48	103	Wang
2B	1–48	103	Wang, Fang

Pet. 17. Petitioner relies on the declaration of Mr. Robert H. Sturges (Ex. 1007).

II. ANALYSIS

² Although the Petition only refers to Grounds 1 and 2, we refer to the grounds as Grounds 1A through 1D and Grounds 2A through 2B for clarity.

³ Although Petitioner asserts that “[a]ny of the references are anticipatory,” (Pet. 30), Petitioner’s arguments address unpatentability under § 103, not § 102, and we analyze Petitioner’s arguments accordingly.

⁴ Patent No. CN201238610, issued May 20, 2009 (“Xia”). Ex. 1027; Ex. 1004 (English translation). When referring to foreign references in this decision, we refer to the English translations filed by Petitioner.

⁵ Patent Publication No. CN101366554, published February 18, 2009 (“Wang”). Ex. 1029; Ex. 1005 (English translation).

⁶ Chinese Patent No. CN 201085044Y, issued July 16, 2008 (“Fang”). Ex. 1031; Ex. 1006 (English translation).

A. Discretionary Denial – § 325(d)

Patent Owner asserts the Petition should be denied under 35 U.S.C. § 325(d) because the Petition relies on “prior art that was before the Examiner during prosecution and because the Petition rehashes arguments that were overcome by the applicant during prosecution.” Prelim. Resp. 47; *see also id.* at 47–53; Sur-reply 4–5. Petitioner opposes. *See* Pet. 122–123; Reply 4–5.

The Director has the discretion to deny a petition that presents the same or substantially the same prior art or arguments as previously presented to the Office. The Board uses the following two-part framework in determining whether to exercise discretion under § 325(d) to deny institution.

- (1) whether the same or substantially the same art previously was presented to the Office or whether the same or substantially the same arguments previously were presented to the Office; and
- (2) if either condition of first part of the framework is satisfied, whether the petitioner has demonstrated that the Office erred in a manner material to the patentability of challenged claims.

Advanced Bionics, LLC v. Med-El Elektromedizinische Geräte GmbH, IPR2019-01469, Paper 6, 8 (PTAB Feb. 13, 2020) (precedential). In applying the two-part framework, we consider the following non-exclusive factors:

- (a) the similarities and material differences between the asserted art and the prior art involved during examination;
- (b) the cumulative nature of the asserted art and the prior art evaluated during examination;
- (c) the extent to which the asserted art was evaluated during examination, including whether the prior art was the basis for rejection;

(d) the extent of the overlap between the arguments made during examination and the manner in which Petitioner relies on the prior art or Patent Owner distinguishes the prior art;

(e) whether Petitioner has pointed out sufficiently how the Examiner erred in its evaluation of the asserted prior art; and

(f) the extent to which additional evidence and facts presented in the Petition warrant reconsideration of the prior art or arguments.

Becton, Dickinson & Co. v. B. Braun Melsungen AG, IPR2017-01586, Paper 8, 17–18 (PTAB Dec. 15, 2017) (precedential as to Section III.C.5, first paragraph). Factors (a), (b), and (d) relate to whether the art or arguments presented in the Petition are the same or substantially the same as those previously presented to the Office. *Advanced Bionics*, Paper 6 at 10. Factors (c), (e), and (f) relate to whether the petitioner has demonstrated a material error by the Office. *Id.* If a condition of the first part of the framework is satisfied and the petitioner fails to make a showing of material error under the second part of the framework, the Director generally will exercise discretion not to institute *inter partes* review. *Id.* at 9.

1. Part One of the Advanced Bionics Analysis

In the first part of the *Advanced Bionics* framework, we consider whether the same or substantially the same art or arguments previously were presented to the Office. *Advanced Bionics*, Paper 6 at 8. *Becton, Dickinson* factors (a), (b), and (d) inform the analysis. *Id.* at 9–10.

Patent Owner contends, and Petitioner does not dispute, that all three of the asserted references—Xia, Wang, and Fang—were disclosed during examination. Prelim. Resp. 47; Pet. 122. As clarified in the Notice of Proposed Rule Making, however, mere prior citation of prior art in an IDS will not automatically satisfy the first prong of the analytical framework set

forth in *Advanced Bionics*. Patent Trial and Appeal Board Rules of Practice for Briefing Discretionary Denial Issues, and Rules for 325(d) Considerations, Instituting Parallel and Serial Petitions, and Termination Due to Settlement Agreement, 89 FR 28693, 28702 (Apr. 19, 2024). Patent Owner provides no other argument that Xia itself was materially considered by the Office.

With respect to Wang and Fang, Patent Owner contends these references were discussed in significant detail in an expert report that was submitted to the Examiner during prosecution. Prelim. Resp. 47–48. Patent Owner, however, fails to provide any citation to the prosecution history to show that the expert report was submitted or considered. Thus, Patent Owner has not sufficiently shown that Wang or Fang were substantively or materially considered by the Examiner.

Patent Owner also states that the Examiner substantively considered Han, which Patent Owner asserts is “nearly identical” to Xia. Prelim. Resp. 48; *see also id.* at 48–51 (discussing similarities of Xia and Han). Patent Owner contends that “Petitioner rehashes exactly the same argument that was already decided by the Examiner in exactly the same context with respect [to] Xia,” namely, “whether the liquid bottle is an obstruction or defines the airflow passageway.” *Id.* at 52 (emphasis omitted). Patent Owner, however, does not provide persuasive argument as to how Han’s airflow passageway is identical or substantially similar to Xia’s airflow passageway. Indeed, Patent Owner does not expressly assert that Xia fails to disclose or suggest the claimed airflow passageway. Thus, Patent Owner has not sufficiently shown that the Examiner already considered the same, or substantially the same, argument set forth in the Petition or that Han is the

same or substantially the same as Xia. Accordingly, we determine that Patent Owner has not shown that the first part of the *Advanced Bionic* framework is met. As such, we need not address the second part of that framework.

Thus, we decline to exercise our discretion to deny institution under § 325(d).

B. Principles of Law

“In an [*inter partes* review], the petitioner has the burden from the onset to show with particularity why the patent it challenges is unpatentable.” *Harmonic Inc. v. Avid Tech., Inc.*, 815 F.3d 1356, 1363 (Fed. Cir. 2016) (citing 35 U.S.C. § 312(a)(3) (requiring *inter partes* review petitions to identify “with particularity ... the evidence that supports the grounds for the challenge to each claim”)); *see also* 37 C.F.R. § 42.104(b) (requiring a petition for *inter partes* review to identify how the challenged claim is to be construed and where each element of the claim is found in the prior art patents or printed publications relied upon).

A claim is unpatentable under 35 U.S.C. § 103(a) if “the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.” *KSR Int’l Co. v. Teleflex Inc.*, 550 U.S. 398, 406 (2007). The question of obviousness is resolved on the basis of underlying factual determinations, including: (1) the scope and content of the prior art; (2) any differences between the claimed subject matter and the prior art; (3) the level of skill in the art; and (4) when in evidence, objective evidence of obviousness or nonobviousness, i.e., secondary considerations. *See*

Graham v. John Deere Co., 383 U.S. 1, 17–18 (1966).

Additionally, the obviousness inquiry typically requires an analysis of “whether there was an apparent reason to combine the known elements in the fashion claimed by the patent at issue.” *KSR*, 550 U.S. at 418 (citing *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2016) (requiring “articulated reasoning with some rational underpinning to support the legal conclusion of obviousness”)). Furthermore, Petitioner does not satisfy its burden of proving obviousness by employing “mere conclusory statements,” but “must instead articulate specific reasoning, based on evidence of record, to support the legal conclusion of obviousness.” *In re Magnum Oil Tools Int’l, Ltd.*, 829 F.3d 1364, 1380 (Fed. Cir. 2016).

C. Level of Ordinary Skill in the Art

In determining whether an invention would have been obvious at the time it was made, we consider the level of ordinary skill in the pertinent art at the time of invention. *Graham*, 383 U.S. at 17. Petitioner does not provide its own definition of the level of ordinary skill in the art. Instead, Petitioner asserts:

In previous litigation involving the ’881 patent – the parent patent to the ’864 patent (*Fuma International LLC v. R.J. Reynolds Vapor Company*, Case No. 1:19-cv-260 (M.D.N.C. 2019)) with an identical specification – Patent Owner’s predecessor-in-interest asserted that a person of ordinary skill in the art (“POSITA”) at the time of the purported invention would have had a mechanical or electrical engineering degree, industrial design degree, or a similar technical degree, or equivalent work experience, and 5 to 10 years of experience in electromechanical devices. Ex. 1007, ¶¶14-17.

Pet. 11–12; *see also* Ex. 1007 ¶ 16 (Mr. Sturges testifying that he meets “that qualification” without affirmatively providing a definition for a

POSITA). Patent Owner “does not challenge the definition of a POSITA set forth in the Petition.” Prelim. Resp. 9.

In light of the record before us, and for purposes of this Decision, we adopt the level of ordinary skill in the art set forth in the above block-quote of the Petition as this definition appears to comport with the qualifications a person would have needed to understand and implement the teachings of the ’864 patent and the prior art.

D. Claim Construction

We interpret claim terms using “the same claim construction standard that would be used to construe the claim in a civil action under 35 U.S.C. [§] 282(b).” 37 C.F.R. § 42.100(b). In this context, claim terms “are generally given their ordinary and customary meaning” as understood by a person of ordinary skill in the art in question at the time of the invention. *Phillips v. AWH Corp.*, 415 F.3d 1303, 1312–13 (Fed. Cir. 2005) (citations omitted) (en banc). The “ordinary and customary meaning of a claim term is the meaning that the term would have to a person of ordinary skill in the art in question at the time of the invention.” *Id.* at 1313. “Importantly, the person of ordinary skill in the art is deemed to read the claim term not only in the context of the particular claim in which the disputed term appears, but in the context of the entire patent, including the specification.” *Id.*

Petitioner identifies a number of claim constructions provided by the district court in the M.D.N.C. Litigation involving terms from the parent ’881 patent, which are reproduced below.

Term	Construction
“wherein the airflow passageway extends centrally and axially from	A location, container, or mechanism to hold the

the first aperture to the second aperture”	solution, including but not limited to at least one of an absorbent material, a chamber, a reservoir, a capsule, or
an electrically conductive portion ’881 patent, claims 1, 8, 16	Ordinary meaning: A portion that is electrically conductive.
wherein the heating element is electrically configured to vaporize at least a portion of the solution to be contained in the solution holding medium ’881 patent, claim 1; claims 8, 16 (similar)	Ordinary meaning: The solution can be, but need not be, in the solution holding medium when vaporized by the heating element.
an airflow passageway that extends centrally and axially with respect to the housing intermediate of the first aperture on the first end of the housing and the second aperture on the second end of the housing; wherein the airflow passageway is configured to allow an airflow through the cartridge from the first aperture to the second aperture of the housing ’881 patent, claim 1; claims 8, 16 (similar)	The airflow passageway extends in a straight path [¶] through the center of the cartridge from a first opening on the first end to a second opening on the opposite end of the cartridge

Pet. 12–13. Petitioner argues that in Patent Owner’s motion for summary judgment in the M.D.N.C. Litigation, which asserted that the accused products infringed the ’881 patent, Patent Owner took positions regarding the terms “first aperture” and “airflow passageway” that were adopted by the district court and that are relevant to the present petition. Patent Owner disputes Petitioner’s assertions. *See generally* Prelim. Resp.

Below, we address the construction of the terms (1) “the housing having a first aperture proximate the first end” of the housing and

(2) “wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.” We determine that no other claim terms require construction for purposes of this Decision. *See Vivid Techs., Inc. v. Am. Sci. & Eng’g, Inc.*, 200 F.3d 795, 803 (Fed. Cir. 1999) (holding that “only those terms need be construed that are in controversy, and only to the extent necessary to resolve the controversy”); *see also Nidec Motor Corp. v. Zhongshan Broad Ocean Motor Co.*, 868 F.3d 1013, 1017 (Fed. Cir. 2017) (citing *Vivid Techs.* in the context of an *inter partes* review).

1. “the housing having a first aperture proximate the first end” of the housing

a) Parties’ Positions

Claim element 1[a2] recites “the housing having a first end and a second end . . . , the housing having a first aperture proximate the first end.” Petitioner presents no express claim construction of this term, but argues that, in the M.D.N.C. Litigation, Patent Owner “took—and the District Court adopted—positions relevant to this petition, including positions regarding the claimed first aperture.” Pet. 13. Petitioner asserts that a construction of claim element 1[a2] that encompasses a first aperture located within the interior of the housing is supported by Patent Owner statements made during the related M.D.N.C. Litigation involving the parent ’881 patent, and adopted by the district court, as well as Patent Owner statements made during the related ITC proceeding involving the ’864 patent. *Id.*

For example, Petitioner asserts that in the M.D.N.C. Litigation, Patent Owner asserted that the claimed “first aperture on the first end” of the cartridge housing recited in the parent ’881 patent is met by a single opening *inside* the housing, where air entering the cartridge converges at that opening

to pass through to the alleged airflow passageway. Pet. 13–14 (citing Ex. 1021 (“Fuma Summary Judgment Brief”), 9–12). Petitioner asserts that the district court agreed with Patent Owner when it granted summary judgment of infringement and that the district court “explicitly held that the aperture internal to the device, at the beginning of the internal passageway, i.e., the hole within the internally-contained ‘positive pin’ depicted above, meets the requirement for a first aperture ‘on the first end.’” Pet. 14 (citing Ex. 1014 (“RJR Brief”), 44; Ex. 1015 (“Summary Judgment Order”), 14–18). Petitioner also maps structures that are *within* the asserted housing of the asserted prior art to claimed “first aperture.” *See, e.g.*, Pet. 35–39 (asserting Xia discloses a “first aperture”), 93–94 (asserting Wang discloses a “first aperture”).

Patent Owner responds that the first apertures identified by Petitioner in the prior art “are not apertures in the housing as required by the claims but are instead apertures in structures interior to the housing,” Prelim. Resp. 2; *see also id.* at 14 (stating Xia does not disclose a “housing having a first aperture” because Xia’s “‘first aperture’ is not in the housing” (emphasis omitted)); *id.* at 19 (stating Wang does not meet the “housing having a first aperture . . . and second aperture” limitations because the first and second apertures identified by the Petitioner “are not in the housing” (emphasis omitted)); *see also* Sur-reply 4 (stating Petitioner fails to identify “a first aperture in the housing in any of its prior art references” as the “only apertures identified by Petitioner are apertures *internal* to the housing” (emphasis omitted and added)).

Regarding the M.D.N.C. Litigation, Patent Owner asserts that the “opening at the base of the positive pin,” which was identified as the

aperture, is in fact “the housing’s hole, which can be seen when viewing the exterior of the cartridge.” Sur-reply 2–3 (citing Prelim. Resp. 28). Patent Owner points to “threaded connector” in the Vuse Ciro⁷ device and states that this “threaded connector is part of the housing (*i.e.*, the outer structure of the device),” but “even if the threaded connector was not considered part of the housing, the housing has an aperture to accommodate the threaded connector.” *Id.* Thus, Patent Owner’s proposed construction of “housing having a first aperture” appears to use the phrase “*in* the housing” to mean that the aperture must be an aperture *in* the housing itself (*i.e.*, the aperture is an opening through the structure of the housing itself as opposed to an opening through a structure that is located within the interior of the housing).

b) Analysis

We start with the claim language itself. The claims do not recite that the aperture is “in the housing.” Rather, the claims recites a “housing having a first end” and a “housing having a first aperture proximate the first end.” The plain and ordinary meaning of “proximate” is near or close to, not on. Thus, the plain and ordinary understanding of the claim language “housing having a first aperture proximate the first end” of the housing is that the first aperture is near, though not necessarily on, the first end of the housing.

This, however, does not resolve whether or not a “housing having an aperture” proximate the first end of the housing means that the aperture may be located *within* the inside of the housing (as asserted by Petitioner) or must

⁷ Patent Owner also states that it “dropped its reliance on the Vuse Ciro in the ITC investigation.” Sur-reply 2.

be *in* the housing itself, i.e., a part of the housing itself (as asserted by the Patent Owner).

Significantly, claim 1 also recites a “a housing *having* an interior and *a solution holding medium adapted to hold a solution.*” Ex. 1001, 17:21–22. Both parties appear to agree that the phrase “housing having . . . a solution holding medium” is met by a solution holding medium that is located *within* the housing, and located in the housing. *See* Pet. 31–35 (asserting Xia’s liquid storage chambers 10 and 12, located within the interior of Xia’s housing, meets the limitations of claim element 1[a1]); Prelim. Resp. (not disputing Petitioner’s assertion). The use of the same phrase—*housing having a*—to refer to a housing having a first aperture as well as to a housing having a solution holding medium, creates the presumption that the phrase “housing having a” is used consistently throughout the claim and that the first aperture, like the solution holding medium, may be located within the interior of the housing. *See Rexnord Corp. v. Laitram Corp.*, 274 F.3d 1336, 1342 (Fed. Cir. 2001) (“claim term should be construed consistently with its appearance in other places in the same claim or in other claims of the same patent,”); *but see Miracoprocessor Enhancement Corp. v. Texas Instruments, Inc.*, 520 F.3d 1367, 1375 (Fed. Cir. 2008) (holding that, while there is a presumption that a claim term will be construed consistently when used throughout the claims, there is no requirement that a claim term be construed uniformly, particularly if it would lead to a “nonsensical reading”). Thus, the term “having” is used more expansively in claim 1 than urged by Patent Owner. We note that at this stage of the proceedings, the parties do not present any argument that the multiple recitations of the term a “housing having a . . .” should be construed differently.

Regarding the extrinsic evidence of Patent Owner's statements made during the M.D.N.C. Litigation and ITC proceeding, we agree with Petitioner that these statements could be also be understood to support construction of the term a "housing having a first aperture proximate the first end" that encompasses a first aperture that is located within the housing as opposed to an aperture located in the housing itself. For example, Petitioner asserts that Patent Owner mapped the "first aperture" claimed in the '881 patent to an aperture within a threaded connector, not the housing, in the Vuse Ciro device. *See, e.g.*, Pet. 13–14; Reply 1–2 (citing Ex. 1032, 3, 6; Ex. 1014, 14, 37; Ex. 1015, 16–17). We agree with Petitioner that Patent Owner's statements regarding the scope of claims of the '881 patent are relevant to the construction of the '864 patent. Petitioner has provided sufficient argument that Patent Owner's mapping of apertures that are arguably located within the interior of a housing, as opposed to located in the housing, supports a construction that does not require the "first aperture" of the '864 patent to be located in the housing.

Patent Owner's arguments to the contrary are not sufficiently developed to be persuasive at this stage of the proceeding. For example, Patent Owner asserts that the accused aperture in the Vuse Ciro device can be seen from the outside of the cartridge. Prelim. Resp. 27–28; Sur-reply 2. However, whether or not the aperture can be seen from outside the cartridge does not clearly address whether or not the asserted aperture is necessarily located in the housing of the cartridge or is merely located within the interior of the housing. Additionally, in response to Petitioner's argument that the asserted aperture of the Vuse Ciro device is "within a threaded connector, not the housing" (Reply 1, citing Ex. 1032, 3, 6), Patent Owner asserts that

“even if the threaded connector was not considered part of the housing, the housing has an aperture to accommodate the threaded connector.” Sur-reply 2. It is unclear from the record before us whether Patent Owner is asserting that the Vuse Ciro device has two apertures, i.e., one aperture on the housing and a second apertures in the threaded connector and which of these apertures satisfies the “first aperture” limitation claimed in the ’881 patent and how those arguments apply to the relevant limitations in the ’864 patent.

Having considered the parties’ arguments and the intrinsic and extrinsic evidence of record, we construe the term “the housing having a first aperture proximate the first end” to encompass apertures that are located within the first end of the housing. The term does not require that the first aperture be located in the housing itself. Our construction is preliminary and the parties are invited to address claim construction of this term during trial.

2. *“wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture”*

a) *Parties’ Positions*

Claim element 1[c] recites “wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.” Ex. 1001, 17:42–43. Petitioner maps this claim element to an airflow passageway in Xia that Petitioner asserts is “both interior to the inner surface of the cartridge housing and centrally and axially located with respect to the housing along the length of the cartridge.” Pet. 51 (citing Ex. 1007 ¶ 132).

Petitioner acknowledges that there are objects located in Xia’s airflow passageway. Pet. 52. Petitioner, however, asserts that if Patent Owner argues that Xia does not meet this claim limitation because air within Xia’s passageway flows around certain items rather than in a straight line, that any

such argument is inconsistent with Patent Owner’s own assertions in the M.D.N.C. Litigation and the co-pending ITC investigation. Pet. 52 (citing Ex. 1007 ¶ 133).

For example, with respect to the M.D.N.C. Litigation, Petitioner asserts that the district court there found the accused Viro Cuse device met a related limitation in the ’881 patent as a matter of law even though the defendant there had argued that the airflow in the accused device was obstructed “by among other things the positive pin and silicone base” and that these structures directed the airflow “away from the center, rather than allowing it to flow along the central axis, making the passageway not centrally and axially located.” Pet. 15–16 (citing Ex. 1014 (Defendant RJR Br.), 22–25; Ex. 1015, 14–18; Ex. 1025 (Fuma SJ Br), 17; Ex. 1007 ¶¶ 31–32). Petitioner further states that the district court determined that that this claim element is met “even if there are objects in the passageway that obstruct the airflow and direct it away from the center, rather than allowing the airflow to flow along the central axis” of the housing. Pet. 49 (citing Ex. 1007 ¶ 128). Petitioner also argues that in the co-pending ITC proceeding, Patent Owner contends that the Viro Cuse device “meets the ’881 patent⁸ claims and this limitation.” Pet. 53 (citing Pet. § VII.C).

Patent Owner does not provide an express construction of this term. *See generally* Prelim. Resp.; Sur-reply. Nor does Patent Owner expressly state that the asserted art does not teach this limitation under Petitioner’s

⁸ We understand Petitioner’s reference to the ’881 patent to be in error and that Petitioner intended to state that Viro Cuse device meets the ’864 patent claims. Pet. 17 (citing Ex. 1032, 3–4). The Board requests clarification if the Board’s understanding is in error.

proposed construction. *See generally* Prelim. Resp.; Sur-reply. Rather, Patent Owner responds that the district court in the M.D.N.C. Litigation merely stated that “small items that ‘do not alter the direction of the Ciro’s airflow passageway any more than the heating element’ are obstructions.” Sur-reply 5 (citing Ex. 1015, 16). Patent Owner does not address how any assertions that it made in the M.D.N.C. Litigation, or in the ITC Investigation before dropping its reliance on the Vuse Ciro device, relate to claim construction this claim element.

Patent Owner does, however, point to statements made during prosecution regarding airflow passageway to support its contention that the Board should exercise its discretion to deny institution under § 325(d). During prosecution, Patent Owner distinguished a prior art reference (i.e., “Han”) by asserting that Han’s shell (b) “does not include a central airflow passageway and instead places the perforated component for liquid storage (9) in the middle of shell (b), thereby forcing the airflow around the peripheral surface of perforated component for liquid storage (9) as described in paragraph [0070] of Han and shown in FIG. 3.” Ex. 1002, 273–274. In its Preliminary Response, Patent Owner states that the statements made during prosecution “directly addresses Petitioner’s argument whether the liquid bottle is an obstruction or defines the airflow passageway. Petitioner rehashes exactly the same argument that was already decided by the Examiner in exactly the same context with respect to Xia”). Prelim. Resp. 52 (emphasis omitted).

b) Analysis

The plain and ordinary meaning of “wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture”

requires that the airflow passageway extend through the center and along the axis of the housing from the first aperture to the second aperture.

As explained more fully below, at this stage of the proceeding, we do not construe this claim element to further require the airflow passageway be unobstructed through its center or along its axis. Thus, our preliminary construction of claim element 1[c] encompasses an airflow passageway that encompasses obstacles located in the center and along the axis of the housing that force airflow around these obstacles.

We recognize that this construction may be inconsistent with arguments made by Patent Owner during prosecution to distinguish the Han reference, which Patent Owner asserted does not include a central airflow passageway because it places the perforated component for liquid storage in the middle of the shell, thereby forcing airflow around the peripheral surface of perforated component for liquid storage. *See* Ex. 1002, 273–274; Prelim. Resp. 52.

However, neither party has provided a full claim construction analysis of this term, including addressing Patent Owner’s statements during prosecution. Although Patent Owner discusses these statements in its request that the Board deny institution under § 325(d), Patent Owner does not affirmatively state how these statements should be used for claim construction. Additionally, Patent Owner has asserted in the M.D.N.C. Litigation and the ITC proceeding that this claim element would encompass an airflow passageway having at least some obstruction present in the center of the passageway that diverts airflow in the airflow passageway away from the center axis of the passageway. As such, we are reluctant to adopt a

preliminary construction that is inconsistent with positions taken by Patent Owners in the related proceedings.

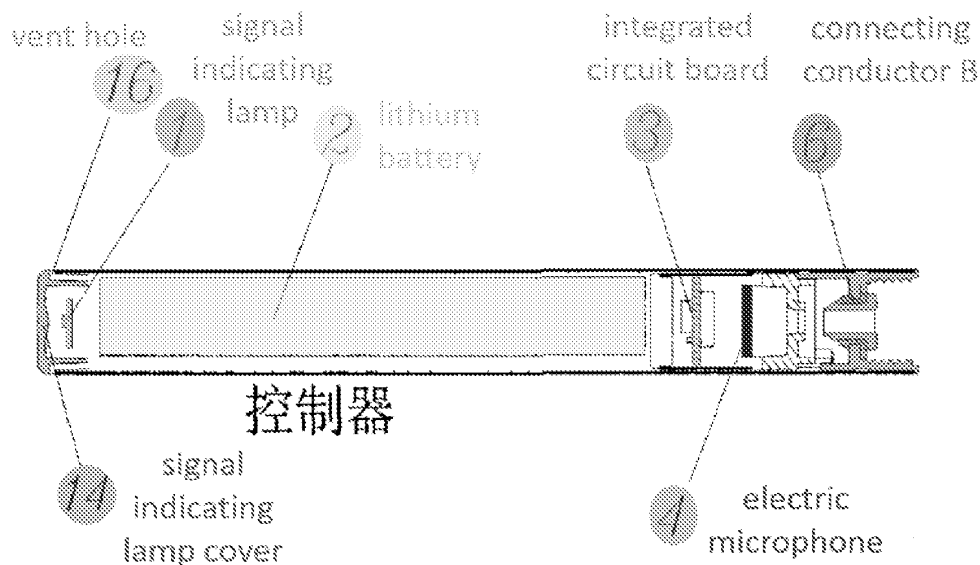
The parties are invited to more fully address the proper claim construction of this claim element during trial.

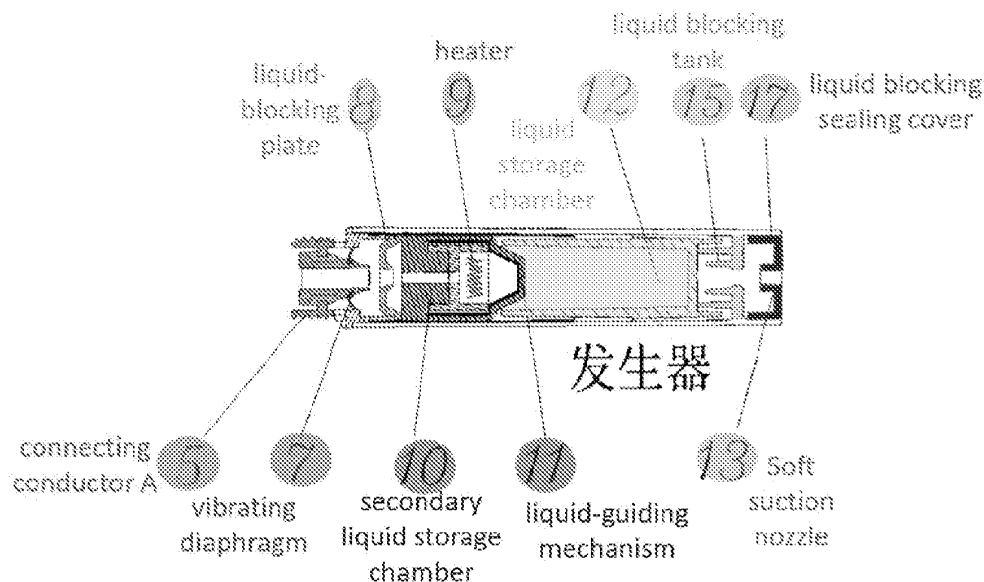
E. Overview of Asserted Prior Art

1. Xia (Ex. 1004)

Xia is a Chinese patent, titled “Environmental-protecting Type Incombustible Atomizing Electronic Cigarette with Function of Cigarette Substitute,” that discloses an electronic cigarette including a “detachable controller and a generator.” Ex. 1004, codes (11), (54), (57); *see also id.* at 7 (“the technical solution . . . [is an] electronic cigarette with a function of a cigarette substitute[and] comprising a detachable controller and a generator”).

Patent Owner’s annotated versions of Xia’s Figure 2 are reproduced below:





Prelim. Resp. 10–11. Xia’s Figure 2 is a “schematic structural diagram of the . . . atomizing electronic cigarette.” Ex. 1004, 9. Xia provides the following listing of the illustrated features:

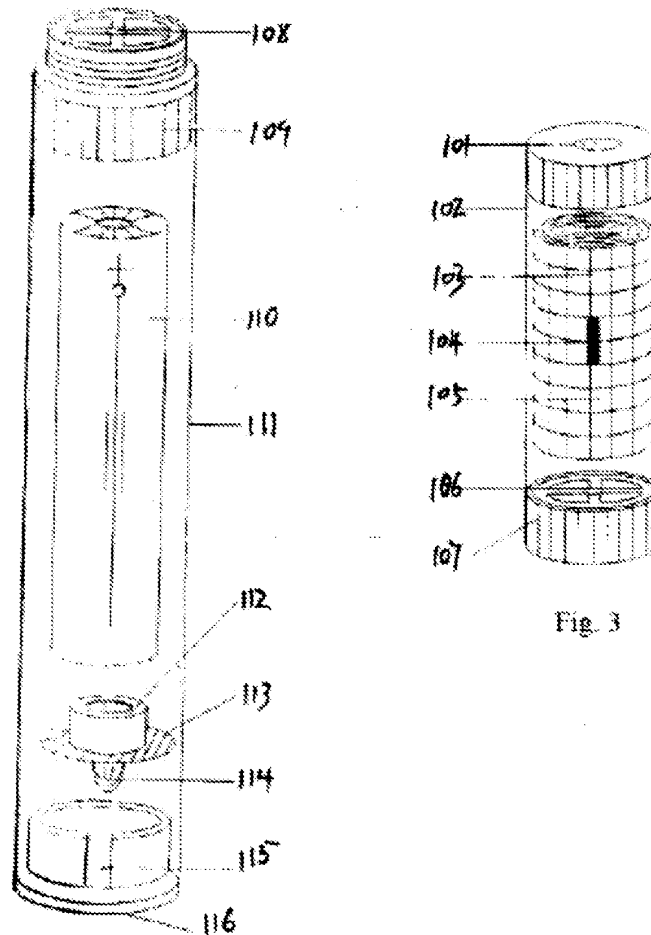
1 signal indicating lamp, 2 rechargeable lithium battery, 3 integrated circuit board, 4 electret microphone, 5 connecting conductor A, 6 connecting conductor B, 7 vibrating diaphragm, 8 liquid-blocking plate, 9 heater, 10 secondary liquid storage chamber, 11 liquid-guiding mechanism, 12 liquid storage chamber, 13 soft suction nozzle, 14 indicating lamp cover, 15 liquid blocking tank, 16 vent hole, 17 liquid blocking sealing cover.

Id.

2. Wang (Ex. 1005)

Wang, is a Chinese patent publication, titled “Electronic Pure Cigarette,” that discloses an electronic cigarette including a “cigarette holder part and a cigarette rod part.” Ex. 1005, codes (11), (54), (57); *see also id.* at 4 (“technical solution” is an electronic cigarette “compris[ing] a cigarette holder part and a cigarette rod part”).

Figures 2 and 3 of Wang are reproduced below.



Figures 2–3, shown above, are “schematic structural diagram[s] of a cigarette rod part in [the first embodiment]” (Figure 2) and “a cigarette holder part in [the first embodiment]” (Figure 3). *Id.* at 5.

Wang provides the following listing of the illustrated features:

an electronic pure cigarette comprises a cigarette rod consisting of a cigarette rod shell 111, a battery 110, a sensor 112, an indicating lamp 114, a circuit control board 113, an indicating lamp cover 116, an air inlet 115, an air outlet 108, an output end 109, and the like; and a cigarette holder consisting of a cigarette holder shell 102, an electric heater 104, a tobacco

extract 103, an organic fiber 105, an air inlet 106, an air outlet 101, an input end 107, and the like.

Id.

Rod shell 111 “is a hollow cylinder, providing a space for the battery 110, the sensor 112, the indicating lamp 114, the circuit control board 113 and wires to solder them.” *Id.* at 5–6. At one end of the shell “is one end of the air outlet 108 . . . connected to the input end of the cigarette holder along with the output end 109.” *Id.* at 6. At the other end of the shell “is one end of the air inlet 115 on the indicating lamp cover 116” and “forms an uninterrupted airflow channel together with a gap inside the shell 111.” *Id.* Sensor 112 “is a switch device that drives the circuit control board 113 and then drives the discharge output of the battery 110.” *Id.* “The sensor is used to collect airflow and pressure changes generated by smoking motions.” *Id.*

“The circuit control board judges a switching signal through the sensor 112, so as to supply power to the output end 109 and the indicating lamp 114, manage a voltage and current of the battery 110, and give corresponding prompts through the indicating lamp 114.” *Id.* “A core of the circuit control board 113 of the cigarette rod is an embedded chip.” *Id.*

“The cigarette holder shell 102 is a hollow cylinder with one end being one end of the air inlet 106, and is connected to the output end 109 of the cigarette rod together with the input end 107.” *Id.* at 7. “The other end is one end of the air outlet 101.” *Id.* “The interior of the shell 102 provides a space for the electric heater 104 and the tobacco extract 103 and organic fiber 105 wound around it, and also provides a space for smoke produced when the tobacco extract 103 in the organic fiber 105 is heated by the electric heater 104.” *Id.*

“The air inlet 115 of the cigarette rod, an internal gap of the cigarette rod, the air outlet 108 of the cigarette rod, the air inlet 106 of the cigarette holder, an internal gap of the cigarette holder and the air outlet 101 of the cigarette holder form the complete airflow channel.” *Id.* at 8. “The air outlet 101 of the cigarette holder is placed at the other end of the air inlet 106 of the cigarette holder . . . is a channel for finally sucking out smoke.” *Id.* at 8.

The inlets and outlets of the airflow channel can be varied. *Id.* at 6–7. “The air inlet 115 of the cigarette rod may be placed in the middle or on a side of the indicating lamp cover 116, and may also be opened in the side of the shell 111.” *Id.* at 6 “The air outlet 108 of the cigarette rod is placed in the middle or on a side of the output end 109.” *Id.* “The air inlet 106 of the cigarette holder is placed in the middle or on a side of the input end 107 of the cigarette holder.” *Id.* at 7. “The air outlet 101 of the cigarette holder may be integrated with the cigarette holder shell 102 or may be separated.” *Id.* at 8.

3. *Fang (Ex. 1006)*

Fang is a Chinese patent publication, titled “Electronic Cigarette,” that discloses an electronic cigarette including a “fuming device control switch and . . . nicotine oil fuming device . . . sequentially nested in the cigarette rod shell.” Ex. 1006, codes (11), (54), 4; *id.* at 4 (“technical solution”), 6 (“to increase a storage amount of nicotine oil, the oil conservator 7 is nested”).

Figure 1 of Fang is reproduced below.

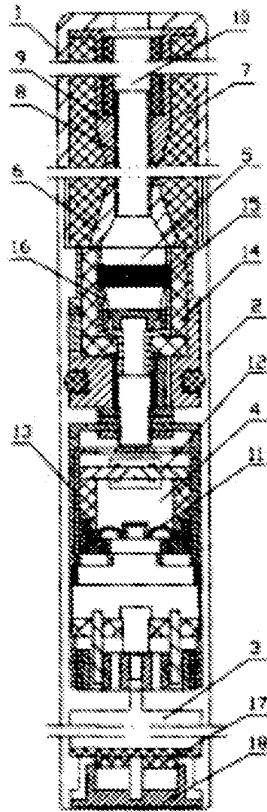


Figure 1 of Fang above depicts a “schematic diagram of the utility model.” *Id.* at 5.

Fang provides the following listing of the illustrated features:

1 sucker, 2 cigarette rod shell, 3 battery, 4 fuming device control switch, 5 nicotine oil fuming device, 6 waterproof sleeve with bell mouth, 7 oil conservator, 8 gas pipe, 9 gas pipe support, 10 smoking channel, 11 silicon film-coated tablet, 12 switch circuit board, 13 support, 14 oil storage device, 15 temporary oil storage device, 16 electric heating film wire, 17 luminous display panel, 18 lamp cover.

Id.

Fang describes the assemblage of the components as follows:

A nicotine oil storage sleeve 7 is nested in the sucker 1, a gas pipe 8 is nested in the center of the evaporation oil storage sleeve 7, the gas pipe 8 is connected with a gas pipe support 9, the gas pipe 8 and the gas pipe support 9 form a smoking channel 10 with the center of the sucker 1 being separated and closed from the oil conservator 7, and the other end of the smoke sucking pipe 8 is communicated with the nicotine oil fuming device 5.

Id.

F. Claims 1–48 – Alleged Obviousness over Xia alone, Xia and Wang, or Xia, Wang, and Fang

Petitioner contends claims 1–48 of the '864 patent are unpatentable as obvious over Xia alone, over Xia in view of Wang, or over Xia in view of Wang and Fang. Pet. 30–90; Reply 1–4. Patent Owner opposes. Prelim. Resp. 25–44; Sur-reply 1–4.

1. Claim 1

a) Petitioner's Contentions

The preamble and claim elements 1[a1] and [1a2] recite:

1[p] A cartridge configured to couple to a power source of an electronic vaporizer, the cartridge comprising:

1[a1] a housing having an interior and a solution holding medium adapted to hold a solution,

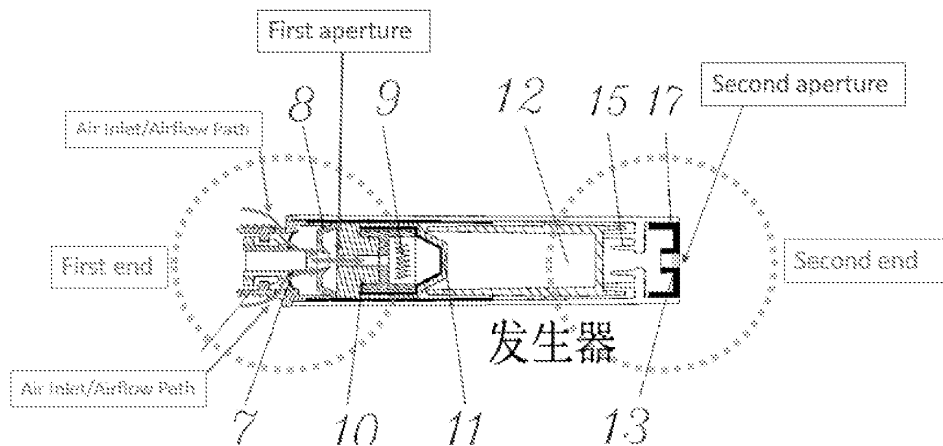
Petitioner asserts that Xia's "generator" shown in Xia Figure 2 is a cartridge that is configured to couple (through connectors A5 and B6) to a power source (i.e., battery) as recited in the preamble. Pet. 30–31 (citing Ex. 1004, Fig. 2; Ex. 1007 ¶¶ 71–72). Petitioner further asserts that Xia's generator (cartridge) has a stainless steel shell (housing) that has liquid storage chambers 10 and 12 (individually or collectively a "solution holding medium adapted to hold a solution"), thus disclosing the housing having an

interior and solution holding medium of claim element 1[a1]. Pet. 34–35 (citing Ex. 1004, 3, 6–10, Fig. 2; Ex. 1007 ¶¶ 76, 78).

Claim element 1[a2] recites:

1[a2] the housing having a first end and a second end that is opposite the first end, the housing having a first aperture proximate the first end and a second aperture proximate the second end.

Petitioner argues that Xia, or Xia with Wang or Fang discloses or suggests this claim element. Pet. 35–39. Petitioner first asserts that Xia’s Figure 2, shown below with Petitioner’s annotations added, discloses or suggests element 1[a2]. Pet. 38 (citing Ex. 1004, Fig. 2).



A portion of Xia Figure 2, shown above with Petitioner’s annotations added, depicts a schematic structural diagram of a portion of an electronic cigarette. Ex. 1004, 9; Pet. 38.

According to Petitioner, annotated Figure 2 demonstrates the location of the first end (circled in red dotted line), first aperture (purple), air inlet/airflow path, second end, and second aperture as required by claim element 1[a2]. Pet. 37–38. Petitioner also states that if the claimed first

aperture must be closer to the edge and surface of the first cartridge end, that it would have been obvious to reposition Xia's first aperture to do so.

Pet. 38–39. Petitioner states that that it would have been obvious to modify Xia's cartridge to include the known airflow passageway of Wang. *Id.* Petitioner further asserts that in this combination, Wang discloses this limitation because Wang's first and second apertures are proximate the first and second cartridge ends. Pet. 39 (citing Pet. "Ground 2 elements 1[a2] and 1[c]").

Petitioner further asserts that "if the apertures are required to be literally on very edges of the cartridge, that would be an obvious modification under Xia and/or Wang and/or Fang, as it would merely require extension of the passageway to the very edge of the housing, with a central aperture (already present in Wang, and in Fang), which would also allow the solution holding medium to be extended to the edge of the housing as well, increasing liquid storage capacity as explained in Ground 2, 1[c]." Pet. 39 (citing Ex. 1007 ¶¶ 91–100, 137–160, 307–317).

Claim element 1[a3] requires that "the first end of the housing being adapted to electrically couple to the power source." Petitioner asserts that Xia's disclosure of cartridge housing that includes an electrically conductive portion (conductor A5) that is mechanically and electrically coupled to the conductive portion of the power source (e.g., conductor B6) discloses this limitation. Pet. 39–41 (citing Ex. 1004, 7, 9, 10, 12, Fig. 3; Ex. 1007 ¶ 104).

Claim element 1[a4] requires that the first aperture and the second aperture being in communication with one another to permit an airflow through the housing from the first aperture to the second aperture. Petitioner asserts that first and second apertures of Xia, or the modified devices of Xia

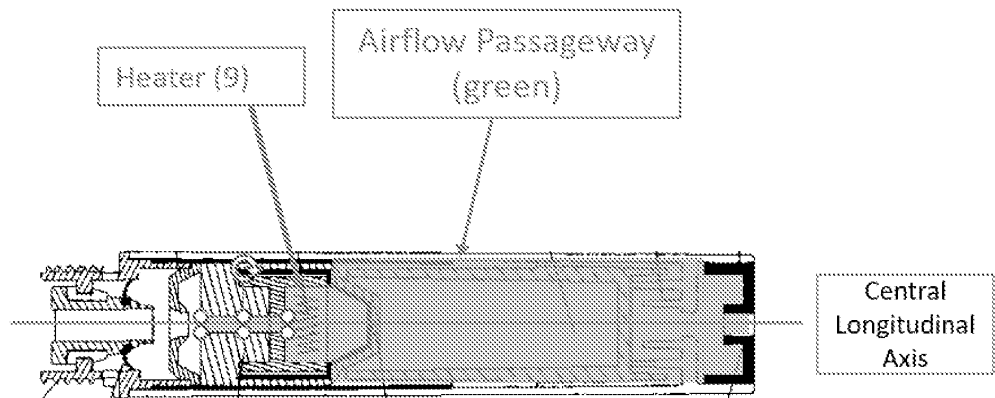
with Wang and/or Fang are in communication with each other, because this is how air flows from one end of Xia's cartridge to the other. Pet. 42–43 (citing Ex. 1007 ¶¶ 107–110; Ex. 1004, Fig. 2).

Claim elements 1[b1] and 1[b2] recite:

1[b1] a heating element located in the interior of the housing, the heating element extending transversely to a central longitudinal axis of the housing and being at least partially exposed to the airflow,

1[b2]: the heating element being configured to vaporize at least a portion of the solution for oral provision to an individual in the airflow, the heating element being responsive to electrical power received from the power source

Petitioner maps Xia's heater 9 to these claim elements, asserting that heater 9, shown below in Xia's Figure 2, with annotations added, is located in the interior of Xia's housing of the generator and within the airflow passageway, identified below in green. Pet. 42–45 (citing Ex. 1004, Fig. 2, 9–10, 13–14; Ex. 1007 ¶¶ 107–111, 113–115).



A portion of Xia Figure 2, shown above, depicts a schematic structural diagram of a portion of an electronic cigarette, with Petitioner's annotations of heater (9), airflow passageway (green) and central longitudinal axis (blue) added. Ex. 1004, 9; Pet. 45.

Petitioner asserts that Xia's heating element vaporizes the solution as required by claim element 1[b2]. Pet. 48–49 (citing Ex. 1004, 5, 8–10, 13–14, 16, Fig. 5; Ex. 1007 ¶¶ 123–128).

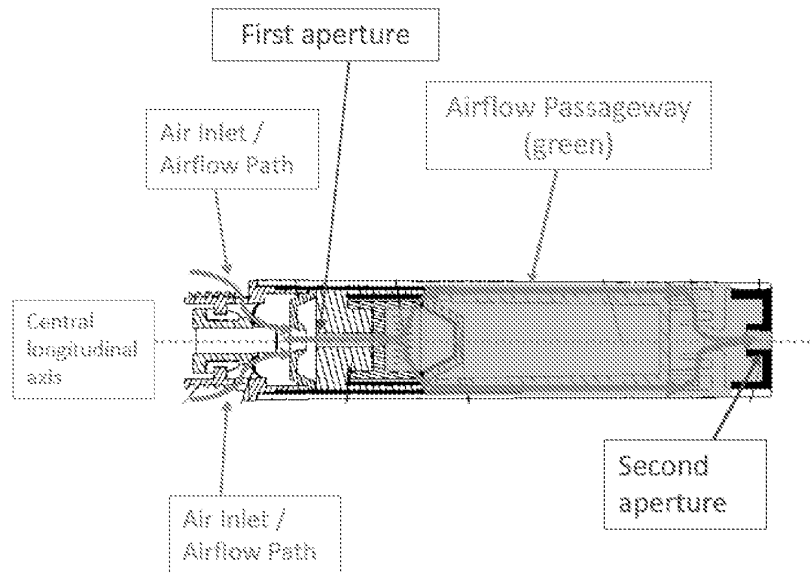
Claim elements 1[c] and 1[d] recite:

1[c] an airflow passageway in the housing, at least a portion of the airflow passageway extending centrally and axially with respect to the housing;

1[d] wherein the airflow passageway extends centrally and axially from the first aperture to the second aperture.

Petitioner asserts that Xia (Pet. 49–54, 65–66), Xia and Wang (Pet. 54–62, 66), or Xia and Wang with Fang (Pet. 62–66) teach these claim elements.

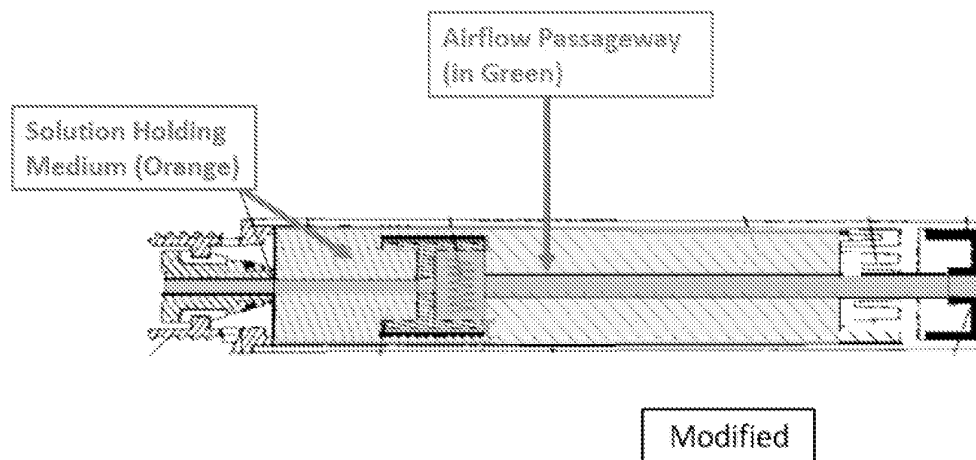
Petitioner first contends that Xia Figure 2, shown below with Petitioner's annotations added, discloses an airflow passageway (green), at least a portion of which extends centrally and axially with respect to the housing, as required by claim element 1[c] (Pet. 51–52) and centrally and axially from first to second aperture as required by claim element 1[d] (Pet. 66).



A portion of Xia Figure 2, shown above depicts a schematic structural diagram of a portion of an electronic cigarette, with Petitioner's annotations of first aperture (purple), air inlet/airflow path (red), airflow passageway (green) and central longitudinal axis (blue) added. Ex. 1004, 9; Pet. 52, 66.

Petitioner states that if Patent Owner contends that Xia's airflow passageway is not centrally and axially located because air within the passageway flows around certain items, such as the liquid storage container 12, rather than in a straight line, then Patent Owner's argument would be inconsistent with Patent Owner's assertions in the co-pending ITC investigation and the M.D.N.C. Litigation. Pet. 52 (citing Ex. 1007 ¶ 133). Petitioner also points to the summary judgment decision the M.D.N.C. Litigation as stating the presence of certain structures (i.e., a "positive pin and silicon base") that may obstruct airflow and alter the airflow's path, do not alter the interior airflow passageway, which at all times extends straight through the center of the accused cartridge to the second end. Pet. 53 (citing Ex. 1015, 14–18; Ex. 1007 ¶ 136).

Petitioner also asserts that in Xia, at least in the part of the device near the heating element, the airflow passageway is inset from the walls of the housing centrally and axially, with the solution medium 10 surrounding it. Pet. 54–55 (citing Ex. 1004, 4, Fig. 4; Ex. 1007 ¶¶ 136–137). Petitioner contends that although Xia’s inventors chose to place the remaining storage holding medium (i.e., element 12) in the center of the airflow passageway such that air flows around it, that another obvious alternative would have been the modified device shown in Xia’s modified Figure 2 reproduced below.



A portion of Xia Figure 2, shown above, depicts a schematic structural diagram of a portion of an electronic cigarette, with Petitioner’s modifications to show modified solution holding medium (orange) and airflow passageway (green). Ex. 1004, 9; Pet. 57.

Petitioner asserts that this obvious modification would make the existing architecture in the heating element consistent and run along the length of the cartridge. Pet. 57 (citing Ex. 1007 ¶¶ 136–137).

Petitioner also asserts that Xia teaches use of a central passageway extending through a solution holding medium. Pet. 57–60. Petitioner

contends it would have been obvious to modify Xia to include Wang’s passageway arrangement, which “extends centrally and axially with respect to the housing intermediate of the first aperture on the housing’s first end and the second aperture on the housing’s second end,” to provide smoother airflow without pinch points, better temperature control, and vapor content, as well as being simpler and cheaper to design and manufacture. Pet. 59–61 (citing, *inter alia*, Ex. 1007 ¶¶ 137, 141); *see also* Pet. 61–62 (stating such a modification would move the liquid blocking plate to the end of the secondary liquid storage chamber, and that the modification would result in predictable results with a reasonable expectation of success, would have fewer parts, and would be easier to manufacture (citing Ex. 1007 ¶¶ 145–150; Ex. 1004, 13)).

Petitioner also asserts that it would have been obvious to use Fang’s passageway—in which air flows directly down the center of the device through, *inter alia*, gas pipe (8) and smoking channel (10)—in place of Xia’s or Wang’s airflow passageway as a simple substitution of a known element to yield predictable results. Pet. 62–65 (citing Ex. 1007 ¶¶ 152, 155–160; Ex. 1004, 4, 6, Fig. 1).

b) Patent Owner’s Arguments

Patent Owner argues that none of Xia, Wang, or Fang disclose a “housing having a first aperture.” Prelim. Resp. 25. Patent Owner further asserts that Petitioner fails to articulate an adequate motivation to combine. *Id.*

With respect to Xia alone, Patent Owner argues that Petitioner identified Xia’s stainless steel shell as the housing, but points to the hole in

“secondary liquid storage chamber 10” for the claimed “first aperture.” *Id.* at 26.

With respect to Wang, Patent Owner asserts that the first (and second) aperture identified by Petitioner is organic fiber 105, which is in the liquid storage material, not the housing. *Id.* at 29. Patent Owner also asserts that the organic fiber does not have any aperture at all, but is merely wound around an electric heater. *Id.* at 29–31 (citing Ex. 1005, 7, Fig. 5; Ex. 1029, Fig. 5; Ex. 1017 (“Wang declaration”) ¶ 10).

With respect to Fang, Patent Owner asserts that Fang is a single, not two-piece device, and thus does not have a separate cartridge as required by the claims. *Id.* at 32–33.

With respect to the proposed combination of references, Patent Owner argues that Petitioner fails to account “for the significant differences between these devices,” because each device “has substantially different mechanisms for transporting and vaporizing liquid.” *Id.* at 37. “These different mechanisms necessitate substantially different physical arrangements,” and a “POSITA cannot simply swap one element for another.” *Id.* at 40. “By extending the aperture to the very edge of the housing, Petitioner is altering the entire air intake system of Xia,” which Patent Owner alleges “results in an inoperable device.” *Id.* at 42–44.

c) Analysis

On this record, we are persuaded that Petitioner meets its burden to demonstrate a reasonable likelihood of prevailing on its Xia-based obviousness arguments. With reference to our claim construction of the “first aperture on the first end” of the housing, *supra*, we agree that Petitioner has demonstrated, on this record, that Xia has (1) a “*housing*

having a first aperture on the first end” and that Xia’s (2) “housing having a first aperture *on the first end*,” more particularly, that Xia’s first aperture is sufficiently located on the first end of Xia’s housing. Pet. 10–12, 32–35. Notwithstanding Patent Owner’s arguments to the contrary, namely, that Petitioner’s “first aperture” “is not in Xia’s stainless steel shell,” nor “is that aperture at the first end of the housing” (Prelim. Resp. 25–27), the record before us supports Petitioner’s position and claim construction at this stage in the proceeding. Again, the parties are invited to address claim construction of “housing having a first aperture” during trial.

We have concerns as to whether Petitioner sufficiently shows a reason to modify Xia in view of Wang and/or Fang, including showing *why* a POSITA would have extended Xia’s passageway to the very end of the housing. *See generally* Pet.; *see also* 37 C.F.R. § 42.22(a)(2) (stating that the petition must contain a full statement of the reasons for the relief requested, including a detailed explanation of the significance of the evidence). We also have concerns as to whether Mr. Sturges provides sufficient support for his contentions. *See, e.g.*, Ex. 1007 ¶ 91 (stating that a POSITA would have been motivated to modify Xia’s cartridge “to be simpler, thereby making its manufacturing process easier to conduct and cheaper to fund”). However, because we institute *inter partes* review on at least one claim, we institute on all claims. *SAS*, 138 S. Ct. at 1353 (“The agency cannot curate the claims at issue but must decide them all.”).

2. *Claims 2–48*

Petitioner presents additional arguments for obviousness of claims 2–48 based on Xia alone, and based on the combination of Xia with Wang with Fang. Pet. 67–90. In view of our determination that Petitioner establishes a

reasonable likelihood for claim 1, and because Petitioner’s arguments and evidence for remaining claims 2–48 (Pet. 67–90) are similar to Petitioner’s arguments and evidence for claim 1 (Pet. 30–66), we determine that it is unnecessary to provide an express analysis of Petitioner’s challenges to the remaining claims in order to provide guidance to the parties for the upcoming trial. Consolidated Trial Practice Guide November 2019 (“CTPG”)⁹ at 64; *see* 37 C.F.R. § 42.108(a) (“When instituting *inter partes* review, the Board will authorize the review to proceed on all of the challenged claims and on all grounds of unpatentability asserted for each claim.”); *see also* *SAS*, 138 S. Ct. at 1359–60 (holding that 35 U.S.C. § 314 forbids the Board’s prior “partial institution” practice).

*G. Claims 1–48 – Wang alone or in combination
with Fang (Ground 2)*

Petitioner contends claims 1–48 of the ’864 patent are unpatentable as obvious over Wang alone or in combination with Fang. Pet. 91–121; Reply 1–4. Patent Owner opposes. Prelim. Resp. 44–47; Sur-reply 1–4.

1. Claim 1

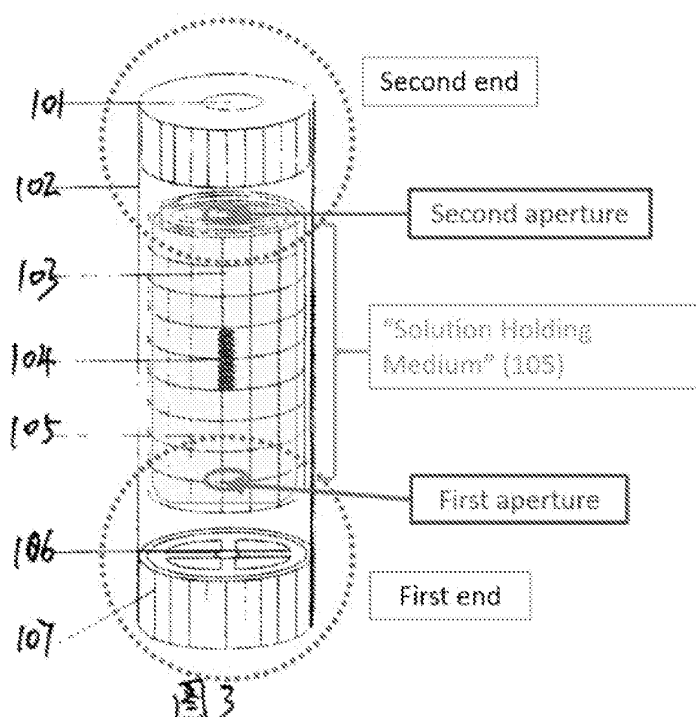
a) Petitioner’s Arguments

Petitioner argues that Wang or Wang in combination with Fang teaches or suggests all of the limitations of claim 1. In particular, Petitioner asserts that Wang discloses a cartridge (“cigarette holder part” 102) as recited in the preamble. Pet. 91 (citing Ex. 1005, Fig. 1). Petitioner also asserts that Wang’s cigarette holder shell 102 is a housing having organic fiber 105 (an interior solution holding medium) adapted to hold a solution as recited in claim element 1[a1]. Pet. 91–92 (citing, *inter alia*, Ex. 1005,

⁹ Available at <https://www.uspto.gov/TrialPracticeGuideConsolidated>.

Fig. 3; Ex. 1007 ¶¶ 272–274). Petitioner asserts that Fang also discloses a solution holding medium as required by claim element 1[a1]. Pet. 92 (citing Ex. 1007 ¶ 279).

Regarding claim element 1[a2], Petitioner asserts that, as shown in annotated Figure 3 of Wang below, Wang’s housing has first and second ends, a first aperture proximate the housing’s first end and a second aperture proximate the housing’s second end. Pet. 91–92 (citing Ex. 1005, Fig. 3; Ex. 1007 ¶ 280).



Wang’s Figure 3, with annotations added by Petitioner, depicts an amplified schematic structural diagram of a cigarette holder. Ex. 1005, 12.

Petitioner asserts that Wang’s element 107 in cartridge 102 provides electrical coupling to the power source (e.g., electrode 117) as required by

claim element 1[a3]. Pet. 94–95 (citing Ex. 1005, 9; Ex. 1017, 4–5; Ex. 1007 ¶¶ 281–284).

Petitioner asserts that Wang teaches the airflow through the housing from the first to the second aperture as required by claim element 1[a4] because air enters Wang’s cartridge through air inlet 106, flows into the gap in the rolled organic fiber, which contains tobacco extract, draws liquid in toward the heater, flows over heater 104, combines with the vaporized tobacco extract from heater 104 and exits to the user via air outlet 101. Pet. 95 (citing Ex. 1005, 7–8; Ex. 1007 ¶¶ 286–290). Petitioner also states that “[a]s established,” it would have been obvious to use Fang’s claimed airflow passageway in place of Wang’s passageway. Pet. 96 (citing Ex. 1007 ¶ 291).

Petitioner further asserts that Wang’s heater 104 is a heating element that is located interior of the housing and extends transversely to a central longitudinal axis as required by claim elements 1[b1] and 1[b2]. Pet. 96–97 (citing Ex. 1005, Fig. 3; Ex. 1007 ¶¶ 292–294), 99–100 (citing Ex. 1005, 8, Fig. 3; Ex. 1007 ¶¶ 301–302, 305–306). Petitioner further asserts that to the extent Wang does not disclose a heating element that extends transversely to a central longitudinal axis of the housing that is at least partially exposed to the airflow, as required by claim element 1[b1], Wang in view Fang does. Pet. 97–99. Citing to its arguments set forth regarding claim element 1[c] in its Xia based grounds, Petitioner asserts that Fang’s heating element 16 is a transverse heating element that is at least partially exposed to airflow. Pet. 97–98 (citing Ex. 1006, Fig. 1; Ex. 1007 ¶¶ 295–296). Petitioner asserts that it would have been a simple design choice to modify Wang to contain Fang’s heating element and solution holding medium to increase the heater’s

surface area contacting the airflow and nicotine solution and to provide a wider airflow passageway, and reduce length of the electronic cigarette for increased portability. Pet. 98–99 (citing Ex. 1007 ¶¶ 298–298). Petitioner further asserts that a POSITA would have known of the benefits of adopting Fang’s wick and heating element. Pet. 99 (citing Ex. 1007 ¶ 300).

Petitioner asserts that Wang discloses the airflow passageway in the housing that extends centrally and axially from the first aperture to the second aperture as required by claim elements 1[c] and 1[d]. Pet. 101, 104 (citing to its Ground 1 arguments). For example, Petitioner asserts that Wang’s central air passageway extends through absorbent organic fiber 105 (solution holding medium). Pet. 57–61 (citing, *inter alia*, Ex. 1005, Figs. 2–3, 5; Ex. 1007 ¶¶ 138–139; Ex. 1017, 4–5; Ex. 1029, Figs. 2–3). Petitioner asserts that the airflow passes directly through the center via the space provided by rolling the organic fiber around the heating element, in order to reach the centrally located heating element and then reach the second aperture. Pet. 60 (citing Ex. 1005, 8, Fig. 3).

b) Patent Owner’s Arguments

Patent Owner argues that “Petitioner fails to identify (1) a “**housing having a first aperture** on the first end” in either Fang or Wang” and, thus, “Wang cannot anticipate the challenged claims.” Prelim. Resp. 44. We understand Petitioner’s Ground 2 to be an obviousness ground. Pet. 7. Although Patent Owner characterizes this argument as “Wang anticipates the challenged claims” (Prelim. Resp. 44), we do not apply principles of anticipation.

Patent Owner also argues that Petitioner has failed to carry its burden regarding “Wang as single reference obviousness,” because “Petitioner does

not argue that it would have been obvious for *the housing* to have first or second apertures,” and “at most, Petitioner argues that it would have been obvious to extend the liquid storage of Wang to the cartridge ends” but does not suggest “moving its ‘first aperture’ to the housing.” Prelim. Resp. 44–45. Patent Owner also argues that Wang does not have a “heating element extending transversely to a central longitudinal axis” as required by claim element 1[b1]. Prelim. Resp. 45; *see also id.* at 19–21 (stating that Wang does not expressly disclose an airflow passageway through the organic fiber); *see also id.* at 21–22 (stating the Wang declaration should be disregarded as Mr. Wang is not a credible declarant)

c) Analysis

On this record, we are persuaded that Petitioner meets its burden to demonstrate a reasonable likelihood of prevailing on its Wang-based obviousness argument. As explained above, at this stage of the proceeding, we construe the term “housing having a first aperture” to encompass an aperture that is located within the interior of the housing, and the term does not require that the aperture be located in the housing itself. Thus, Patent Owner’s arguments that Petitioner fails to suggest moving Wang’s first aperture to the housing (Prelim. Resp. 45) and that Fang does not remedy this deficiency is not persuasive at this stage of the proceeding. We agree that Petitioner has demonstrated, on this record, that Wang teaches a housing having a first aperture proximate the first end of the housing because the asserted first aperture of Wang, located within the asserted housing, is located proximate the first end of Wang’s housing. Pet. 93–94.

Petitioner has also provided sufficient argument that a POSITA would have understood that Wang’s wound organic fiber has a central channel that

acts as an airflow passageway. *See, e.g.*, Pet. 57–61; Ex. 1029, Figs. 3, 5; Ex. 1005, Figs. 3, 5). Patent Owner’s arguments to the contrary raise issues best resolved on a full record.

With respect to Petitioner’s argument that Wang’s heating element is transverse to airflow, we acknowledge Patent Owner’s argument that Petitioner’s interpretation of the term “transverse” “seemingly argues that every heating element has a transverse dimension” (Prelim Resp. 45), but in the absence of evidence or additional argument from Patent Owner, we find sufficient on this record Petitioner’s argument and evidence supporting its interpretation of “transverse” and Wang’s alleged disclosure of a transverse heating element. Pet. 95–96 (citing Ex. 1001, 6:64–7:2; Ex. 1005, Fig. 3; Ex. 1007 ¶¶ 293–294). We have reviewed, and agree with, Petitioner’s remaining contentions regarding claim 1, which are not disputed at this stage of the proceeding. Accordingly, we determine that Petitioner has sufficiently shown a reasonable likelihood that it will prevail in showing that claim 1 would have been obvious over Wang.

Regarding Patent Owner’s arguments that Petitioner has not sufficiently shown that the combination of Wang and Fang teach the apertures of claim element 1[a2] or the airflow passageway of claim element 1[c] (Prelim. Resp. 46–47), these arguments are not persuasive at this stage of the proceeding. As explained above, Petitioner sufficiently shows that Wang teaches these claim elements.

2. Remaining Claims

Petitioner presents additional arguments for obviousness of claims 2–48 based on Wang alone, and based on the combination of Wang with Fang. Pet. 105–121. In view of our determination that Petitioner establishes a

reasonable likelihood for claim 1, and because Petitioner’s arguments and evidence for remaining claims 2–48 (Pet. 105–121) are similar to Petitioner’s arguments and evidence for claim 1 (Pet. 91–104) and are unopposed at this stage by Patent Owner, we determine that it is unnecessary to provide an express analysis of Petitioner’s challenges to the remaining claims in order to provide guidance to the parties for the upcoming trial. CTPG 64; 37 C.F.R. § 42.108(a) (“When instituting *inter partes* review, the Board will authorize the review to proceed on all of the challenged claims and on all grounds of unpatentability asserted for each claim.”); *see also* *SAS*, 138 S. Ct. at 1359–60 (holding that 35 U.S.C. § 314 forbids the Board’s prior “partial institution” practice).

H. Word Count

We also consider Patent Owner’s argument that the Petition should be denied because a column providing a “short hand description of each claim limitation” in Petitioner’s listing of claims puts the total word count of the Petition above the 14,000 word limit. Prelim. Resp. 53–54 (citing Pet. 7–23; 37 C.F.R. § 42.24); *see also* Pet. i–xvii (providing a table of challenged claims).

We decline to deny the Petition for this reason. Although the text in the shorthand column of Petitioner’s claim listing table does bring the total number of pages to over 14,000, the column does not contain any substantive argument. Rather, the column merely provides a shorthand notation of how Petitioner refers to the claim elements within the Petition’s headings. As the table and the Petition’s headings also refer to claim element numbers (i.e., claim element 1[a1]), the shorthand notations are not necessary to understand the Petition’s headings. As such, the text recited in

the shorthand column was not necessary to render this decision.

Additionally, we determine that shorthand column was added to aid the Board's review of the Petition and for this additional reason, the additional text in the shorthand column does not warrant denial of the Petition.

III. CONCLUSION

Because Petitioner has demonstrated a reasonable likelihood that at least one challenged claim of the '864 patent is unpatentable over the prior art of record, we institute an *inter partes* review of all challenged claims on all asserted grounds.

At this stage of the proceeding, we have not made a final determination with respect to the patentability of any challenged claim or any underlying factual or legal issue, including claim construction.

IV. ORDER

For the reasons given, it is:

ORDERED that, pursuant to 35 U.S.C. § 314(a), an *inter partes* review of claims 1–48 of the '864 patent is instituted with respect to all grounds of unpatentability asserted in the Petition; and

FURTHER ORDERED that, pursuant to 35 U.S.C. § 314(c) and 37 C.F.R. § 42.4, notice is hereby given of the institution of trial, which will commence on the entry date of this Decision.

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Patent 11,497,864 B2

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