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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/594,813	08/25/2012	Gregory D. Conley	269.0003-00000

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

CONFIRMATION NO. 1027
POWER OF ATTORNEY NOTICE



OC000000061051459

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- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. 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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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/594,813	08/25/2012	Gregory D. Conley	269.0003-00000

CONFIRMATION NO. 1027

POA ACCEPTANCE LETTER



OC000000061051532

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/

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

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

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	13/594,813
Filing Date	August 25, 2012
First Named Inventor	Gregory D. CONLEY
Title	Electronic Vaporizer
Art Unit	3742
Examiner Name	Thor S. Campbell
Attorney Docket Number	24000FM-000001-US-CPA

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 1 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 either the attached transmittal letter or the boxes below.

Application Number	Filing Date

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

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

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 Leister

Date (Optional)

7/29/2023

Name

Shannon Leister

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(b)

Applicant/Patent Owner: Gregory D. Conley et al.

Application No./Patent No.: 8,897,628 Filed/Issue Date: November 25, 2014

Titled: Electronic Vaporizer

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

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;
2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)
the patent application/patent identified above, by virtue of either:
 - 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 a copy* is attached.

OR

- 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 040369, Frame 0921, or a copy* is attached.
2. From: FUMA International, LLC To: NJOY, LLC
The document was recorded in the United States Patent and Trademark Office at
Reel 064618, Frame 0740, or a copy* is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or 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(b)(1)(i), if a copy/copies is/are attached, 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 302.1]

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

/Gary D. Yacura/
Signature

August 22, 2023
Date

Gary D. Yacura
Printed or Typed Name

Attorney for Assignee
Title or Registration Number

Electronic Acknowledgement Receipt	
EFS ID:	48472803
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
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:	269.0003-00000
Receipt Date:	22-AUG-2023
Filing Date:	25-AUG-2012
Time Stamp:	12:48:11
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	15781	no	1
			81015d34009474046b0df2815e96d4d16272ca53		

Warnings:

Information:					
2	Power of Attorney	POA.pdf	431428	no	1
			8ccd491687eb76dfa562899ef76ab8b223cb373		
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73	2023_08_22_373b.pdf	19623	no	1
			52c3b992c3e3683c58c5262634d559955a6e274e		
Warnings:					
Information:					
Total Files Size (in bytes):			466832		
<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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	08/25/2012	Gregory D. Conley	269.0003-00000	1027
22882	7590	11/15/2022		
MARTIN & FERRARO, LLP 1557 LAKE O'PINES STREET, NE HARTVILLE, OH 44632			EXAMINER CAMPBELL, THOR S	
			ART UNIT	PAPER NUMBER
			3742	
			NOTIFICATION DATE	DELIVERY MODE
			11/15/2022	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



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 8,897,628 :
Issue Date: November 25, 2014 : NOTICE
Application No. 13/594,813 :
Filed: August 25, 2012 :
For: ELECTRONIC VAPORIZER :

This is a Notice regarding the renewed request for acceptance of a fee deficiency submission under 37 CFR 1.28(c) filed September 1, 2022, and supplemented on October 6, 2022.

The Office no longer investigates or rejects original or reissue applications under 37 CFR 1.56. 1098 Off. Gaz. Pat. Office 502 (January 3, 1989). Therefore, nothing in this Notice is intended to imply that an investigation was done.

The fee deficiency submission under 37 CFR 1.28(c) is **ACCEPTED**. Accordingly, status as a small entity has been removed and any future fee(s) submitted must be paid at the undiscounted rate.

Inquiries related to this communication should be directed to Ann Marie Ziegler at (571) 272-7151.

/Andrea Smith/

Andrea Smith
Lead Paralegal Specialist, Office of Petitions

**NJOY Exhibit 2041.009
Juul v. NJOY
IPR2024-00161**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 1027
Gregory D. Conley et al.	)	
Patent No. 8,897,628	)	
Serial No.: 13/594,813	)	Group Art Unit: 3742
Filed: August 25, 2012	)	Examiner: Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	
	)	

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

Sir:

RENEWED REQUEST FOR ACCEPTANCE OF FEE DEFICIENCY

This submission is in response to the Notice of October 6, 2022, and is provided to correct the Request for Acceptance of Fee Deficiency under 37 C.F.R. § 1.28(c)(2) filed September 1, 2022.

On May 25, 2022, Applicant inadvertently had the small entity 7.5-year maintenance fee of \$1,880.00 paid in the above-referenced case. The non-small entity fee for the 7.5-year maintenance fee should have been paid instead. The non-small entity 7.5-year maintenance fee is \$3,760.00. Therefore, the resulting fee deficiency owed for the difference of the 7.5-year maintenance fee as between non-small entity and small entity is \$1,880.00. Please charge \$1,880.00 to cover the fee deficiency to our Deposit Account No. 60-4357. The undersigned was added to Deposit Account No. 60-4357 as an administrator on October 5, 2022.

Please charge any additional fees required to enter this paper and credit any overpayments to our Deposit Account No. 60-4357.

Respectfully submitted,
MARTIN & FERRARO, LLP

Date: October 6, 2022

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

**NJOY Exhibit 2041.010
Juul v. NJOY
IPR2024-00161**

Electronic Acknowledgement Receipt	
EFS ID:	46766243
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
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:	269.0003-00000
Receipt Date:	06-OCT-2022
Filing Date:	25-AUG-2012
Time Stamp:	12:21:28
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	Petition for review by the Office of Petitions	Renewed_Request.pdf	63250	no	1
			35ff8dd4428875f94fca14594ba73d8ad7f4bd83		

Warnings:

Information:	
Total Files Size (in bytes):	63250
<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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	08/25/2012	Gregory D. Conley	269.0003-00000	1027
22882	7590	10/06/2022		
MARTIN & FERRARO, LLP 1557 LAKE O'PINES STREET, NE HARTVILLE, OH 44632			EXAMINER CAMPBELL, THOR S	
			ART UNIT	PAPER NUMBER
			3742	
			NOTIFICATION DATE	DELIVERY MODE
			10/06/2022	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



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 8,897,628 :
Issue Date: November 25, 2014 : NOTICE
Application No. 13/594,813 :
Filed: August 25, 2012 :
For: ELECTRONIC VAPORIZER :

This is a Notice regarding the renewed request for acceptance of a fee deficiency submission under 37 CFR 1.28(c) filed September 1, 2022.

The Office no longer investigates or rejects original or reissue applications under 37 CFR 1.56. 1098 Off. Gaz. Pat. Office 502 (January 3, 1989). Therefore, nothing in this Notice is intended to imply that an investigation was done.

The fee deficiency submission under 37 CFR 1.28(c) is **NOT ACCEPTED**.

Applicant should note that 37 CFR 1.28(c) states in part: If status as a small entity is established in good faith, and fees as a small entity are paid in good faith, in any application or patent, and it is later discovered that such status as a small entity was established in error, or that through error the Office was not notified of a loss of entitlement to small entity status as required by § 1.27(g)(2), the error will be excused upon compliance with the separate submission and itemization. *See* 37 CFR 1.28(c)(2)(ii).

The itemization must include the following information:

- (A) Each particular type of fee that was erroneously paid as a small entity, (e.g., basic statutory filing fee, two-month extension of time fee) along with the current fee amount for a non-small entity;
- (B) The small entity fee actually paid, and when. This will permit the Office to differentiate, for example, between two one-month extension of time fees erroneously paid as a small entity but on different dates;
- (C) The deficiency owed amount (for each fee erroneously paid); and
- (D) The total deficiency payment owed, which is the sum or total of the individual deficiency owed amounts set forth in paragraph (c)(2)(ii) of this section.

NJOY Exhibit 2041.014
Juul v. NJOY
IPR2024-00161

The instant request does not fully comply with the itemization requirement of (D) as listed above.

The instant request cannot be accepted since the fee deficiency of \$1,880 has not been received. In this regard, Thomas M. Martin is not listed as an authorized user on the deposit account. Thus, the fee deficiency of \$1,880 is required. Petitioner is advised of typographical error listed in the request filed September 1, 2022, regarding authorized fee deficiency amount. The appropriate deficiency fee to be charged to the deposit account should be \$1,880 instead of \$1,800.

Applicant should submit the itemization within **ONE (1) MONTH** from the mail date of this Notice. This time limit is non-extendable. Failure to timely respond may result in the return of the fee deficiency paper, at the option of the Office.

Further correspondence with respect to this matter should be addressed as follows:

By mail: Mail Stop PETITION
 Commissioner for Patents
 P. O. Box 1450
 Alexandria, VA 22313-1450

By FAX: (571) 273-8300
 ATTN: Office of Petitions

By hand: U. S. Patent and Trademark Office
 Customer Service Window, Mail Stop Petitions
 Randolph Building
 401 Dulany Street
 Alexandria, VA 22314

By internet: EFS-Web¹

Inquiries related to this communication should be directed to Ann Ziegler at (571) 272-7151.

/Andrea Smith/

Andrea Smith
Lead Paralegal Specialist, Office of Petitions

¹ <http://portal.uspto.gov> (for help using EFS-Web call the Patent Electronic Business Center at (866) 217-9197).

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 1027
Gregory D. Conley et al.	)	
Patent No. 8,897,628	)	
Serial No.: 13/594,813	)	Group Art Unit: 3742
Filed: August 25, 2012	)	Examiner: Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	
	)	

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

Sir:

RENEWED REQUEST FOR ACCEPTANCE OF FEE DEFICIENCY

This submission is in response to the Notice of August 29, 2022, and is provided to correct the Request for Acceptance of Fee Deficiency under 37 C.F.R. § 1.28(c)(2) filed June 27, 2022.

On May 25, 2022, Applicant inadvertently had the small entity 7.5-year maintenance fee of \$1,880.00 paid in the above-referenced case. The non-small entity fee for the 7.5-year maintenance fee should have been paid instead. The non-small entity 7.5-year maintenance fee is \$3,760.00. Therefore, the resulting fee deficiency owed for the difference of the 7.5-year maintenance fee as between non-small entity and small entity is \$1,880.00. Please charge \$1,800.00 to cover the fee deficiency to our Deposit Account No. 60-4357.

Please charge any additional fees required to enter this paper and credit any overpayments to our Deposit Account No. 60-4357.

Respectfully submitted,
MARTIN & FERRARO, LLP

Date: September 1, 2022

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

**NJOY Exhibit 2041.016
Juul v. NJOY
IPR2024-00161**

Electronic Acknowledgement Receipt	
EFS ID:	46536811
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
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:	269.0003-00000
Receipt Date:	01-SEP-2022
Filing Date:	25-AUG-2012
Time Stamp:	15:25:05
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	Petition for review by the Office of Petitions	Renewed_Request_Fee_Deficiency.pdf	63308 a93360f440d4798c39179a954488895fd86b888d	no	1

Warnings:

Information:	
Total Files Size (in bytes):	63308
<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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	08/25/2012	Gregory D. Conley	269.0003-00000	1027
22882	7590	08/29/2022		
MARTIN & FERRARO, LLP 1557 LAKE O'PINES STREET, NE HARTVILLE, OH 44632			EXAMINER CAMPBELL, THOR S	
			ART UNIT	PAPER NUMBER
			3742	
			NOTIFICATION DATE	DELIVERY MODE
			08/29/2022	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



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 8,897,628 :
Issue Date: November 25, 2014 : NOTICE
Application No. 13/594,813 :
Filed: August 25, 2012 :
Title: ELECTRONIC VAPORIZER :

This is a Notice regarding the request for acceptance of a fee deficiency submission under 37 CFR 1.28(c) filed June 27, 2022.

The Office no longer investigates or rejects original or reissue applications under 37 CFR 1.56. 1098 Off. Gaz. Pat. Office 502 (January 3, 1989). Therefore, nothing in this Notice is intended to imply that an investigation was done.

The fee deficiency submission under 37 CFR 1.28(c) is **NOT ACCEPTED**.

Applicant should note that 37 CFR 1.28(c) states in part: If status as a small entity is established in good faith, and fees as a small entity are paid in good faith, in any application or patent, and it is later discovered that such status as a small entity was established in error, or that through error the Office was not notified of a loss of entitlement to small entity status as required by § 1.27(g)(2), the error will be excused upon compliance with the separate submission and itemization. *See* 37 CFR 1.28(c)(2)(ii).

The itemization must include the following information:

- (A) Each particular type of fee that was erroneously paid as a small entity, (e.g., basic statutory filing fee, two-month extension of time fee) along with the current fee amount for a non-small entity;
- (B) The small entity fee actually paid, and when. This will permit the Office to differentiate, for example, between two one-month extension of time fees erroneously paid as a small entity but on different dates;
- (C) The deficiency owed amount (for each fee erroneously paid); and

NJOY Exhibit 2041.020
Juul v. NJOY
IPR2024-00161

(D) The total deficiency payment owed, which is the sum or total of the individual deficiency owed amounts set forth in paragraph (c)(2)(ii) of this section.

The instant request does not fully comply with the itemization requirements of (A), (C) and (D) as listed above. Applicant failed to supply a proper itemization with the correct total deficiency payment owed. Specifically, the official file record does not indicate that a surcharge fee was ever paid in the above-identified application. Therefore, the deficiency amount owed and the total fee due should not include the surcharge fee, since it was not paid in the application. A proper itemization listing only the fees that were erroneously paid in error, should be submitted with a renewed request under 37 CFR 1.28(c).

Applicant should submit the itemization within **ONE (1) MONTH** from the mail date of this Notice. This time limit is non-extendable. Failure to timely respond may result in the return of the fee deficiency paper, at the option of the Office.

Further correspondence with respect to this matter should be addressed as follows:

By mail: Mail Stop PETITION
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

By FAX: (571) 273-8300
ATTN: Office of Petitions

By hand: U. S. Patent and Trademark Office
Customer Service Window, Mail Stop Petitions
Randolph Building
401 Dulany Street
Alexandria, VA 22314

By internet: EFS-Web¹

Telephone inquiries regarding this decision should be directed to Ann Marie Ziegler at (571) 272-7151.

/Andrea Smith/

Andrea Smith
Lead Paralegal Specialist, Office of Petitions

¹ <http://portal.uspto.gov> (for help using EFS-Web call the Patent Electronic Business Center at (866) 217-9197).

Please fax to: Status & Entity Branch, Office of Finance at 571-273-6500 or submit to:

Mail Stop M Correspondence
Director of the US Patent and Trademark Office
PO Box 1450
Alexandria, VA 22313-1450

Re: USA Application No. 13/594,813, Patent No. 8,897,628
Your Ref: 269.0003-00000

Please note that the referenced patent(s) qualify as a UNDISCOUNTED entity.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: August 11, 2022

By: /Thomas H. Martin/
Thomas H. Martin
Registration No. 34,383
Telephone: (330) 877-0700

NJOY Exhibit 2041.022
Juul v. NJOY
IPR2024-00161

Electronic Acknowledgement Receipt	
EFS ID:	46389851
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	22882
Filer:	Wesley Charles Meinerding/Sandra Blackmon
Filer Authorized By:	Wesley Charles Meinerding
Attorney Docket Number:	269.0003-00000
Receipt Date:	11-AUG-2022
Filing Date:	25-AUG-2012
Time Stamp:	11:33:48
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	Notification of loss of entitlement to small entity status	EntityStatusChange_for_Maint Fee.pdf	48551 <small>606f30a032e9fb4a06e9409a581329353a090506</small>	no	1

Warnings:

Information:	
Total Files Size (in bytes):	48551
<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.: 1027
Gregory D. Conley et al.	)	
Patent No. 8,897,628	)	
Serial No.: 13/594,813	)	Group Art Unit: 3742
Filed: August 25, 2012	)	Examiner: Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	
	)	

Mail Stop Maintenance Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

REQUEST FOR ACCEPTANCE OF FEE DEFICIENCY UNDER 37 C.F.R. § 1.28(c)(2)

On May 25, 2022, Applicant inadvertently had the small entity 7.5-year maintenance fee of \$1,880.00 paid in the above-referenced case. The current amount due as payment for the 7.5-year maintenance fee (\$3,760.00) and surcharge (\$500.00) as a non-small entity is a total of \$4,260. Therefore, the resulting fee deficiency is \$2,380. Please charge \$2,380.00 to cover the fee deficiency to our Deposit Account No. 60-4357.

Please charge any additional fees required to enter this paper and credit any overpayments to our Deposit Account No. 60-4357.

Respectfully submitted,
MARTIN & FERRARO, LLP

Date: June 27, 2022

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

Electronic Acknowledgement Receipt	
EFS ID:	46053435
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
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:	269.0003-00000
Receipt Date:	27-JUN-2022
Filing Date:	25-AUG-2012
Time Stamp:	15:37:13
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	Notification of loss of entitlement to small entity status	Request_Fee_Deficiency.pdf	63598	no	1
			50554f80ca58c9200e452de101fac9279bfb2c4		

Warnings:

Information:	
Total Files Size (in bytes):	63598
<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>	



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	REQUEST ID
13/594,813	08/25/2012	Gregory D. Conley	269.0003-00000	168457

Acknowledgement of Loss of Entitlement to Entity Status Discount

The entity status change request below filed through Private PAIR on 06/17/2022 has been accepted.

CERTIFICATIONS:

Change of Entity Status:

☒ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be notification of loss of entitlement to small or micro entity status, as applicable.

This portion must be completed by the signatory or signatories making the entity status change in accordance with 37 CFR 1.4(d)(4).

Signature:	/Wesley C. Meinerding/
Name:	Wesley C. Meinerding
Registration Number:	57925

NJOY Exhibit 2041.028
Juul v. NJOY
IPR2024-00161

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Court of Common Pleas, Medina County, Ohio on the following
☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 14-cv-0386	DATE FILED 10/28/2016	U.S. DISTRICT COURT Court of Common Pleas, Medina County, Ohio
PLAINTIFF William E. Steiger II		DEFENDANT Gregory D. Conley, et al.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8897628		
2 9532604		
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

NJOY Exhibit 2041.029
Juul v. NJOY
IPR2024-00161

1 STATE OF OHIO,)
2 COUNTY OF MEDINA.)

3 IN THE COURT OF COMMON PLEAS

4 WILLIAM STEIGER II,)
5 Plaintiff)
6 vs.) Case No 14 CIV 0386
7 GREGORY D. CONLEY, et al.,) Judge H.F. Inderlied, Jr
8 Defendants)

9
10 Transcript of Proceedings held on
11 Thursday, the 11th day of August, 2016 before
12 the Hon. H.F. Inderlied, Jr. (Ret), as taken by
13 Timothy R. Peters, Assistant Official Court Reporter,
14 commencing at approximately 9:30 a.m., and held in the
15 Medina County Courthouse, 93 Public Square, Medina,
16 Ohio 44256

17
18
19
20
21
22 MEDINA COURT REPORTERS, INC
23 REGISTERED PROFESSIONAL REPORTERS
24 209 North Broadway Street
25 Medina, Ohio 44256
(330) 723-2482
MCRMedina@msn.com



INDEX

3	EXHIBIT		
4	EXHIBIT	Marked	Identified
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24			

APPEARANCES:

2 The Bailey Law Firm,
3 by Steve C Bailey, Esq.,
 on behalf of the Plaintiff

4 Grubb & Associates, LPA,
5 by Natalie F. Grubb, Esq., and
6 Mark E. Owens, Esq.,
 on behalf of Defendants Conley and
 FUMA International, LLC.

7 Brown, Amodio & Chandler, LPA,
8 by James A. Amodio, Esq.,
 on behalf of Defendant Hillenbrandt

PROCEEDINGS

11 THE COURT: Good morning.

12 Please be seated.

13 Let the record reflect this is Case Number
14 14 CIV 0386, William E. Steiger II versus
15 Gregory Conley and Rebecca L. Conley, FUMA
16 International, LLC, Daniel Hillenbrandt, and
17 Michael Mandela.

18 The record shall reflect I am
19 Judge Inderlied, sitting by assignment from the
20 Chief Justice of the Ohio Supreme Court,
21 Assignment Number 16JA0129; and that the
22 parties are present in person or by counsel
23 with the exception of Mr. Mandela.

24 The Plaintiff is represented by Steve
25 C Bailey.

1 The Defendants Conley and FUMA
2 International, LLC by Natalie F. Grubb and
3 Mark E. Owens

4 And Daniel Hillenbrandt by James A. Amodio
5 That's a correct reference to the
6 circumstances to this point, Mr Bailey?

7 MR. BAILEY: Yes, sir.

8 THE COURT: Ms. Grubb?

9 MS. GRUBB Yes

10 THE COURT: Mr. Owens?

11 MR. OWENS: Yes

12 THE COURT: Mr. Amodio?

13 MR. AMODIO: Yes, your

14 Honor

15 THE COURT: All right

16 It is my understanding, and at the request
17 of counsel, that this proceeding be held to
18 enable the parties to memorialize for the
19 record a settlement agreement that they have
20 entered into, it being my understanding that
21 that settlement agreement is designed to
22 resolve all disputes between the named parties,
23 with the exception of Mr. Mandela.

24 Mr. Mandela, who is not present in person
25 or by counsel, was present at the original

1 trial hearing of May 16, 2016. He was not
2 present at the June 10, 2016 continuation of
3 the presentation of evidence in that case, and
4 in the course of his single time on the witness
5 stand, indicated that he was not waiving any
6 claims or defenses.

7 However, he did not appear, did not call
8 any witnesses when the opportunity for him to
9 do so was presented, and relies, apparently,
10 exclusively on an ownership claim based upon
11 presentations of evidence by other persons, his
12 name appearing in a potential ownership role
13 only one time to my recollection.

14 So in the course of these proceedings, in
15 addition to memorializing the specifics of the
16 settlement agreements, I would appreciate
17 counsel addressing Mr. Mandela's position or
18 claim with respect to a possible ownership
19 interest in FUMA International, LLC or any
20 patent held by that entity or any individual in
21 connection with that entity

22 With that understanding, I would like
23 counsel - and I don't care about the order in
24 which it's done - to make a presentation with
25 respect to the settlement that the parties have

1 entered into. I would like respective counsel
2 to have each of their clients acknowledge the
3 existence of that agreement, their signature,
4 and assent to it in the course of these
5 proceedings

6 If, in fact, as was suggested in chambers,
7 there is a signed, written document that
8 contains the agreements of the parties, I would
9 suggest that we mark that as Joint Exhibit 1
10 with respect to this hearing, and with the
11 exclusion of Mr Mandela since he's not
12 present.

13 So who among counsel will take the initial
14 role in the presentation of the settlement
15 agreement at this time?

16 MR. OWENS: (Indicating.)

17 THE COURT: Mr. Owens

18 MR. OWENS: Yes, your

19 Honor

20 THE COURT: You may
21 proceed

22 (Whereupon, a document entitled
23 "Settlement Agreement and Mutual Release" was
24 then marked as Joint Exhibit 1 for purposes of
25 identification

(Whereupon, a document entitled
"Assignment and Transfer of Ownership
Interest .. " was then marked as Joint Exhibit
2 for purposes of identification.)

MR. OWENS: Thank you.

Yes, we have reached a full and final
settlement between all the parties that are
here today, all the parties in this action,
with the exception of Mr. Mandela.

We have a written settlement agreement
which we have marked as Exhibit 1, which I
would like to give your Honor (providing)

THE COURT: Thank you.

MR. OWENS: It's a very
detailed settlement agreement in which it's
been agreed that Mr Steiger will continue to
be a non-participating, non-active member of
FUMA until all settlement payments under this
agreement are made to him

He has also received the laptop computer
today that he did use when he was an active
member of FUMA. That's been returned to him,
as well as the cell phone that he used while he
was an active member of FUMA. I am sure that
he will acknowledge that when Mr. Bailey has a

1 chance to speak, but he has received those
2 items and will acknowledge that.

3 We've also made the first initial payment
4 under the settlement agreement. A certified
5 check was presented, and it is in Mr. Steiger's
6 possession in the amount called for in the
7 agreement, so he has that as well.

8 The parties have agreed that they're
9 releasing each other, their successors and
10 assigns, any claims that they may have,
11 spouses, beneficiaries. The intention is that
12 all claims among the parties are resolved,
13 which would include, of course, any successors,
14 assigns, spouses, et cetera. I believe the
15 language in the settlement agreement makes that
16 clear.

17 The parties have also agreed that we would
18 like this Court to retain jurisdiction in the
19 event that there is any further action that
20 needs to be done to carry forth the agreement
21 that has been reached, particularly with
22 respect to the assignment of the patent. We do
23 have a signed, executed assignment, and I have
24 a copy of that assignment that Mr. Steiger has
25 signed. It is referenced in the settlement

2 agreement we've marked at as Exhibit 2, if I
3 may also present that to your Honor.

4 THE COURT: You may

5 Could we reference these as Joint Exhibits
6 1 and 2?

7 MR. OWENS: Yes

8 THE COURT: The record
9 will so reflect.

10 MR. OWENS: To the extent
11 the U.S. Patent and Trademark Office requires
12 some further, additional form in order to make
13 that assignment effective, we have agreed in
14 the document that any further actions that need
15 to be taken or will be taken, that the parties
16 will cooperate in doing that. That s the
17 primary purpose we d like the Court to retain
18 jurisdiction.

19 It was also -- we spoke in chambers before
20 going on the record, and it was agreed - and
21 I'm sure Mr. Bailey would acknowledge the
22 agreement - that Mr. Steiger will continue to
23 be bound by the noncompetition clause and the
24 FUMA operating agreement until he's paid in
25 full under this agreement. So the LLC
operating agreement will continue to be

1 enforced for that purpose, for the purpose of
2 the noncompetition agreement.

3 As I mentioned, because he will be a
4 passive, non-active member, he will not be
5 receiving any distributions from the LLC, so he
6 will not be getting K-1s, anything of that
7 nature

8 It is agreed as part of the settlement,
9 however, that if FUMA is sold before he is paid
10 in full under the settlement agreement, then he
11 has the option of taking his twenty percent,
12 what he would have been entitled to as a full
13 member of FUMA, or what's left to be paid under
14 the settlement agreement, whichever is greater.
15 He has his option

16 So with that, I would have our clients for
17 FUMA International, LLC -- we have Greg Conley
18 here, and Rebecca Conley, I would just have
19 each of them -

20 I'll start with you, Greg. Have you read
21 the settlement agreement?

22 MR. CONLEY: Yes, I have.

23 MR. OWENS: You fully
24 understand the agreement?

25 MR. CONLEY: Yes, I do

COMMON PLEAS COURT

16 OCT 28 PM 2:08

FILED
DAVID B. WADSWORTH
MEDINA COUNTY
CLERK OF COURTS

IN THE COURT OF COMMON PLEAS
MEDINA COUNTY, OHIO

WILLIAM E. STEIGER II,	)	CASE NO. 14CIV0386
	)	
Plaintiff	)	JUDGE H.F. INDERLIED, JR. (Ret.)
	)	(By assignment)
vs.	)	
	)	
GREGORY D. CONLEY, <i>et al.</i> ,	)	PRAECIPE FOR MAILING OF COURT
	)	DECISION TO THE UNITED STATES
Defendants	)	PATENT AND TRADEMARK OFFICE
	)	
	)	

In accordance with 35 U.S.C. §290 and Rule 2207 [R-07.2015] of the United States Patent and Trademark Office, Defendants, Fuma International, LLC, Gregory D. Conley and Rebecca Conley, by and through undersigned counsel, hereby respectfully direct the Clerk of Court to mail a date-stamped copy of this Praecipe and the attached *Stipulated Entry of Settlement, Joint Dismissal with Prejudice and Declaratory Judgment as Against Defendant Michael Mandel* (the "Final Entry"), to the following for inclusion in the Patent File for U.S. Patent No. 8,897,628 and U.S. Patent Application No. 14/510,955: Please serve the following by Regular US Mail,

Mail Stop 8
Director of the U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

1 MR. OWENS: You're --
2 THE COURT: Do you
3 want -- I'm sorry. Do you want them sworn in?
4 MR. OWENS: Yes.
5 THE COURT: Please rise
6 and raise your right hand
7 Whereupon, GREGORY CONLEY was then
8 placed under oath by the Court
9 THE COURT Thank you Be
10 seated, please.
11 MR. CONLEY: (Complying.)
12 MR. OWENS: Mr. Conley,
13 you have read the settlement agreement we
14 presented as Joint Exhibit 1?
15 MR. CONLEY: Yes, I have
16 MR. OWENS: And you are in
17 full agreement with every provision set forth
18 in that agreement?
19 MR. CONLEY: Yes
20 MR. OWENS: You ve signed
21 it of your own free will?
22 MR. CONLEY: Yes
23 MR. OWENS: And,
24 Rebecca --
25 THE COURT: Raise your

right hand.

Whereupon, REBECCA CONLEY was then
placed under oath by the Court

THE COURT Proceed

MR. OWENS: Mrs. Conley,
you've read the entire settlement agreement
and mutual release that's been submitted as
Joint Exhibit 1?

MS. CONLEY: Yes, I have

MR. OWENS: And you fully
understand all the provisions therein?

MS. CONLEY: Yes, I do.

MR. OWENS: And you signed
it of your own free will?

MS. CONLEY: Yes, I did.

MR. OWENS: And you're in
agreement with all the provisions of that
agreement?

MS. CONLEY: Yes, I am.

THE COURT: Each of you
understands that that agreement is intended to
apply to your successors, heirs, assigns, and
to fully eliminate any risk that someone down
the line on your behalf, or claiming to be
successors of yourself, would make a claim with

1 respect to this case.

2 Right, Mr. Conley?

3 MR. CONLEY: Yes.

4 THE COURT: Ms. Conley?

5 MS. CONLEY: Yes

6 THE COURT: Thank you

7 MR. OWENS: Your Honor I

8 would just add, I did ask them individually,

9 but just to complete the loop, Mr. Conley is

10 also here on behalf of FUMA International, LLC

11 So I would ask you, Mr. Conley, what is

12 your position with FUMA?

13 MR. CONLEY: I am the

14 president.

15 MR. OWENS: And you have

16 the full power and authority to bind FUMA

17 International, LLC to this Settlement Agreement

18 and Mutual Release?

19 MR. CONLEY: I do.

20 MR. OWENS: And as the

21 president, you affirm that FUMA International

22 LLC does agree and understand the full force

23 and effect of the Settlement Agreement and

24 Mutual Release?

25 MR. CONLEY: Yes

1 MR. OWENS: Okay.

2 THE COURT: And you would

3 agree as well that that agreement applies to

4 any successors in interest of FUMA in

5 connection with this matter, except to the

6 extent that it is agreed to the contrary in the

7 Assignment and Transfer of Ownership Interest

8 or the Settlement Agreement and Mutual Release?

9 MR. CONLEY: Yes, I do,

10 your Honor.

11 THE COURT: Thank you,

12 Mr. Owens.

13 MR. OWENS: Your Honor, do

14 you want me to address Mr. Mandela now, or do

15 you want to do that after we complete the

16 settlement portion?

17 THE COURT: Why don't we

18 complete the settlement portion first.

19 MR. OWENS: Okay.

20 THE COURT: Mr. Bailey

21 MR. BAILEY Thank you

22 If Mr. Steiger could be sworn.

23 Whereupon, WILLIAM STEIGER II was

24 then placed under oath by the Court.

25 THE COURT: Thank you

1 Go ahead, Mr. Bailey

2 MR. BAILEY: Mr. Steiger,
3 state your name, please

4 MR. STEIGER: William
5 Steiger

6 MR. BAILEY: Mr. Steiger,
7 there has been -- there have been two
8 documents presented to the Court this morning
9 Joint Exhibit 1 purports to be a settlement
10 agreement, and Joint Exhibit 2 purports to be
11 an assignment of patent.

12 Did you sign both of those documents?

13 MR. STEIGER: Yes, I did

14 MR. BAILEY: Did you read
15 them before you signed them?

16 MR. STEIGER: Yes, I did

17 MR. BAILEY: Do you
18 understand them?

19 MR. STEIGER: I do

20 MR. BAILEY: Do they
21 contain the agreement that you have reached in
22 this matter?

23 MR. STEIGER: Yes, they do.

24 MR. BAILEY: Do you
25 understand that, understand the interpretation

being given this morning to this agreement, you
are still bound by the noncompete portion of
the FUMA operating agreement?

MR. STEIGER: I do

MR. BAILEY: Do you agree
to that?

MR. STEIGER: I do

MR. BAILEY: Do you agree
that this settlement applies to not only you,
but all of you assigns, heirs, and anyone who
would have any derivative claim arising out of
your interest? Do you understand that?

MR. STEIGER: I do.

MR. BAILEY: And that's
acceptable to you?

MR. STEIGER: Yes, it is

MR. BAILEY: Do you
acknowledge that today you have received a
telephone pursuant to the agreement?

MR. STEIGER: I do

MR. BAILEY: Do you
acknowledge that today you received a laptop
pursuant to the agreement?

MR. STEIGER: I do

MR. BAILEY: Do you

1 acknowledge that today you have received a down
2 payment, the first payment?

3 MR. STEIGER: Yes, I do

4 MR. BAILEY: Nothing

5 further Thank you

6 THE COURT: Mr. Steiger,
7 Mr. Conley, Mrs. Conley, do any of you have any
8 questions of any kind with respect to either
9 Joint Exhibit 1 or Joint Exhibit 2, or your
10 respective testimonies in connection with the
11 agreements represented by Joint Exhibits 1
12 and 2?

13 Mr. Steiger?

14 MR. STEIGER: No, I don't

15 THE COURT: Mr. Conley?

16 MR. CONLEY No, your

17 Honor

18 THE COURT: Ms. Conley?

19 MS. CONLEY: No, your

20 Honor

21 THE COURT: Mr. Owens,
22 anything further?

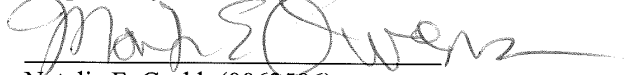
23 MR. OWENS: I just wanted
24 to mention, we haven't yet done
25 Mr. Hillenbrandt.

1 THE COURT: I'm sorry. I
2 did not mean to do that
3 MR. BAILEY: He has
4 separate counsel, so
5 THE COURT: No, I
6 understand that
7 Mr. Amodio, if you would please
8 Whereupon, DANIEL HILLENBRANDT was
9 then placed under oath by the Court.
10 THE COURT: Thank you
11 Mr. Amodio.
12 MR. AMODIO: Thank you
13 your Honor.
14 State your name for the record
15 MR. HILLENBRANDT: It's
16 Dan Hillenbrandt.
17 MR. AMODIO: Did you have a
18 chance to look over the documents, the
19 Settlement Agreement and Mutual Release that
20 was submitted to the Judge as Joint Exhibit
21 Number 1?
22 MR. HILLENBRANDT: Yes, I did.
23 MR. AMODIO: Do you
24 understand that?
25 MR. HILLENBRANDT: I do

1 MR. AMODIO: Do you have
2 any questions about how it pertains to you?
3 MR. HILLENBRANDT: No, I don't.
4 MR. AMODIO: And did you
5 sign the agreement?
6 MR. HILLENBRANDT: Yes, I did.
7 MR. AMODIO: And you are
8 now before the Court willing to say that you
9 assented to all the terms and conditions of the
10 agreement?
11 MR. HILLENBRANDT: Yes, I did.
12 MR. AMODIO: And you
13 understand that this applies not only to you,
14 but anybody claiming through you heir assign,
15 and any other party?
16 MR. HILLENBRANDT: I do
17 MR. AMODIO: That's about
18 it, your Honor.
19 THE COURT: Thank you
20 Is Mr. Hillenbrandt affected by the
21 Joint Exhibit 2 document regarding assignment
22 and transfer of ownership interests?
23 MR. AMODIO: That's a good
24 question. I don't know, but he did not sign
25 it.

1 MR. HILLENBRANDT: I had already
2 signed that. I do believe my signature is on
3 that copy, or maybe another copy
4 MR. OWENS: Your Honor --
5 THE COURT: The only thing
6 I've got here is Mr Steiger as assignor
7 MR. AMODIO: This is the
8 transfer of ownership interest and all rights
9 to the patent.
10 MR. HILLENBRANDT: The one I
11 signed was in the previous
12 THE COURT: You only
13 signed Joint Exhibit 1, correct?
14 MR. HILLENBRANDT: Correct
15 MR. OWENS: Your Honor we
16 do have an assignment that was executed by
17 Mr Hillenbrandt previously, not related to
18 this settlement. He has -- I mean, we should
19 have him affirm for the record that he
20 acknowledges that all rights and interests to
21 the patent, and what we've called the CIP
22 applications, the continuing patents, are
23 solely the property of FUMA International, LLC.
24 You're not claiming any longer to have any
25 individual ownership, correct?

Respectfully submitted,



Natalie F. Grubb (0062596)

Mark E. Owens (0068335)

GRUBB & ASSOCIATES, LPA

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PH: (330) 725-7252 / FAX: (330) 723-1095

E-Mail: officemgr@grubbandassoc.com

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Co-Counsel for Defendants Fuma International, LLC, Gregory Conley, and Rebecca Conley

CERTIFICATE OF SERVICE

I certify that a true and accurate copy of the foregoing PRAECIPE FOR MAILING OF COURT DECISION TO THE UNITED STATES PATENT AND TRADEMARK OFFICE was sent on this 28th day of October, 2016, via electronic mail to:

Steve C. Bailey

The Bailey Law Firm

60 Public Square, Suite 202

Medina, OH 44256

Email: sbailey@baileylaw.com

Attorney for Plaintiff William E. Steiger, II

1 MR. HILLENBRANDT: Correct
2 I signed that over, correct.
3 MR. OWENS: Okay
4 THE COURT Is there
5 anything further by any counsel or the parties
6 with respect to the memorialization of the
7 settlement agreement among the individuals and
8 the corporation present or represented this
9 morning?
10 Mr. Bailey?
11 MR. BAILEY: No, sir
12 THE COURT: Mr. Owens?
13 MR. OWENS: No, your
14 Honor
15 THE COURT: Mr. Amodio?
16 MR. AMODIO: No, your
17 Honor
18 THE COURT: All right
19 Now, with respect to the claims of
20 Mr Mandela, we ll start with the Plaintiff's
21 counsel
22 Mr. Bailey, do you have any comment or
23 argument with respect to Mr Mandela's avowed
24 claims of ownership in connection with the
25 patent involved in this case?

1 MR. BAILEY: Your Honor,
2 I -- first of all, Mr. Steiger and myself do
3 not have an interest in this matter. As an
4 officer of the court, though, I would represent
5 to the Court that I don't believe Mr. Mandela
6 has any claims.

7 As I sat here and thought about it after we
8 left chambers, Mr. Mandela is a party Defendant
9 in this action brought in by us. He did not,
10 to the best of my knowledge, file a crossclaim;
11 therefore, I don't believe he's made a claim in
12 the case

13 THE COURT: Your position
14 would be that even if he has made a claim, he
15 has, in fact, not offered any evidence to prove
16 that claim?

17 MR. BAILEY: Well.
18 absolutely, sure.

19 THE COURT: Would you
20 suggest, under the circumstances, that it is
21 appropriate for the Court to take under
22 consideration, either on its own motion or by
23 motion of the parties, a dismissal of
24 Mr. Mandela's potential claim with prejudice?

25 MR. BAILEY: I do. I

1 believe that he's waived it. It would be a
2 mandatory crossclaim, and he didn't assert it.

3 THE COURT: Mr. Owens

4 MR. OWENS: Yes, your
5 Honor, I agree wholeheartedly with Mr. Bailey
6 The only evidence that we have relative to
7 Mr. Mandela is the one day that he did attend
8 trial.

9 He did provide trial testimony, and that
10 testimony made it very clear that he wasn't
11 really interested in this matter, other than
12 being forced to be here. And the testimony he
13 gave -- he testified that Mr. Conley was
14 responsible for the original product design,
15 and I can cite transcript pages if your Honor
16 would like.

17 THE COURT: That's not
18 necessary. Go ahead.

19 MR. OWENS: He
20 acknowledged under oath that he didn't produce
21 any type of technology. He acknowledged that
22 what he created -- what he claimed to create
23 was simply a name, a jazz name or marketing
24 name if you will.

25 He had no idea how to design anything. He

1 thought his idea would be a good idea, quote,
2 if it was designed, end quote. He didn't even
3 know whether his idea was even part of the
4 patent or any of the patent claims. He had no
5 clue.

6 He acknowledged that he didn't create any
7 drawings or mechanical renderings or computer
8 renderings. He acknowledged that the
9 applications for the filed patent were all for
10 the benefit of FUMA. And he acknowledged under
11 oath that he cannot do anything with this
12 claimed patent ownership right.

13 Therefore, I think his testimony certainly
14 supports his otherwise lack of interest and the
15 fact that he did not, as Mr. Bailey has
16 correctly stated, assert any individual claim
17 in this matter. He filed an Answer where he
18 claimed in the Answer that he had some right,
19 but his testimony certainly did not bear that
20 out

21 We would expressly move the Court to enter
22 an order at this time dismissing Mr. Mandela
23 with prejudice in this case

24 MS. GRUBB: We would
25 ask, your Honor, that it would be given res

1 judicata. In fact, there is a Federal lawsuit
2 still outstanding that has been put on stay,
3 whereas Mr. Mandela has asserted there an
4 ownership interest before Judge Nugent, and
5 that this -- that your ruling would be, with
6 agreement of counsel, dispositive of his
7 ownership interests, his successors, his heirs,
8 and anyone who could ever claim through him any
9 ownership rights.

10 And that your Honor, of course, maintain it
11 with this jurisdiction to be able to write any
12 orders that are needed to clear up any matters,
13 either at the Federal court level or at the
14 patent office

15 THE COURT: Any objection
16 on behalf of Mr. Steiger Mr Bailey, to that
17 analysis of both Mr. Owens and Ms. Grubb?

18 MR. BAILEY: No, sir.

19 THE COURT: Have the
20 parties resolved the potential contained in the
21 Federal suit before Judge Nugent?

22 MR. BAILEY: Yes

23 THE COURT: By virtue of
24 the settlement agreement as well?

25 MR. OWENS: Yes, your

1 Honor

2 MR. BAILEY: Yes

3 THE COURT: Mr. Amodio,

4 any argument or comment with respect to

5 Mr. Mandela's claim on behalf of

6 Mr. Hillenbrandt?

7 MR. AMODIO: Thank you,

8 your Honor

9 As you know, I'm relatively new to the case
10 here, having taken over for Mr. Ross just
11 recently. I was not aware of some of the
12 things I've heard.

13 But if, in fact, Mr. Mandela was brought in
14 as a party by the Plaintiff, then indeed
15 Mr. Bailey is correct that he would have been
16 required to assert a counterclaim. Failing
17 that, he misses his compulsory counterclaim
18 under Civil Rule 13, I believe it is.

19 I think what you're planning to do is very
20 appropriate. I'm agreeing with that, yes

21 THE COURT: Thank you,

22 Mr. Amodio.

23 The Court grants the motion advanced by
24 Mr. Owens on behalf of the Conleys and
25 FUMA International. Mr. Mandela's claims are

hereby dismissed with prejudice.

2 To the extent that the agreement does not
3 cover any issue with respect to Mr. Mandela
4 and the existing Federal lawsuit before
5 Judge Nugent, it would be this Court's position
6 and this Court's determination with respect to
7 Mr. Mandela's claim, it would effectively
8 create a res judicata circumstance or a
9 collateral estoppel circumstance with respect
10 to the Federal lawsuit, my entry in this being
11 the final appealable order with respect to the
12 claims and counterclaims and the crossclaims,
13 if any, advanced in this case.

14 To that end, I would anticipate that
15 counsel would provide the Court with a proposed
16 agreed judgment entry disposing of the matter,
17 which may or may not - I suppose wisely would
18 include at least an incorporation by reference
19 of Joint Exhibits 1 and 2, the settlement
20 agreement and the assignment of Mr. Steiger,
21 and probably a reference as well to the
22 assignment of Mr. Hillenbrandt.

23 Who would undertake to prepare that entry?
24 Certainly you'll have to circulate it among
25 counsel and obtain approval. It is

1 satisfactory to the Court if you obtain e-mail
2 approval and submit the proposed entry to me
3 via e-mail. I would then print it and,
4 utilizing those assents or those agreements,
5 execute an original, which I, in turn, would
6 forward to the Court as a final judgment entry
7 in this matter

8 MR. OWENS: Your Honor,
9 I'll volunteer to do that

10 THE COURT: Mr. Owens
11 okay

12 MR. OWENS: If it s okay
13 with your Honor, may I have until next Friday
14 of next week to submit that to you?

15 THE COURT: Not a problem
16 No objection, Mr. Bailey?

17 MR. BAILEY: No, sir. I'm
18 not going to be here for two days. That's
19 great

20 THE COURT: No objection
21 Mr. Amodio?

22 MR. AMODIO: No objection.

23 THE COURT: All right.

24 So when you say by next Friday, you're
25 going to have to circulate it and get the

1 STATE OF OHIO)
) ss:
2 COUNTY OF MEDINA.)

3 CERTIFICATE

4 I, Timothy R Peters, Assistant Official Court
5 Reporter and Notary Public within and for the State of
6 Ohio, hereby certify that the above and foregoing is a
7 true and correct transcription of my stenographic
8 notes as taken by me on the 11th day of August,
9 2016

10 I further certify that this is a full and
11 complete transcription of the above-entitled cause

12 IN WITNESS WHEREOF, I have hereunto set my hand
13 and affixed my seal of office at Medina, Ohio this
14 17th day of August, 2016

15
16
17 

18
19 Timothy R. Peters,
20 Assistant Official Court Reporter
 and Notary Public within and for
21 the State of Ohio.
 My commission expires 01/25/20
22
23
24
25

INSTRUCTIONS TO THE CLERK

Pursuant to Civ.R, 58, the clerk is directed to serve on the following parties, copies of this judgment and to note the date of service on the journal:

Steve C. Bailey
The Bailey Law Firm
60 Public Square
Suite 202
Medina, OH 44256

James A. Amodio
Brown & Amodio
109 West Liberty Street
Medina, OH 44256

Russell D. Kornblut
30455 Solon Rd.
Solon, OH 44139

Natalie F. Grubb
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Medina, OH 44256

Michael Mandela

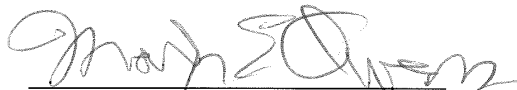
Judge H. Inderlied

Copies were mailed by the clerk of court on 8-30-16

Christy Siresmons
DEPUTY CLERK OF COURT

James A. Amodio, Esq.
Brown, Amodio, & Chandler, LPA
109 West Liberty Street
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Email: dlross@brownandamodio.com
Attorney for Defendant Daniel Hillenbrandt

Michael Mandela
3451 Mark Drive
Broadview Heights, OH 44147
Email: megaseven2004@yahoo.com

A handwritten signature in black ink, appearing to read "Mark E. Owens". The signature is fluid and cursive, with the first name "Mark" and last name "Owens" clearly distinguishable.

Mark E. Owens (0068335)
*An Attorney for Defendants Fuma
International, LLC, Gregory Conley, and
Rebecca Conley*

COMMON PLEAS COURT
2016 AUG 30 AM 11:58

IN THE COURT OF COMMON PLEAS
MEDINA COUNTY, OHIO

FILED
DAVID B. WAOSWORTH
MEDINA COUNTY
CLERK OF COURTS

WILLIAM E. STEIGER II,	)	CASE NO. 14CIV0386
	)	
Plaintiff	)	JUDGE H.F. INDERLIED, JR. (Ret.)
	)	(By assignment)
vs.	)	
	)	<u>STIPULATED ENTRY OF</u>
GREGORY D. CONLEY, <i>et al.</i> ,	)	<u>SETTLEMENT, JOINT DISMISSAL</u>
	)	<u>WITH PREJUDICE AND</u>
Defendants	)	<u>DECLARATORY JUDGMENT AS</u>
	)	<u>AGAINST DEFENDANT MICHAEL</u>
	)	<u>MANDELA</u>

Plaintiff, William E. Steiger II, and Defendants, Fuma International, LLC ("Fuma"), Gregory D. Conley, Rebecca Conley and Daniel Hillenbrandt (collectively, the "Settling Parties"), by and through their authorized attorneys, hereby stipulate as follows:

1. All claims among them have been fully and finally settled pursuant to the express terms and conditions set forth in that certain *Settlement Agreement and Mutual Release* (the "Settlement Agreement") executed by each of the Settling Parties in this Court on August 11, 2016, and submitted and entered upon the record at the hearing conducted on said date before the Honorable Judge H.F. Inderlied, Jr. (the "Hearing") (a transcript of the Hearing is attached hereto as Exhibit A) as "Joint Exhibit 1," which the Settling Parties fully intend to resolve with prejudice all claims know or unknown, asserted or not asserted, by and between the Settling Parties, their successors, assigns, beneficiaries, heirs and spouses arising up to the date of this stipulated entry.

2. The *Assignment And Transfer Of Ownership Interest And All Rights In And To Pending And/Or Current And Future Patents And Patent Claims* executed by Plaintiff, William

E. Steiger II (the "Assignment"), at the Hearing in accordance with the Settlement Agreement was submitted and entered upon the record at the Hearing as "Joint Exhibit 2."

3. Each of the Settling Parties read the Settlement Agreement, understands all of its terms, agrees to all of the terms therein, has had the opportunity to discuss said terms with their counsel, and executed the Settlement Agreement of their own free will.

4. In addition, Mr. Steiger read the Assignment, understands all of its terms, agrees to all of the terms therein, has had the opportunity to discuss said terms with his counsel, and executed the Assignment of his own free will. Mr. Steiger agrees to fully cooperate with Fuma in timely executing any additional or further forms of assignment or in the taking of any other action deemed to be necessary by Fuma's intellectual property counsel and/or the United States Patent and Trademark Office to effectuate the intended assignment to Fuma

5. In addition to the express terms and conditions set forth in the Settlement Agreement and Assignment, Mr. Steiger agrees and affirms to remain bound by the non-competition provisions set forth in Section 5.4 of Fuma's Operating Agreement until all payment obligations under the Settlement Agreement are fully satisfied, as was affirmed by Mr. Steiger on the record at the Hearing.

6. Also at the time of the Hearing, Mr. Steiger was provided with the laptop computer and cellular telephone referenced in Paragraph 9 of the Settlement Agreement. Mr. Steiger acknowledged receipt of these items on the record at the Hearing.

7. Mr. Steiger also was provided with a certified check by Fuma for the Initial Payment required in Paragraph 2A of the Settlement Agreement at the time of the Hearing, which Mr. Steiger acknowledged receipt of on the record at the hearing.

8. It is hereby stipulated, acknowledged and agreed that this Court shall retain limited jurisdiction to enforce the terms of the Settlement Agreement and Assignment, and to preside over any disputes that arise between the Settling Parties relating thereto.

WHEREAS, the facts recited herein have been stipulated to by the Settling Parties and were acknowledged and affirmed by each of the Settling Parties before this Court at the Hearing;

WHEREAS, the Settlement Agreement and Assignment were submitted to the Court and marked as Joint Exhibit 1 and 2, respectively, at the Hearing;

WHEREAS, the Court is satisfied that each of the Settling Parties has entered into the Settlement Agreement voluntarily and of their own free will, that each of the Settling Parties understands the Settlement Agreement and has had a full and fair opportunity to consult with legal counsel regarding all issues arising thereunder and therefrom;

WHEREAS, the Court is satisfied that Plaintiff William E. Steiger II has also entered into the Assignment voluntarily and of his own free will, that he understands the Assignment and has had a full and fair opportunity to consult with legal counsel regarding all issues arising thereunder and therefrom;

WHEREAS, the Court is satisfied based on the language and terms in the Settlement Agreement and the Settling Parties' verbal acknowledgment at the Hearing that the Settlement Agreement and related Assignment resolve all claims between them and their heirs, successors, assigns, beneficiaries, spouses and anyone who may assert any claim through them against any of them;

WHEREAS, the Court heard argument of counsel at the Hearing as to non-settling defendant Michael Mandela based on the evidence received by the Court during the recent bench trial conducted on the disputed issue of ownership of a certain patent, pending patent

applications and patent claims, which are also the subject of a pending federal declaratory judgment action pending in the United States District Court for the Northern District of Ohio in the case of *Fuma International, LLC, et al. v Steiger, et al.*, Case Number 1: 14-cv-2154 (the “Federal Court Case”); and

WHEREAS, the Settling Parties intend, and the Settlement Agreement expressly so provides, that this stipulated entry shall also resolve all patent ownership claims pending in the Federal Court Case and shall be binding and have preclusive effect as to all patent ownership claims asserted in said action.

IT IS HEREBY ORDERED, ADJUDGED AND DECREED that all claims filed in this action by and between Plaintiff William E. Steiger II and Defendants Fuma International, LLC, Gregory D. Conley, Rebecca Conley and Daniel Hillenbrandt are hereby settled and dismissed with prejudice.

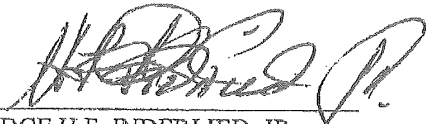
IT IS FURTHER HEREBY ORDERED, ADJUDGED AND DECREED that a declaratory judgment is rendered in favor of Plaintiff as to Count V of his Amended Complaint as against Mr. Mandela, and in favor of Fuma, Mr. Conley and Mrs. Conley as to their Cross-Claim against Mr. Mandela, declaring that Mr. Mandela has no right, title or ownership interest in any patent, patent application or patent claim established by the evidence submitted by the parties in the recent bench trial, which the Settling Parties agree and stipulate in settlement of all claims is the property of Fuma.

IT IS FURTHER HEREBY ORDERED, ADJUDGED AND DECREED that all court costs shall be taxed to Fuma.

PURSUANT TO CIV.R. 58(B), THE CLERK OF COURTS IS DIRECTED TO SERVE THIS JUDGMENT IN A MANNER PRESCRIBED BY CIV.R. 5(B). THE CLERK MUST INDICATE ON THE DOCKET THE NAMES AND ADDRESSES OF ALL PARTIES, THE METHOD OF SERVICE, AND THE COSTS ASSOCIATED WITH THIS SERVICE.

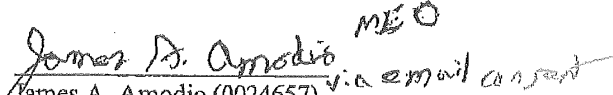
IT IS SO ORDERED

Date: 8/24/16


JUDGE H.F. INDERLIED, JR.


Natalie F. Grubb (0062596)
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Attorney for Daniel C. Hillenbrandt

"FEE ADDRESS" INDICATION FORM

Address to:
Mail Stop M Correspondence
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Fax to:
571-273-6500

- OR -

INSTRUCTIONS: The issue fee must have been paid for application(s) listed on this form. In addition, only an address represented by a Customer Number can be established as the fee address for maintenance fee purposes (hereafter, fee address). A fee address should be established when correspondence related to maintenance fees should be mailed to a different address than the correspondence address for the application. **When to check the first box below:** If you have a Customer Number to represent the fee address. **When to check the second box below:** If you have no Customer Number representing the desired fee address, in which case a completed Request for Customer Number (PTO/SB/125) must be attached to this form. For more information on Customer Numbers, see the Manual of Patent Examining Procedure (MPEP) § 403.

For the following listed application(s), please recognize as the "Fee Address" under the provisions of 37 CFR 1.363 the address associated with:



Customer Number:

22882

OR



The attached Request for Customer Number (PTO/SB/125) form.

PATENT NUMBER (if known)	APPLICATION NUMBER
8897628	

Completed by (check one):



Applicant/Inventor

/Thomas H. Martin/

Signature



Attorney or Agent of record 34383

(Reg. No.)

Thomas H. Martin

Typed or printed name



Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed.
(Form PTO/SB/96)

330-877-0700

Requester's telephone number



Assignee recorded at Reel

Frame

30AUG2018

Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.



* Total of

forms are submitted.

This collection of information is required by 37 CFR 1.363. 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 5 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 COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop M Correspondence, 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.

NJOY Exhibit 2041.068
Juul v. NJOY
IPR2024-00161

Electronic Acknowledgement Receipt	
EFS ID:	33613201
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
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:	269.0003-00000
Receipt Date:	04-SEP-2018
Filing Date:	25-AUG-2012
Time Stamp:	11:18:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Maintenance Fee Address Change	MF_Address.pdf	209400	no	1
			8438406304ce2f899bfdc4f9d4f048521d42 ceec		

Warnings:

**NJOY Exhibit 2041.069
Juul v. NJOY
IPR2024-00161**

Information:	
Total Files Size (in bytes):	209400
<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>	



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
13/594,813	08/25/2012	Gregory D. Conley	269.0003-00000

CONFIRMATION NO. 1027

POA ACCEPTANCE LETTER



OC000000101784264

Date Mailed: 08/23/2018

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

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/09/2018.

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.

/mteklelmichael/

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

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.

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/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	8897628 (13594813)
Filing Date	2014-11-25 (2012-08-25)
First Named Inventor	Gregory D. Conley
Title	ELECTRONIC VAPORIZER
Art Unit	(3742)
Examiner Name	(Thor S. Campbell)
Attorney Docket Number	269.0003-00000

SIGNATURE of Applicant or Patent Practitioner			
Signature	/Thomas H. Martin/	Date (Optional)	2018-08-09
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.**

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

NJOY Exhibit 2041.072
Juul v. NJOY
IPR2024-00161

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 22882

OR

☐ 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:

☒ The address associated with Customer Number: 22882

OR

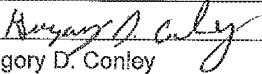
☐ Firm or individual name		
Address		
City	State	Zip
Country		
Telephone	Email	

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 	Date May 31 st , 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.
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt	
EFS ID:	33425156
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	7733
Filer:	Thomas H. Martin/Sandra Blackmon
Filer Authorized By:	Thomas H. Martin
Attorney Docket Number:	FUMA-1001 CIP1
Receipt Date:	09-AUG-2018
Filing Date:	25-AUG-2012
Time Stamp:	15:44:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73	373cStatement.pdf	117841	no	3
			ad5758a27629c915f074b2a8be0a1c53dd81de8e		

Warnings:

Information:					
2	Power of Attorney	POAdocs.pdf	819755	no	2
			ffd7cfdac3a0f76e78b38517fd8c4cc0435ef442		
Warnings:					
Information:					
Total Files Size (in bytes):			937596		
<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>					

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Gregory D. Conley et al.
Application No./Patent No.: 8897628 Filed/Issue Date: 2014-11-25
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:

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 040369, Frame 0921, 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: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
2. 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.

[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.**

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

NJOY Exhibit 2041.076
Juul v. NJOY
IPR2024-00161

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.

/Thomas H. Martin/

Signature

Thomas H. Martin

Printed or Typed Name

09AUG2018

Date

34383

Title or Registration 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.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	11/25/2014	8897628	FUMA-1001 CIP1	1027
7733	7590	11/05/2014		
WALKER & JOCKE 231 SOUTH BROADWAY STREET MEDINA, OH 44256				

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 90 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 Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Gregory D. Conley, Medina, OH;
Daniel C. Hillenbrandt, Medina, OH;
Michael Mandela, Broadview Heights, OH;
William E. Steiger, Richfield, OH;
Rebecca L. Conley, 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.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	08/25/2012	Gregory D. Conley	FUMA-1001 CIP1	1027
7733	7590	10/22/2014		
WALKER & JOCKE 231 SOUTH BROADWAY STREET MEDINA, OH 44256			EXAMINER CAMPBELL, THOR S	
			ART UNIT 3742	PAPER NUMBER
			MAIL DATE 10/22/2014	DELIVERY MODE PAPER

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.

Response to Rule 312 Communication	Application No.	Applicant(s)
	13/594,813	CONLEY ET AL.
	Examiner	Art Unit
	THOR CAMPBELL	3742

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

1. ☒ The amendment filed on 09 October 2014 under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

	/Thor S. Campbell/ Primary Examiner Art Unit: 3742
--	--

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Conley, et al.	)	
	)	Art Unit
App. No.: 13/594,813	)	3742
	)	
Confirm. No.: 1027	)	
	)	
Filed: August 25, 2012	)	Primary Examiner
	)	Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	
	)	

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

OK TO ENTER: /T.C./ (10/20/2014)

AMENDMENT AFTER ALLOWANCE
PURSUANT TO 37 C.F.R. § 1.312

In response to the Notice of Allowance dated July 29, 2014 , kindly amend the above identified Application without prejudice as follows:

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or **Fax** (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)

7733 7590 07/29/2014
WALKER & JOCKE
231 SOUTH BROADWAY STREET
MEDINA, OH 44256

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	08/25/2012	Gregory D. Conley	FUMA-1001 CIP1	1027

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	\$480	\$0	\$0	\$480	10/29/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
CAMPBELL, THOR S	3742	392-386000

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/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

- 1 Christopher L. Parmelee
- 2 Ralph E. Jocke
- 3 Walker & Jocke

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 has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:

- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 10-0637 (enclose an extra copy of this form).

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 /Ralph E. Jocke/

Date October 3, 2014

Typed or printed name Ralph E. Jocke

Registration No. 31,029

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Conley, et al.	)	
	)	Art Unit
App. No.: 13/594,813	)	3742
	)	
Confirm. No.: 1027	)	
	)	
Filed: August 25, 2012	)	Primary Examiner
	)	Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	
	)	

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

AMENDMENT AFTER ALLOWANCE
PURSUANT TO 37 C.F.R. § 1.312

In response to the Notice of Allowance dated July 29, 2014 , kindly amend the above identified Application without prejudice as follows:

Amendments to the Claims

1. (currently amended) An apparatus comprising:

a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising:

a housing that comprises an interior; and

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;
and

a power harvesting device operative to acquire energy from an airflow for use with powering the heating element.

2. (previously amended) The apparatus of claim 1, wherein the cartridge further comprises an absorbent material located in the interior of the housing, wherein the absorbent material includes the solution, and wherein the heating element is operative to vaporize the solution that is included in the absorbent material.

3. (previously amended) The apparatus of claim 2, wherein the cartridge includes opposed first and second ends wherein the cartridge includes an airflow passageway that extends through the interior between the first and second ends.

4. (previously amended) The apparatus of claim 3, wherein the cartridge includes a central longitudinal axis between the first end and the second end, wherein the cartridge further comprises a first aperture on the first end and a second aperture on the second end, wherein the airflow passageway extends axially between the first end and the second end along the central longitudinal axis, and wherein the airflow passageway is configured to allow airflow through the cartridge.

5. (original) The apparatus of claim 4, wherein the absorbent material surrounds the airflow passageway in the interior of the housing.

6. (original) The apparatus of claim 4, wherein the heating element comprises a wicking material to attract the solution from the absorbent material to the heating element.

7. (previously amended) The apparatus of claim 4, wherein the solution comprises at least one of nicotine, caffeine, THC, or any combination thereof.

8. (previously amended) The apparatus of claim 1, further comprising a second housing that is operative to releasably connect to the housing of the cartridge, wherein the second housing includes the power harvesting device.

9. (previously amended) The apparatus of claim 8, wherein the housing of the cartridge has a generally cylindrical shape and includes a first end and a second end that is opposite the first

end, and wherein the first end comprises a conductive material that is operable to place the heating element in electrical connection with the power harvesting device.

10. (previously amended) The apparatus of claim 9, wherein the second end is at least partially covered by at least one of a paper, wood, a flavored covering, or any combination thereof.

11. (original) The apparatus of claim 9, wherein the second end includes a tip comprised of a malleable polymer.

12. (currently amended) An apparatus comprising:

a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising:

a housing that comprises an interior; and

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;

a power harvesting device operative to acquire energy from the environment for use with powering the heating element; ~~and~~

at least one ~~controller~~, controller; and

at least one sensor and a data store in operative connection with the at least one controller, wherein the at least one sensor is operative to detect at least one characteristic of at least one of breath, saliva, sweat, and cells of the individual, wherein the at least one controller is operative to cause data representative of the at least one characteristic to be stored in the data store.

13. (previously presented) An apparatus comprising:

a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising:

a housing that comprises an interior; and

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;
and

a power harvesting device operative to acquire energy from the environment for use with powering the heating element, wherein the power harvesting device includes a generator, wherein air flow through the apparatus is operative to cause the generator to generate electricity usable to power the heating element.

14. (original) The apparatus according to claim 13, further comprising a controller and a data store, wherein the controller is operative responsive at least in part to the generator, to determine an estimate of an amount of vaporized solution inhaled by the individual, and to store data representative of the estimated amount in the data store.

15. (original) The apparatus according to claim 14, wherein the controller is operative to control when to operate the heating element to further vaporize the solution responsive at least in part to the data stored in the data store.

16. (original) The apparatus according to claim 13, further comprising a controller and a reading device, wherein the reading device is operative to acquire data from the individual which is used by the controller to verify that a predetermined individual is adjacent the apparatus prior to causing the heating element to vaporize the solution.

17. (original) The apparatus according to claim 16, wherein the reader device is a biometric reader.

18. (previously presented) The apparatus according to claim 13, further comprising a controller and a reading device, wherein the reading device is operative to wirelessly acquire data from an article adjacent the apparatus, which data is used by the controller to verify that a predetermined article is adjacent the apparatus prior to causing the heating element to vaporize the solution.

19. (previously presented) The apparatus according to claim 18, wherein the article includes at least one of a ring, an item capable of being carried by the individual, or a combination thereof.

20. (previously presented) A method comprising:

with an apparatus including a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising 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, wherein the apparatus includes a power harvesting device operative to acquire energy from the environment for use with powering the heating element,

- a) receiving an airflow through the housing;
- b) through operation of the power harvesting device, generating electricity responsive to the airflow in (a); and
- c) using the electricity generated in (b) to cause the heating element to vaporize the solution.

21. (previously presented) An apparatus comprising:

a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising:

a housing that comprises an interior, wherein the housing is configured to enable an airflow through the interior of the housing; and

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; and

a power harvesting device operative to generate electrical energy responsive to the airflow, wherein the heating element is operative to use the electrical energy generated by the power harvesting device to vaporize the solution.

REMARKS

All pending claims 1-21 have been allowed. Claims 1 and 12 have been amended herein to correct grammar errors. No new matter has been added. Entry of the amendment is respectfully requested.

The amendment merely embodies the correction of formal matters without changing the scope of the claims. The amendment requires no substantial amount of additional work on the part of the Office.

Conclusion

Entry of the amendment after allowance is respectfully requested.

Respectfully submitted,

/Ralph E. Jocke/

Ralph E. Jocke Reg. No. 31,029
231 South Broadway
Medina, Ohio 44256
(330) 721-0000

Electronic Patent Application Fee Transmittal				
Application Number:		13594813		
Filing Date:		25-Aug-2012		
Title of Invention:		ELECTRONIC VAPORIZER		
First Named Inventor/Applicant Name:		Gregory D. Conley		
Filer:		Christopher L. Parmelee		
Attorney Docket Number:		FUMA-1001 CIP1		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
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	2501	1	480	480
Extension-of-Time:				

NJOY Exhibit 2041.093
Juul v. NJOY
IPR2024-00161

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt	
EFS ID:	20347342
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	7733
Filer:	Christopher L. Parmelee
Filer Authorized By:	
Attorney Docket Number:	FUMA-1001 CIP1
Receipt Date:	09-OCT-2014
Filing Date:	25-AUG-2012
Time Stamp:	17:02:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 480
RAM confirmation Number	3549
Deposit Account	100637
Authorized User	
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</p>	

NJOY Exhibit 2041.095
Juul v. NJOY
IPR2024-00161

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)					
Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)					
Charge any Additional Fees required under 37 C.F.R. Section 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-New.pdf	214872 9000e6a5aa54c653720058de66f78dd3326514ea	no	1
Warnings:					
Information:					
2		Amendment.pdf	38886 1f41f55778e42d9a2a1a16ff54ff665b9fe00347	yes	9
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment after Notice of Allowance (Rule 312)		1	1	
	Claims		2	8	
	Applicant Arguments/Remarks Made in an Amendment		9	9	
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30062 4267e03c16541933e8e1892d50c31f0d9636f344	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			283820		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

7733 7590 07/29/2014
WALKER & JOCKE
231 SOUTH BROADWAY STREET
MEDINA, OH 44256

EXAMINER

CAMPBELL, THOR S

ART UNIT

PAPER NUMBER

3742

DATE MAILED: 07/29/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	08/25/2012	Gregory D. Conley	FUMA-1001 CIP1	1027

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	\$480	\$0	\$0	\$480	10/29/2014

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or **Fax** (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)

7733 7590 07/29/2014
WALKER & JOCKE
231 SOUTH BROADWAY STREET
MEDINA, OH 44256

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	08/25/2012	Gregory D. Conley	FUMA-1001 CIP1	1027

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	\$480	\$0	\$0	\$480	10/29/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
CAMPBELL, THOR S	3742	392-386000

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/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1	_____
2	_____
3	_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	08/25/2012	Gregory D. Conley	FUMA-1001 CIP1	1027
7733 7590 07/29/2014 WALKER & JOCKE 231 SOUTH BROADWAY STREET MEDINA, OH 44256			EXAMINER CAMPBELL, THOR S	
			ART UNIT 3742	PAPER NUMBER

DATE MAILED: 07/29/2014

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 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 13/594,813	Applicant(s) CONLEY ET AL.	
	Examiner THOR CAMPBELL	Art Unit 3742	AIA (First Inventor to File) 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 07/07/2014.
☐ 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 1-21. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

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

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

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

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

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

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>7/7/14</u>	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: 3742	
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BIB DATA SHEET

CONFIRMATION NO. 1027

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
13/594,813	08/25/2012	392	3742	FUMA-1001 CIP1		
APPLICANTS INVENTORS Gregory D. Conley, Medina, OH; Daniel C. Hillenbrandt, Medina, OH; Michael Mandela, Broadview Heights, OH; William E. Steiger, Richfield, OH; Rebecca L. Conley, Medina, OH; ** CONTINUING DATA ***** This application is a CIP of 12/843,917 07/27/2010 which claims benefit of 61/273,097 07/31/2009 and claims benefit of 61/271,819 07/27/2009 This application 13/594,813 08/25/2012 claims benefit of 61/527,434 08/25/2011 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 09/04/2012						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/THOR S CAMPBELL/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY OH	SHEETS DRAWINGS 6	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 2
ADDRESS WALKER & JOCKE 231 SOUTH BROADWAY STREET MEDINA, OH 44256 UNITED STATES						
TITLE ELECTRONIC VAPORIZER						
FILING FEE RECEIVED 1058	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

Receipt date: 07/07/2014

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

13594813 - GALL 3742

Approved for use through 07/31/2012. OMB 0651-0031

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13594813
	Filing Date	2012-08-25
	First Named Inventor	Greg D. Conley
	Art Unit	3742
	Examiner Name	Thor S. Campbell
	Attorney Docket Number	FUMA-1001 CIP1

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7726320	B1	2010-06-01	Robinson, et al.	
	2	3200819	B1	1965-08-17	Gilbert	
	3	7412259	B2	2008-08-12	Yoo et al.	
	4	5865185		1999-02-02	Collins et al.	
	5	5249586		1993-10-05	Morgan et al.	
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	7	5050621		1991-09-24	Creighton et al.	
	8	4969476		1990-11-13	Bale et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Receipt date: 07/07/2014		Application Number		13594813	13594813 - GAU: 3742
			Filing Date		2012-08-25	
			First Named Inventor		Greg D. Conley	
			Art Unit		3742	
			Examiner Name		Thor S. Campbell	
			Attorney Docket Number		FUMA-1001 CIP1	

	9	4966171		1990-10-30	Serrano et al.	
	10	4945929		1990-08-07	Egilmex, Nazli	
	11	4284089		1981-08-18	Ray, Jon P.	
	12	8156944	B2	2012-04-17	Han, Li	

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20050016550	A1	2005-01-27	Katase	
	2	20060196518	A1	2006-09-07	Hon, Lik	
	3	20110277760	A1	2011-11-17	Terry et al.	
	4	20110011396	A1	2011-01-20	Fang, Xiaolin	
	5	20110192399	A1	2011-08-11	Wilke et al.	

Receipt date: 07/07/2014 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813	13594813 - GAU: 3742
	Filing Date		2012-08-25	
	First Named Inventor	Greg D. Conley		
	Art Unit	3742		
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	6	20110277757	A1	2011-11-17	Terry et al.	
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	1	Wikipedia; Electronic cigarette - Wikipedia, the free encyclopedia; Feb. 9, 2010; http://web.archive.org/web/20100209122659/http://en.wikipedia.org/wiki/Electronic_cigarette						☐

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

Receipt date: 07/07/2014 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813	13594813 - GAU: 3742
	Filing Date		2012-08-25	
	First Named Inventor	Greg D. Conley		
	Art Unit	3742		
	Examiner Name	Thor S. Campbell		
	Attorney Docket Number	FUMA-1001 CIP1		

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☐ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Ralph E. Jocke/	Date (YYYY-MM-DD)	2014-06-20
Name/Print	Ralph E. Jocke	Registration Number	31029

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

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	55202	a01b 12/006	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/07/14 12:55
L5	0	(a24f47/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/07/14 12:57
L6	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/07/14 12:57
L7	0	(a24f047/008).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/07/14 12:57
L8	0	(a24f47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/07/14 12:57
L9	6185	(B60H1/22).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/07/14 12:58
L10	0	(A24F47/08).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/07/14 12:59
L11	0	(A24F47/10).IPCR.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/07/14 12:59
L12	5800	(f24h3/00).IPCR.	US-PGPUB; USPAT;	OR	OFF	2014/07/14 12:59

			USOCR; EPO; JPO; DERWENT			
L14	3612	(a24f47/00).IPCR.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/07/14 13:00
L15	11045	(a61m15/00).IPCR.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/07/14 13:03
L16	41	15 and "392"/\$.cls.	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/07/14 13:04
L17	6	16 and breath	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/07/14 13:04
L18	12	16 and generator	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/07/14 13:05
L19	47	("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	2014/07/14 13:11
L20	6	19 and generator	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/07/14 13:11
S1	1	"13594813"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:19
S2	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	2014/04/07 13:20
S3	1	"12843917"	US- PGPUB; USPAT; EPO; JPO;	OR	OFF	2014/04/07 13:26

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S4	1	"12843917"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:27
S5	2	"20090272379"	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:38
S6	4220	cigarette and generator	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:45
S7	3438	vaporizer and generator	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:45
S8	34	S6 and S7	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:45
S9	1208	generator same breath	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:47
S10	2	electrical adj generator same breath	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:48
S11	15	miniature adj electrical adj generator	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:48
S12	0	("2008/0303286").URPN.	USPAT	OR	OFF	2014/04/07 13:51
S13	0	("2008/0303286").URPN.	USPAT	OR	OFF	2014/04/07 13:51
S14	9	miniature adj turbine and electrical adj generator	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:51
S15	0	miniature adj turbine same electrical adj generator	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:53
S16	263	vaporizer and photovoltaic	US- PGPUB; USPAT; EPO; JPO;	OR	OFF	2014/04/07 13:55

			DERWENT			
S17	109	"392"/\$.cds. and photovoltaic	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:56
S18	3	"392"/\$.cds. and photovoltaic and cigarette	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:56
S19	0	e-cigarette and solar	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:57
S20	40	e-cigarette	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:58
S21	0	e-cigarette and photovoltaic	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:58
S22	3	e-cigarette and photo	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:58
S23	27048	vaporizer or (air adj freshener) and solar	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 14:01
S24	27048	vaporizer or ((air adj freshener) and solar)	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 14:01
S25	1213	(vaporizer or (air adj freshener)) and solar	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 14:01
S26	159	(vaporizer or (air adj freshener)) and solar and photovoltaic	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 14:02
S27	0	("2013/0309102").URPN.	USPAT	OR	OFF	2014/04/07 14:04

EAST Search History (Interference)

< This search history is empty >

7/ 14/ 2014 1:12:19 PM**C:\Users\tcampbell3\Documents\EAST\Workspaces\13594813.wsp**

Search Notes 	Application/Control No. 13594813	Applicant(s)/Patent Under Reexamination CONLEY ET AL.
	Examiner THOR CAMPBELL	Art Unit 3742

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
EAST attached	4/7/14	tsc
updated previous	7/14/14	tsc

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	SEE EAST	7/14/14	tsc

	/THOR CAMPBELL/ Primary Examiner.Art Unit 3742
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Conley, et al.	)	
	)	Art Unit
App. No.: 13/594,813	)	3742
	)	
Confirm. No.: 1027	)	
	)	
Filed: August 25, 2012	)	Primary Examiner
	)	Thor S. Campbell
For: ELECTRONIC VAPORIZER	)	
	)	

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

RESPONSE TO OFFICE ACTION

Sir:

In response to the Office Action dated April 10, 2014, kindly amend the above Application, without prejudice, as follows:

Amendments to the Claims

1. (currently amended) An apparatus comprising:

a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising:

a housing that comprises an interior;

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;
and

a power harvesting device operative to acquire energy from ~~the environment~~ an airflow for use with powering the heating element.

2. (currently amended) The apparatus of claim 1, wherein the cartridge further comprises an absorbent material located in the interior of the housing, wherein the absorbent material ~~comprises~~ includes the solution, and wherein the heating element is operative to vaporize ~~vaporizes~~ the solution that is included in the absorbent material.

3. (currently amended) The apparatus of claim 2, wherein the cartridge includes opposed first and second ends ~~is an enclosed cylinder that~~ wherein the cartridge includes an airflow

passageway that extends through the interior between the first and second ends ~~comprises a first end and a second end that is opposite the first end.~~

4. (currently amended) The apparatus of claim 3, wherein the cartridge includes a central longitudinal axis between the first end and the second end, wherein the cartridge further comprises a first aperture on the first end and a second aperture on the second end, wherein ~~an~~ the airflow passageway exists ~~extends~~ axially between the first end and the second end along the central longitudinal axis, and wherein the airflow passageway is configured to allow airflow through the cartridge.

5. (original) The apparatus of claim 4, wherein the absorbent material surrounds the airflow passageway in the interior of the housing.

6. (original) The apparatus of claim 4, wherein the heating element comprises a wicking material to attract the solution from the absorbent material to the heating element.

7. (currently amended) The apparatus of claim 4, wherein the solution comprises ~~one or more~~ at least one of nicotine, caffeine, ~~or~~ THC, or any combination thereof.

8. (currently amended) The apparatus of claim 1, ~~being adapted for utilization in connection with an electronic cigarette~~ further comprising a second housing that is operative to releasably connect to the housing of the cartridge, wherein the second housing includes the power harvesting device.

9. (currently amended) The apparatus of claim ~~4~~ 8, wherein the housing of the cartridge has a generally cylindrical shape and is an enclosed cylinder that comprises~~includes~~ a first end and a second end that is opposite the first end, and wherein the first end comprises a conductive material that is ~~adapted to~~ operable to place the heating element in electrical connection with the power harvesting device ~~be electrically or electronically coupled to a power source.~~

10. (currently amended) The apparatus of claim 9, wherein the second end is at least partially covered by at least one of a paper, wood, ~~and~~ a flavored covering, or any combination thereof.

11. (original) The apparatus of claim 9, wherein the second end includes a tip comprised of a malleable polymer.

12. (currently amended) ~~The apparatus of claim 1, further comprising~~ An apparatus comprising:

a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising:

a housing that comprises an interior; and

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;

a power harvesting device operative to acquire energy from the environment for use with
powering the heating element; and

at least one controller,

at least one sensor and a data store in operative connection with the at least one
controller, wherein the at least one sensor is operative to detect and store data in the data
store responsive at least in part to characteristics at least one characteristic of at least one
of breath, saliva, sweat, and cells of the user individual, wherein the at least one
controller is operative to cause data representative of the at least one characteristic to be
stored in the data store.

13. (currently amended) ~~The apparatus according to claim 1~~ An apparatus comprising:

a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge
comprising:

a housing that comprises an interior; and

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;

and

a power harvesting device operative to acquire energy from the environment for use with powering the heating element, wherein the power harvesting device includes a generator, wherein air flow through the apparatus is operative to cause the generator to generate electricity usable to power the heating element.

14. (original) The apparatus according to claim 13, further comprising a controller and a data store, wherein the controller is operative responsive at least in part to the generator, to determine an estimate of an amount of vaporized solution inhaled by the individual, and to store data representative of the estimated amount in the data store.

15. (original) The apparatus according to claim 14, wherein the controller is operative to control when to operate the heating element to further vaporize the solution responsive at least in part to the data stored in the data store.

16. (original) The apparatus according to claim 13, further comprising a controller and a reading device, wherein the reading device is operative to acquire data from the individual which is used by the controller to verify that a predetermined individual is adjacent the apparatus prior to causing the heating element to vaporize the solution.

17. (original) The apparatus according to claim 16, wherein the reader device is a biometric reader.

18. (currently amended) The apparatus according to claim ~~45~~13, further comprising a controller and a reading device, wherein the reading device is operative to wirelessly acquire data from an article adjacent the apparatus, which data is used by the controller to verify that a predetermined article is adjacent the apparatus prior to causing the heating element to vaporize the solution.

19. (currently amended) The apparatus according to claim 18, wherein the article includes at least one of a ring, ~~and~~ an item capable of being carried by ~~a user~~ the individual, or a combination thereof.

20. (currently amended) A method comprising:

with an apparatus including a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising 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, wherein the apparatus includes a power harvesting device operative to acquire energy from the environment for use with powering the heating element,

- a) receiving an airflow through the housing;
- b) through operation of the power harvesting device, generating electricity responsive to the airflow in (a); and

c) using the electricity generated in (b) to cause the heating element to vaporize the solution.

21. (new) An apparatus comprising:

a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising:

a housing that comprises an interior, wherein the housing is configured to enable an airflow through the interior of the housing; and

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; and

a power harvesting device operative to generate electrical energy responsive to the airflow, wherein the heating element is operative to use the electrical energy generated by the power harvesting device to vaporize the solution.

REMARKS

Claims 1-4, 7-10, 12-13, 18-20 have been amended herein. Claim 21 has been added. Claims 1-21 are now pending in the Application. No new matter has been added. Entry of the amendment is respectfully requested. Reconsideration is respectfully requested.

The allowance of claim 20 is greatly appreciated.

New claim 21 is directed to an apparatus that recites subject matter from allowed method claim 20. Thus, new claim 21 should be allowable for at least the same reasons as claim 20.

Allowable claims 12 and 13 were amended to be in independent form. Also, claim 19 was amended to depend from claim 18. Thus, claims 12-19 should also be allowable.

Claim 1 has also been amended herein to recite subject matter from allowable claim 20 regarding an airflow. Thus, claim 1 should be allowable as well.

Also, portions of the claims were amended to be more clear.

Support for the amendments is found in the original claims, Specification and Drawings (e.g., Figure 9).

Information Disclosure Statement (IDS)

The present Application is a continuation-in-part of U.S. App. No 12/843,917 filed July 27, 2010. An IDS has been filed herewith that lists references cited in U.S. App. No 12/843,917.

Rejection under 35 U.S.C. § 112

Claim 19 has been amended to depend from claim 18. Withdrawal of the rejection to claim 19 is respectfully requested.

Rejections under 35 U.S.C. § 103

Claims 1-11 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Thorens, et al., U.S. Pub 2009/0272379 (“Thorens”) in view of Gruenbacher, et al., U.S. Pub. No. 2010/0288847 (“Gruenbacher”).

Claims 4-7 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Thorens, in view of Ray, U.S. Patent No. 4,284,089 (“Ray”).

Claim 10 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Thorens.

Claim 1

Applicants respectfully disagree that it would be obvious to combine Thorens and Gruenbacher in a manner that corresponds to original claim 1. In particular, Gruenbacher is directed to an air freshener (e.g., see paragraph [0003]), and one of ordinary skill in the art at the time of the invention would have no apparent reason to modify the smoking system of Thorens (e.g., an electronic cigarette) to include features from an air freshener.

Nevertheless, to advance prosecution, claim 1 has been amended herein to clarify that the recited power harvesting device is operative to acquire energy from an airflow for use with powering the heating element. Neither Thorens nor Gruenbacher discloses or suggests the combination of features and relationships recited in claim 1. It follows that the 35 U.S.C. § 103(a) rejection of claim 1 should be withdrawn.

Dependent claims 2-11

Because claim 1 is now in condition for allowance, it follows that claims 2-11 which depend therefrom should also be in condition for allowance. Thus, the 35 U.S.C. § 103(a) rejections of claims 2-11 should be withdrawn on at least this basis.

In addition, Applicants respectfully submit that the rejection involving Thorens and Ray does not establish a case of *prima facie* obviousness with respect to claims 4-7. In particular, neither of these references discloses or suggests a power harvesting device. Thus, this rejection is improper and should be withdrawn. Also, the rejection involving Thorens and Gruenbacher does not establish a case of *prima facie* obviousness with respect to claims 4-7 because neither of these references discloses or suggests the subject matter recited in claim 4 regarding: an airflow passageway that extends axially between the first end and the second end along the central longitudinal axis.

In addition, Applicants respectfully submit that claim 4 also would not be obvious in view of a hypothetical rejection involving a combination of Thorens, Gruenbacher and Ray. For example, Thorens teaches a smoking device with a cap (215) centrally located on his heating coil 209 (see Figure 2) in order to protect the second end (207b) of the capillary wick (215). As a result, Thorens clearly teaches an air flow (Figure 3) that deviates from an axial flow around this cap (209) in the mouth piece (201) (Figure 2).

Also, Ray specifically teaches away from using combustion or heat to promote effective vaporization (See Column 6, lines 35-37). Rather than a heating coil, Ray teaches using a tubular passageway (28) in the form of a venturi to readily transfer liquid exposed to the low pressure area in the venturi into vapor or a gaseous phase (See Column 6, lines 37-59).

Thus, one of ordinary skill in the art would have no apparent reason supportable by a rational underpinning to combine these incompatible devices in a manner that would destroy the respective advantages and utility that is specifically taught for these respective devices. It follows that the rejection of claim 4, as well as claims 5-7 which depend therefrom, should be withdrawn for these additional reasons.

Conclusion

The indication of allowable subject matter is greatly appreciated. Each of Applicants' pending claims specifically recites features and relationships that are neither disclosed nor suggested in any of the applied art. Furthermore, the applied art is devoid of any apparent reason or rational so as to produce Applicants' invention. Allowance of all of Applicants' pending claims is therefore respectfully requested.

The undersigned will be happy to discuss any aspect of the Application by telephone at the Examiner's convenience.

Respectfully submitted,

/Ralph E. Jocke/

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231 South Broadway
Medina, Ohio 44256
(330) 721-0000

Doc code: IDS

PTO/SB/08a (01-10)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2012. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813
	Filing Date		2012-08-25
	First Named Inventor	Greg D. Conley	
	Art Unit	3742	
	Examiner Name	Thor S. Campbell	
	Attorney Docket Number	FUMA-1001 CIP1	

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	1	7726320	B1	2010-06-01	Robinson, et al.	
	2	3200819	B1	1965-08-17	Gilbert	
	3	7412259	B2	2008-08-12	Yoo et al.	
	4	5865185		1999-02-02	Collins et al.	
	5	5249586		1993-10-05	Morgan et al.	
	6	5115820		1992-05-26	Hauser et al.	
	7	5050621		1991-09-24	Creighton et al.	
	8	4969476		1990-11-13	Bale et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813	
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	First Named Inventor	Greg D. Conley		
	Art Unit	3742		
	Examiner Name	Thor S. Campbell		
	Attorney Docket Number	FUMA-1001 CIP1		

	9	4966171		1990-10-30	Serrano et al.	
	10	4945929		1990-08-07	Egilmex, Nazli	
	11	4284089		1981-08-18	Ray, Jon P.	
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	2	20060196518	A1	2006-09-07	Hon, Lik	
	3	20110277760	A1	2011-11-17	Terry et al.	
	4	20110011396	A1	2011-01-20	Fang, Xiaolin	
	5	20110192399	A1	2011-08-11	Wilke et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813	
	Filing Date		2012-08-25	
	First Named Inventor	Greg D. Conley		
	Art Unit	3742		
	Examiner Name	Thor S. Campbell		
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	6	20110277757	A1	2011-11-17	Terry et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813
	Filing Date		2012-08-25
	First Named Inventor	Greg D. Conley	
	Art Unit	3742	
	Examiner Name	Thor S. Campbell	
	Attorney Docket Number	FUMA-1001 CIP1	

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):			
☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).			
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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.			
Signature	/Ralph E. Jocke/	Date (YYYY-MM-DD)	2014-06-20
Name/Print	Ralph E. Jocke	Registration Number	31029
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Electronic Patent Application Fee Transmittal				
Application Number:		13594813		
Filing Date:		25-Aug-2012		
Title of Invention:		ELECTRONIC VAPORIZER		
First Named Inventor/Applicant Name:		Gregory D. Conley		
Filer:		Ralph E. Jocke		
Attorney Docket Number:		FUMA-1001 CIP1		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	2202	1	40	40
Independent Claims in Excess of 3	2201	2	210	420
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
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Submission- Information Disclosure Stmt	2806	1	90	90
Total in USD (\$)				550

Electronic Acknowledgement Receipt	
EFS ID:	19500252
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	7733
Filer:	Ralph E. Jocke
Filer Authorized By:	
Attorney Docket Number:	FUMA-1001 CIP1
Receipt Date:	07-JUL-2014
Filing Date:	25-AUG-2012
Time Stamp:	11:12:41
Application Type:	Utility under 35 USC 111(a)

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response.pdf	54266	yes	12
			3a0424b45ed1ae4e1ec15bf7247f94d339db5b80		
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	Amendment/Req. Reconsideration-After Non-Final Reject		1		1
	Claims		2		8
	Applicant Arguments/Remarks Made in an Amendment		9		12
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2	Information Disclosure Statement (IDS) Form (SB08)	IDS.pdf	612625	no	5
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Warnings:					
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 13/594,813		Filing Date 08/25/2012		☐ 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), (j), or (m))		N/A		N/A		N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		X \$ =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		X \$ =				
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL				
APPLICATION AS AMENDED – PART II										
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT	07/07/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	* 21	Minus	** 20	= 1	x \$40 =		40		
	Independent (37 CFR 1.16(h))	* 5	Minus	***3	= 2	x \$210 =		420		
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE		460		
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =				
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	☐ Application Size Fee (37 CFR 1.16(s))									
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/594,813	08/25/2012	Gregory D. Conley	FUMA-1001 CIP1	1027
7733	7590	04/10/2014	EXAMINER	
WALKER & JOCKE 231 SOUTH BROADWAY STREET MEDINA, OH 44256			CAMPBELL, THOR S	
			ART UNIT	PAPER NUMBER
			3742	
			MAIL DATE	DELIVERY MODE
			04/10/2014	PAPER

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

Office Action Summary	Application No. 13/594,813	Applicant(s) CONLEY ET AL.	
	Examiner THOR CAMPBELL	Art Unit 3742	AIA (First Inventor to File) Status No

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Status

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☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-20 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) ☒ Claim(s) 20 is/are allowed.
- 7) ☒ Claim(s) 1-11 and 19 is/are rejected.
- 8) ☒ Claim(s) 12-18 is/are objected to.
- 9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

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

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 8/25/12 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date 2/11/13.
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 4) ☐ Other: _____.

Art Unit: 3742

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

Claim Rejections - 35 USC § 112

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

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

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

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

Claim 19 is rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. The claim depends on an unnamed claim.

Claim Rejections - 35 USC § 103

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

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, 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. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-11 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Thorens et al. (US Pub. 2009/0272379) in view of Gruenbacher et al. (US 2010/0288847).

With respect to claim 1, Thorens discloses a housing (shell 101) made of polymer (plastics or composite materials, paragraph 26), having an interior (aerosol forming chamber

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213), and having a heating element in the interior (heating coil 209) to vaporize a solution for oral provision (liquid 205). Thorens does not disclose the use of a power harvesting device to power the heating element.

Gruenbacher discloses a dispenser for volatile compositions including a photovoltaic cell for delivering power to the heating element. It would have been obvious to one of skill in the art to provide the power harvesting means of Gruenbacher on the device of Thorens in order to provide power when battery or other power is not available or desired.

With respect to claim 2, Thorens discloses an absorbent material in the interior of the housing (wick 207) comprising the solution (liquid 205, paragraph 44), the heating element vaporizing the solution in the absorbent material (see middle of paragraph 44).

With respect to claim 3, Thorens discloses the cartridge being an enclosed cylinder having a first end and a second opposite end (see fig. 3, left and right sides).

With respect to claim 8, the apparatus of Thorens is adapted for utilization in connection with an electronic cigarette (see paragraph 2, also note cartridge 203 adapted for shell 101 having battery 103).

With respect to claim 9, Thorens discloses the cartridge being an enclosed cylinder having a first end and a second opposite end (see fig. 3, left and right sides), The first end comprising conductive material (electrical connection 101, electrical contacts 113) electrically coupled to a power source (battery 103).

Claims 4-7 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Thorens as applied to claims 1-3, 8-9, 11 above, and further in view of Ray (US Pat. 4,284,089).

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With respect to claim 4, Thorens discloses a second aperture on a second end (air outlet 211).

Thorens does not disclose a first aperture on a first end or an airflow passageway axially between the first end and second end. However, Ray discloses a first aperture on a first end (intake end 18) and an airflow passageway between a first end and a second end (tubular passageway 28).

With respect to claim 5, Ray discloses absorbent material (absorbent member 14) surrounding the airflow passageway (tubular passageway 28).

With respect to claim 6, Thorens discloses the heating element (heating coil 209) comprising wicking material (wick 207 near coil 209, right side of fig. 2) attracting solution (liquid 205) from absorbent material (wick 207 being absorbent material in liquid 205, left side of fig. 2) to the heating element. Additionally, Ray discloses the solution in an absorbent member 14.

With respect to claim 7, Thorens discloses the solution comprising nicotine (tobacco-containing material, paragraph 22).

It would have been obvious to one of ordinary skill in the art to implement the passageway and absorbent material structure of Ray into Thorens to provide a clear passageway for air that would also easily carry the vaporized solution.

Claim 10 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Thorens as applied to claims 1-3, 8-9, 11-16 and 19-20 above. Thorens discloses the claimed invention except for the second end at least partially covered by wood or paper. It would have been obvious to one having ordinary skill in the art at the time the invention was made to cover the second end with wood, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious engineering choice. In re Leshin, 125 USPQ 416. The selection of a known material

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based on its suitability for its intended use supported a prima facie obviousness determination (MPEP 2144.07).

Allowable Subject Matter

Claims 12-18 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.

Claim 20 is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOR CAMPBELL whose telephone number is (571)272-4776. The examiner can normally be reached on Mon, W-F 5:30AM-3:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 571-272-4856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thor S. Campbell/

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Art Unit: 3742

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Primary Examiner
Art Unit 3742

tsc

Notice of References Cited	Application/Control No. 13/594,813	Applicant(s)/Patent Under Reexamination CONLEY ET AL.	
	Examiner THOR CAMPBELL	Art Unit 3742	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2008/0073443 A1	03-2008	Tollens et al.	239/004
*	B	US-2008/0303286 A1	12-2008	Vangel, Peter D.	290/55
*	C	US-2009/0272379 A1	11-2009	THORENS et al.	128/202.21
*	D	US-7,832,655 B2	11-2010	Tollens et al.	239/4
*	E	US-2013/0309102 A1	11-2013	GRUENBACHER et al.	417/54
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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NON-PATENT DOCUMENTS

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

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

<i>Index of Claims</i> 	Application/Control No. 13594813	Applicant(s)/Patent Under Reexamination CONLEY ET AL.
	Examiner THOR CAMPBELL	Art Unit 3742

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

☐ Claims renumbered in the same order as presented by applicant										☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM			DATE												
Final	Original	04/07/2014													
	1	✓													
	2	✓													
	3	✓													
	4	✓													
	5	✓													
	6	✓													
	7	✓													
	8	✓													
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	10	✓													
	11	✓													
	12	O													
	13	O													
	14	O													
	15	O													
	16	O													
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	18	O													
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Search Notes 	Application/Control No. 13594813	Applicant(s)/Patent Under Reexamination CONLEY ET AL.
	Examiner THOR CAMPBELL	Art Unit 3742

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
EAST attached	4/7/14	tsc

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

	/THOR CAMPBELL/ Primary Examiner.Art Unit 3742
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Receipt date: 02/11/2013

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

13594813 - GAIL-3742

Approved for use through 07/31/2012. OMB 0651-0031

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	13594813
	Filing Date	2012-08-25
	First Named Inventor	Greg D. Conley
	Art Unit	3742
	Examiner Name	
	Attorney Docket Number	FUMA-1001 CIP1

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7832410	B2	2010-11-16	Lik Hon	
	2	D613904	S	2010-04-13	Jianyong Wu	
	3	D613903	S	2010-04-13	Jianyong Wu	
	4	D590991	S	2009-04-21	Lik Hon	
	5	D590990	S	2009-04-21	Lik Hon	
	6	D590989	S	2009-04-21	Lik Hon	
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	Filing Date		2012-08-25	
	First Named Inventor	Greg D. Conley		
	Art Unit	3742		
	Examiner Name			
	Attorney Docket Number	FUMA-1001 CIP1		

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20100242974	A1	2010-09-30	Guocheng Pan	
	2	20100200008	A1	2010-08-12	Eli Taieb	
	3	20100200006	A1	2010-08-12	John Howard Robinson, et al.	
	4	20100037903	A1	2010-02-18	William Monroe Coleman III, et al.	
	5	20100031968	A1	2010-02-11	Tariq Sheikh, et al.	
	6	20090126745	A1	2009-05-21	Lik Hon	
	7	20090095311	A1	2009-04-16	Li Han	
	8	20080276947	A1	2008-11-13	Didier Gerard Martzel	
	9	20080257367	A1	2008-10-23	Greg Paterno, et al.	
	10	20080247892	A1	2008-10-09	Kazuo Kawasumi	

Receipt date: 02/11/2013 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813	13594813 - GAU: 3742
	Filing Date		2012-08-25	
	First Named Inventor	Greg D. Conley		
	Art Unit	3742		
	Examiner Name			
	Attorney Docket Number	FUMA-1001 CIP1		

	11	20080230052	A1	2008-09-25	Akbar Montaser	
	12	20080092912	A1	2008-04-24	John Howard Robinson, et al.	
	13	20070267031	A1	2007-11-22	Lik Hon	

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Examiner Signature	/Thor Campbell/ (04/07/2014)		Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813	13594813 - GAU: 3742
	Filing Date		2012-08-25	
	First Named Inventor	Greg D. Conley		
	Art Unit	3742		
	Examiner Name			
	Attorney Docket Number	FUMA-1001 CIP1		

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"13594813"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:19
L2	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	2014/04/07 13:20
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L4	1	"12843917"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:27
L5	2	"20090272379"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:38
L6	4220	cigarette and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:45
L7	3438	vaporizer and generator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:45
L8	34	6 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:45
L9	1208	generator same breath	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:47
L10	2	electrical adj generator same breath	US-	OR	OFF	2014/04/07

			PGPUB; USPAT; EPO; JPO; DERWENT			13:48
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L12	0	("2008/0303286").URPN.	USPAT	OR	OFF	2014/04/07 13:51
L13	0	("2008/0303286").URPN.	USPAT	OR	OFF	2014/04/07 13:51
L14	9	miniature adj turbine and electrical adj generator	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:51
L15	0	miniature adj turbine same electrical adj generator	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:53
L16	263	vaporizer and photovoltaic	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:55
L17	109	"392"/\$.cls. and photovoltaic	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:56
L18	3	"392"/\$.cls. and photovoltaic and cigarette	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:56
L19	0	e-cigarette and solar	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:57
L20	40	e-cigarette	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:58
L21	0	e-cigarette and photovoltaic	US- PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2014/04/07 13:58
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L27	0	("2013/0309102").URPN.	USPAT	OR	OFF	2014/04/07 14:04

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/594,813	08/25/2012	Gregory D. Conley	FUMA-1001 CIP1

CONFIRMATION NO. 1027

PUBLICATION NOTICE



OC00000063498674

7733
WALKER & JOCKE
231 SOUTH BROADWAY STREET
MEDINA, OH 44256

Title:ELECTRONIC VAPORIZER

Publication No.US-2013-0220315-A1

Publication Date:08/29/2013

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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.

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

PLUS Search Results for S/N 13594813, Searched Thu Jun 27 10:35:41 EDT 2013
 The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/594,813				
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 <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A	70		N/A				
SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A	300		N/A				
EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A	360		N/A				
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	20	minus 20 = *	x 40	= 0.00	OR					
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	2	minus 3 = *	x 210	= 0.00						
APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	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 <small>(37 CFR 1.16(j))</small>				0.00						
			TOTAL	730		TOTAL				
* If the difference in column 1 is less than zero, enter "0" in column 2.										
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 <small>(37 CFR 1.16(i))</small>	*	Minus	**	=	x	=	OR	x	=
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee <small>(37 CFR 1.16(s))</small>							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total <small>(37 CFR 1.16(i))</small>	*	Minus	**	=	x	=	OR	x	=
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee <small>(37 CFR 1.16(s))</small>							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
13/594,813	08/25/2012	2853	598	FUMA-1001 CIP1	20	2

CONFIRMATION NO. 1027

UPDATED FILING RECEIPT



OC000000061248546

7733
WALKER & JOCKE
231 SOUTH BROADWAY STREET
MEDINA, OH 44256

Date Mailed: 05/22/2013

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Inventor(s)

Gregory D. Conley, Medina, OH;
Daniel C. Hillenbrandt, Medina, OH;
Michael Mandela, Broadview Heights, OH;
William E. Steiger, Richfield, OH;
Rebecca L. Conley, Medina, OH;

Applicant(s)

Gregory D. Conley, Medina, OH;
Daniel C. Hillenbrandt, Medina, OH;
Michael Mandela, Broadview Heights, OH;
William E. Steiger, Richfield, OH;
Rebecca L. Conley, Medina, OH;

Assignment For Published Patent Application

FUMA INTERNATIONAL LLC, Medina, OH

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 12/843,917 07/27/2010
which claims benefit of 61/273,097 07/31/2009
and claims benefit of 61/271,819 07/27/2009
This application 13/594,813
claims benefit of 61/527,434 08/25/2011

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.

If Required, Foreign Filing License Granted: 09/04/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/594,813**

Projected Publication Date: 08/29/2013

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

ELECTRONIC VAPORIZER

Preliminary Class

347

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

page 2 of 4

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

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

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

NOT GRANTED

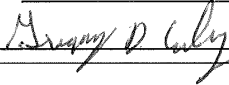
No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application.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

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**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(s), I/we declare that:</p> <p>This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>13/594,813</u> filed on <u>August 25, 2012</u> ☐ As amended on _____ (if applicable);</p> <p>I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;</p> <p>I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;</p> <p>I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.</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>All statements made herein of my/our own knowledge are true, all statements made herein 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 are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.</p>	
FULL NAME OF INVENTOR(S)	
Inventor one: <u>Gregory D. Conley</u>	Date: <u>January 23, 2013</u>
Signature: <u></u>	Citizen of: <u>U.S.</u>
Inventor two: _____	Date: _____
Signature: _____	Citizen of: _____
☒ Additional inventors or a legal representative are being named on <u>4</u> additional form(s) attached hereto.	

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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**NJOY Exhibit 2041.166
Juul v. NJOY
IPR2024-00161**

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

Title of Invention	ELECTRONIC VAPORIZER
---------------------------	-----------------------------

As the below named inventor(s), I/we declare that:

This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number 13/594,813 filed on August 25, 2012 ☐ As amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

WARNING:

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

All statements made herein of my/our own knowledge are true, all statements made herein 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 are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR(S)

Inventor one: Daniel C. Hillenbrandt Date: January 23, 2013

Signature: *Daniel C. Hillenbrandt* Citizen of: U.S.

Inventor two: _____ Date: _____

Signature: _____ Citizen of: _____

☒ Additional inventors or a legal representative are being named on 4 additional form(s) attached hereto.

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
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This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number 13/594,813 filed on August 25, 2012 ☐ As amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

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FULL NAME OF INVENTOR(S)	
Inventor one: <u>Michael Mandela</u>	Date: <u>January 23, 2013</u>
Signature: <u>Michael Mandela</u>	Citizen of: <u>U.S.</u>
Inventor two: _____	Date: _____
Signature: _____	Citizen of: _____

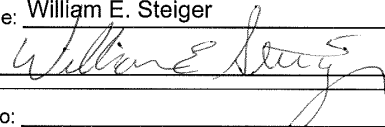
☒ Additional inventors or a legal representative are being named on 4 additional form(s) attached hereto.

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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(s), I/we declare that:</p> <p>This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>13/594,813</u> filed on <u>August 25, 2012</u> ☐ As amended on _____ (if applicable);</p> <p>I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;</p> <p>I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;</p> <p>I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.</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>All statements made herein of my/our own knowledge are true, all statements made herein 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 are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.</p> <p>FULL NAME OF INVENTOR(S)</p> <p>Inventor one: <u>William E. Steiger</u> Date: <u>January 23, 2013</u> Signature: <u></u> Citizen of: <u>U.S.</u></p> <p>Inventor two: _____ Date: _____ Signature: _____ Citizen of: _____</p> <p>☒ Additional inventors or a legal representative are being named on <u>4</u> additional form(s) attached hereto.</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.

NJOY Exhibit 2041.169
Juul v. NJOY
IPR2024-00161

**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(s), I/we declare that:</p> <p>This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>13/594,813</u> filed on <u>August 25, 2012</u> ☐ As amended on _____ (if applicable);</p> <p>I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;</p> <p>I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;</p> <p>I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.</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>All statements made herein of my/our own knowledge are true, all statements made herein 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 are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.</p> <p>FULL NAME OF INVENTOR(S)</p> <p>Inventor one: <u>Rebecca L. Conley</u> Date: <u>January 23, 2013</u> Signature: <u>Rebecca L Conley</u> Citizen of: <u>U.S. Canada</u></p> <p>Inventor two: _____ Date: _____ Signature: _____ Citizen of: _____</p> <p>☒ Additional inventors or a legal representative are being named on <u>4</u> additional form(s) attached hereto.</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.

**NJOY Exhibit 2041.170
Juul v. NJOY
IPR2024-00161**

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813
	Filing Date		2012-08-25
	First Named Inventor	Greg D. Conley	
	Art Unit	3742	
	Examiner Name		
	Attorney Docket Number	FUMA-1001 CIP1	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7832410	B2	2010-11-16	Lik Hon	
	2	D613904	S	2010-04-13	Jianyong Wu	
	3	D613903	S	2010-04-13	Jianyong Wu	
	4	D590991	S	2009-04-21	Lik Hon	
	5	D590990	S	2009-04-21	Lik Hon	
	6	D590989	S	2009-04-21	Lik Hon	
	7	D590988	S	2009-04-21	Lik Hon	
If you wish to add additional U.S. Patent citation information please click the Add button.						Add
U.S.PATENT APPLICATION PUBLICATIONS						Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813	
	Filing Date		2012-08-25	
	First Named Inventor	Greg D. Conley		
	Art Unit	3742		
	Examiner Name			
	Attorney Docket Number	FUMA-1001 CIP1		

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20100242974	A1	2010-09-30	Guocheng Pan	
	2	20100200008	A1	2010-08-12	Eli Taieb	
	3	20100200006	A1	2010-08-12	John Howard Robinson, et al.	
	4	20100037903	A1	2010-02-18	William Monroe Coleman III, et al.	
	5	20100031968	A1	2010-02-11	Tariq Sheikh, et al.	
	6	20090126745	A1	2009-05-21	Lik Hon	
	7	20090095311	A1	2009-04-16	Li Han	
	8	20080276947	A1	2008-11-13	Didier Gerard Martzel	
	9	20080257367	A1	2008-10-23	Greg Paterno, et al.	
	10	20080247892	A1	2008-10-09	Kazuo Kawasumi	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813	
	Filing Date		2012-08-25	
	First Named Inventor	Greg D. Conley		
	Art Unit	3742		
	Examiner Name			
	Attorney Docket Number	FUMA-1001 CIP1		

	11	20080230052	A1	2008-09-25	Akbar Montaser	
	12	20080092912	A1	2008-04-24	John Howard Robinson, et al.	
	13	20070267031	A1	2007-11-22	Lik Hon	

If you wish to add additional U.S. Published Application citation information please click the Add button. **Add**

FOREIGN PATENT DOCUMENTS								Remove
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button **Add**

NON-PATENT LITERATURE DOCUMENTS			Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

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

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813
	Filing Date		2012-08-25
	First Named Inventor	Greg D. Conley	
	Art Unit		3742
	Examiner Name		
	Attorney Docket Number		FUMA-1001 CIP1

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13594813
	Filing Date		2012-08-25
	First Named Inventor	Greg D. Conley	
	Art Unit	3742	
	Examiner Name		
	Attorney Docket Number	FUMA-1001 CIP1	

CERTIFICATION STATEMENT			
Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):			
☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).			
OR			
☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).			
☐ See attached certification statement.			
☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.			
☒ None			
SIGNATURE			
A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.			
Signature	/Christopher L. Parmelee/	Date (YYYY-MM-DD)	2013-02-11
Name/Print	Christopher L. Parmelee	Registration Number	42980
<p>This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p>			

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.

Electronic Patent Application Fee Transmittal				
Application Number:		13594813		
Filing Date:		25-Aug-2012		
Title of Invention:		ELECTRONIC VAPORIZER		
First Named Inventor/Applicant Name:		Gregory D. Conley		
Filer:		Christopher L. Parmelee		
Attorney Docket Number:		FUMA-1001 CIP1		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	98	98
Utility Search Fee	2111	1	310	310
Utility Examination Fee	2311	1	125	125
Pages:				
Claims:				
Miscellaneous-Filing:				
Late filing fee for oath or declaration	2051	1	65	65
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with \$0 paid	2253	1	645	645
Miscellaneous:				
Total in USD (\$)				1243

Electronic Acknowledgement Receipt	
EFS ID:	14924221
Application Number:	13594813
International Application Number:	
Confirmation Number:	1027
Title of Invention:	ELECTRONIC VAPORIZER
First Named Inventor/Applicant Name:	Gregory D. Conley
Customer Number:	7733
Filer:	Christopher L. Parmelee
Filer Authorized By:	
Attorney Docket Number:	FUMA-1001 CIP1
Receipt Date:	11-FEB-2013
Filing Date:	25-AUG-2012
Time Stamp:	12:58:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 1243
RAM confirmation Number	10381
Deposit Account	100637
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

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Juul v. NJOY
IPR2024-00161

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)					
Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)					
Charge any Additional Fees required under 37 C.F.R. Section 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	Oath or Declaration filed	Declaration.pdf	757026 e7b87d557792a75a21ef45fce45405fcb57d2fd	no	5
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	IDS.pdf	612614 21f7d28b5e80fd749e2fdca7d04fc33ffa012f8	no	6
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	38582 382c322c330a974b4f5ef797d46eae42c402191f	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1408222		
<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 13/594,813				
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	95		N/A				
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	310		N/A				
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	125		N/A				
TOTAL CLAIMS (37 CFR 1.16(i))	20	minus 20 = *	x 30	= 0.00	OR					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *	x 125	= 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						
			TOTAL	530		TOTAL				
* If the difference in column 1 is less than zero, enter "0" in column 2.										
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	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	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	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/594,813	08/25/2012	Gregory D. Conley	FUMA-1001 CIP1

CONFIRMATION NO. 1027

FORMALITIES LETTER



OC000000056344471

Date Mailed: 09/10/2012

7733
WALKER & JOCKE
231 SOUTH BROADWAY STREET
MEDINA, OH 44256

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

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

- The statutory basic filing fee is missing.

Applicant must submit \$95 to complete the basic filing fee for a small entity.

- The oath or declaration is missing.

A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.

Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- A surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted.

SUMMARY OF FEES DUE:

Total fee(s) required within **TWO MONTHS** from the date of this Notice is **\$595** for a small entity

- **\$95** Statutory basic filing fee.
- **\$65** Surcharge.
- The application search fee has not been paid. Applicant must submit **\$310** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit **\$125** to complete the examination fee for a small entity in compliance with 37 CFR 1.27.

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Mail Stop Missing Parts
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P.O. Box 1450
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/ebanaybanay/

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



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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
13/594,813	08/25/2012	2853	0.00	FUMA-1001 CIP1	20	2

CONFIRMATION NO. 1027

7733

WALKER & JOCKE

231 SOUTH BROADWAY STREET

MEDINA, OH 44256

FILING RECEIPT



OC000000056344470

Date Mailed: 09/10/2012

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Applicant(s)

Gregory D. Conley, Medina, OH;
Daniel C. Hillenbrandt JR., Medina, OH;
Michael Mandela, Broadview Heights, OH;
William E. Steiger, Richfield, OH;
Rebecca L. Conley, Medina, OH;

Assignment For Published Patent Application

FUMA INTERNATIONAL LLC, Medina, OH

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 12/843,917 07/27/2010
which claims benefit of 61/273,097 07/31/2009
and claims benefit of 61/271,819 07/27/2009
This application 13/594,813
claims benefit of 61/527,434 08/25/2011

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

If Required, Foreign Filing License Granted: 09/04/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/594,813**

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

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

ELECTRONIC VAPORIZER

Preliminary Class

347

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	FUMA-1001 CIP1
		Application Number	
Title of Invention	ELECTRONIC VAPORIZER		
<p>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.</p> <p>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.</p>			

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.)

Applicant Information:

Applicant 1					Remove
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117	☐ Party of Interest under 35 U.S.C. 118
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 i	US
Citizenship under 37 CFR 1.41(b) i		US			
Mailing Address of Applicant:					
Address 1		644 Tremain Place			
Address 2					
City	Medina	State/Province	OH		
Postal Code	44256	Country i	US		
Applicant 2					Remove
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117	☐ Party of Interest under 35 U.S.C. 118
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Daniel	C.	Hillenbrandt	Jr.	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Medina	State/Province	OH	Country of Residence i	US
Citizenship under 37 CFR 1.41(b) i		US			
Mailing Address of Applicant:					
Address 1		7343 Chatham Road			
Address 2					
City	Medina	State/Province	OH		
Postal Code	44256	Country i	US		
Applicant 3					Remove
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117	☐ Party of Interest under 35 U.S.C. 118
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Michael		Mandela		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Broadview Heights	State/Province	OH	Country of Residence i	US

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		FUMA-1001 CIP1	
		Application Number			
Title of Invention		ELECTRONIC VAPORIZER			
Citizenship under 37 CFR 1.41(b) i		US			
Mailing Address of Applicant:					
Address 1		3451 Mark Drive			
Address 2					
City	Broadview Heights		State/Province	OH	
Postal Code	44174		Countryi	US	
Applicant 4					Remove
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117	
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Prefix	Given Name		Middle Name	Family Name	
	William		E.	Steiger	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Richfield		State/Province	OH	Country of Residence i
				US	
Citizenship under 37 CFR 1.41(b) i		US			
Mailing Address of Applicant:					
Address 1		3019 Overdale Dr.			
Address 2					
City	Richfield		State/Province	OH	
Postal Code	44286		Countryi	US	
Applicant 5					Remove
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117	
				☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name		Middle Name	Family Name	
	Rebecca		L.	Conley	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Medina		State/Province	OH	Country of Residence i
				US	
Citizenship under 37 CFR 1.41(b) i		US			
Mailing Address of Applicant:					
Address 1		664 Tremain Place			
Address 2					
City	Medina		State/Province	OH	
Postal Code	44256		Countryi	US	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add

Correspondence Information:

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

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

Customer Number 07733

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	FUMA-1001 CIP1
		Application Number	
Title of Invention	ELECTRONIC VAPORIZER		
Email Address	iplaw@walkerandjocke.com		<input type="button" value="Add Email"/> <input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	ELECTRONIC VAPORIZER		
Attorney Docket Number	FUMA-1001 CIP1	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	6	Suggested Figure for Publication (if any)	9

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). Enter either 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	07733		

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This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this 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(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.			
Prior Application Status	Pending	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation in part of	12843917	2010-07-27
Prior Application Status	Pending	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
12843917	non provisional of	61273097	2009-07-31
Prior Application Status		<input type="button" value="Remove"/>	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	FUMA-1001 CIP1
		Application Number	
Title of Invention	ELECTRONIC VAPORIZER		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
12843917	non provisional of	61271819	2009-07-27
Prior Application Status	<input type="button" value="Remove"/>		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61527434	2011-08-25
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).			
			<input type="button" value="Remove"/>
Application Number	Country ⁱ	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			☒ Yes ☐ No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.			
			<input type="button" value="Remove"/>
Assignee 1			
If the Assignee is an Organization check here. ☒			
Organization Name	FUMA INTERNATIONAL LLC		
Mailing Address Information:			
Address 1			
Address 2			
City	Medina	State/Province	OH
Country ⁱ	US	Postal Code	
Phone Number		Fax Number	
Email Address			
Additional Assignee Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.					
Signature	/Christopher L. Parmelee/			Date (YYYY-MM-DD)	2012-08-25
First Name	Christopher	Last Name	Parmelee	Registration Number	42980

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	FUMA-1001 CIP1
		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.**

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

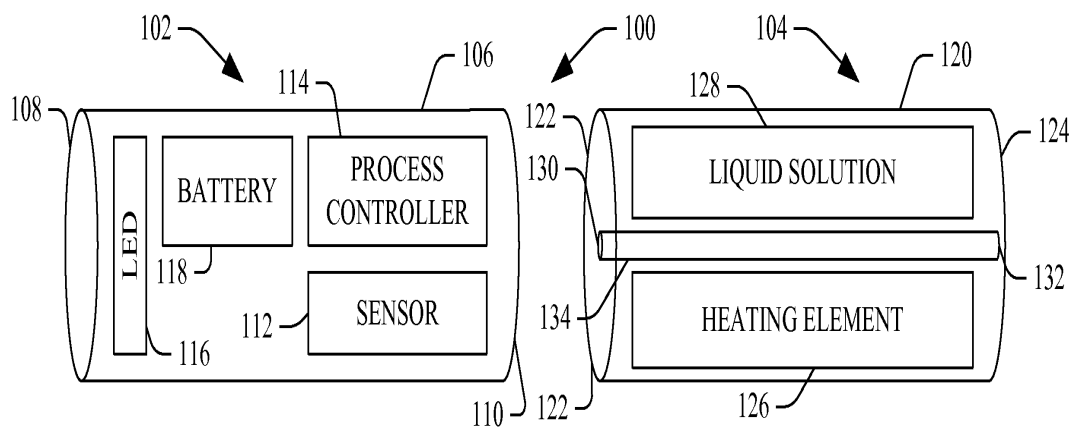


FIG. 1

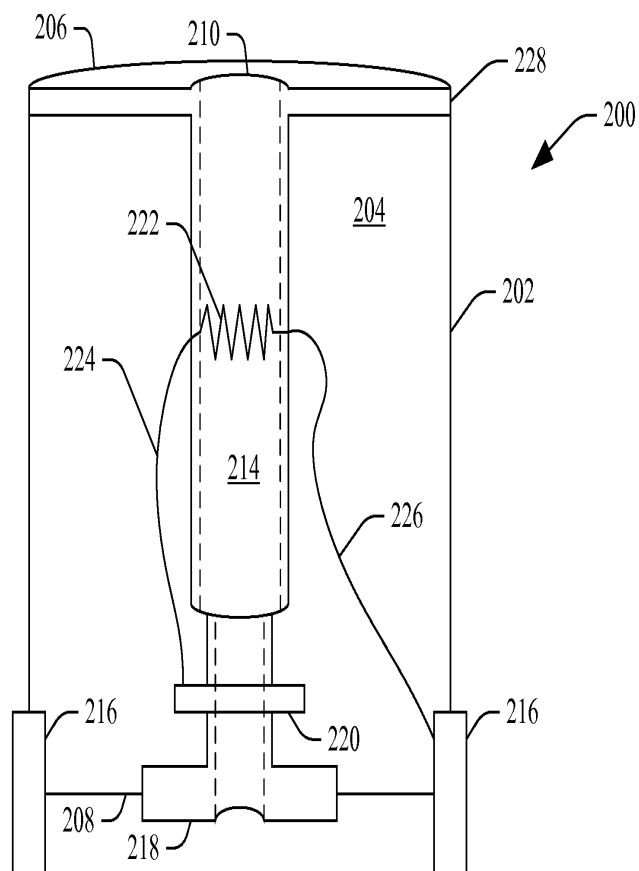


FIG. 2

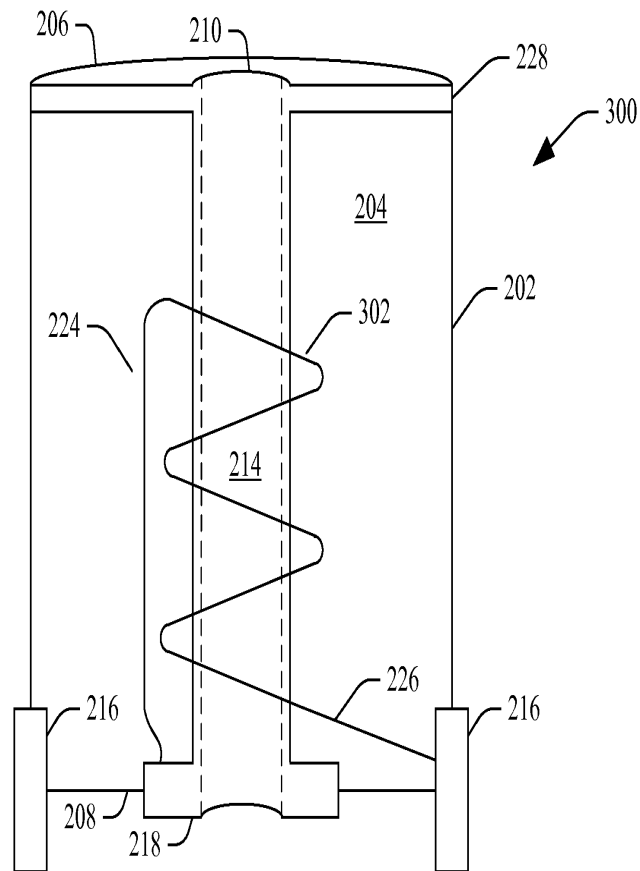


FIG. 3

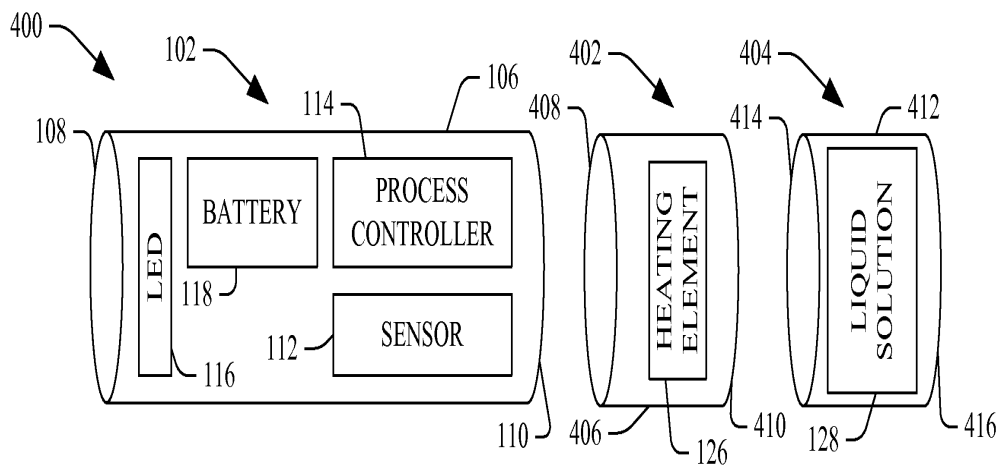


FIG. 4

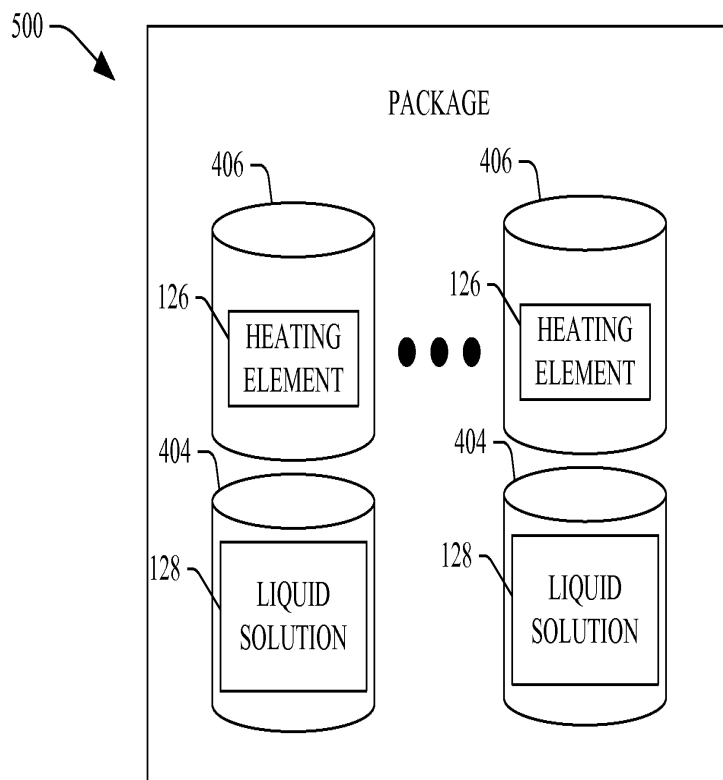


FIG. 5

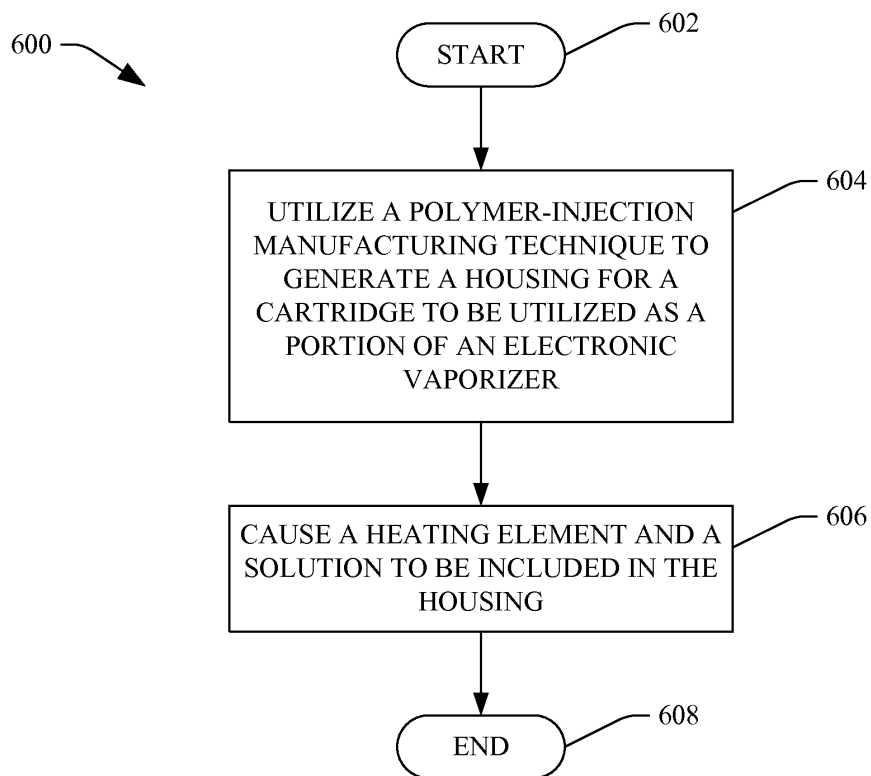


FIG. 6

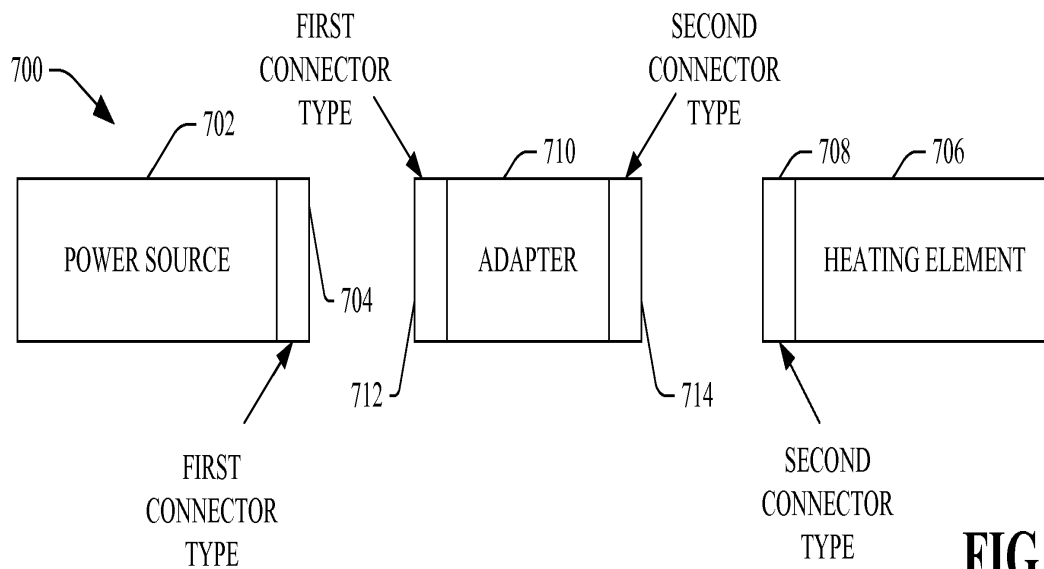


FIG. 7

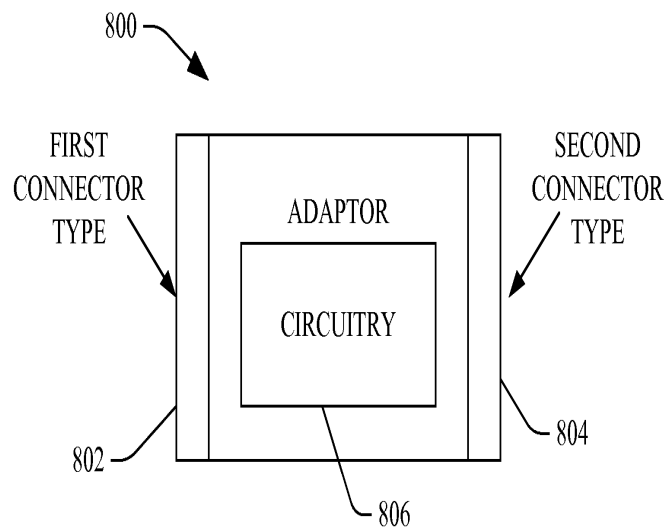


FIG. 8

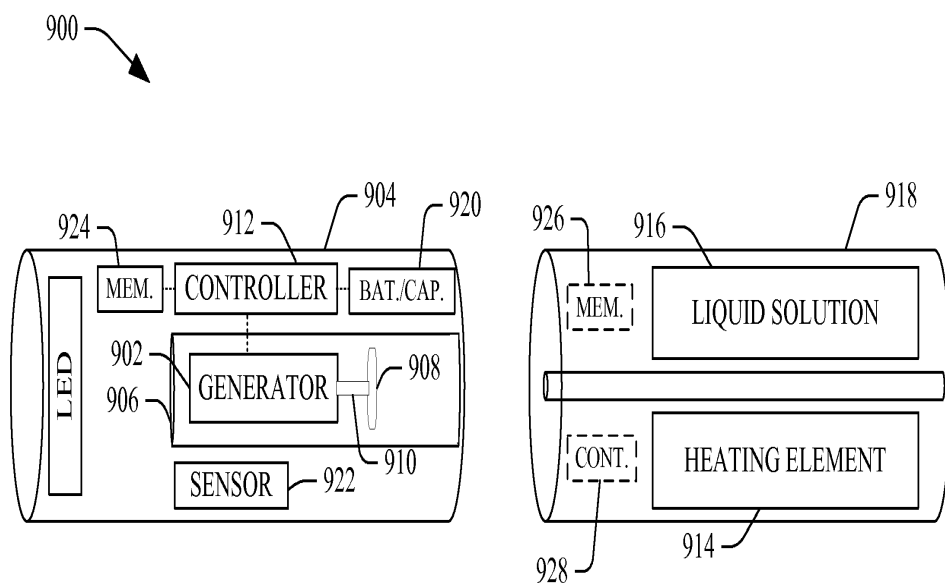


FIG. 9

Title: ELECTRONIC VAPORIZER

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 116 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 capsule 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 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, propellerairfoil, 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, airduct, 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 Powerharvester 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 pharmacist 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 may be 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 autoinjector or other type of autoinjector 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 autoinjector 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 autoinjector may be capable of being activated by placing an end of the housing/cartridge with the autoinjector adjacent a user's body (e.g. a muscle) and pressing a button which causes a spring loaded needle in the autoinjector 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, autoinjector) 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 gashouses, 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

What is claimed is:

1. An apparatus comprising:

a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising:

a housing that comprises an interior;

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; and

a power harvesting device operative to acquire energy from the environment for use with powering the heating element.
2. The apparatus of claim 1, wherein the cartridge further comprises an absorbent material located in the interior of the housing, wherein the absorbent material comprises the solution, and wherein the heating element vaporizes the solution in the absorbent material.
3. The apparatus of claim 2, wherein the cartridge is an enclosed cylinder that comprises a first end and a second end that is opposite the first end.
4. The apparatus of claim 3, wherein the cartridge further comprises a first aperture on the first end and a second aperture on the second end, wherein an airflow passageway exists axially between the first end and the second end, and wherein the airflow passageway is configured to allow airflow through the cartridge.
5. The apparatus of claim 4, wherein the absorbent material surrounds the airflow passageway in the interior of the housing.

6. The apparatus of claim 4, wherein the heating element comprises a wicking material to attract the solution from the absorbent material to the heating element.
7. The apparatus of claim 4, wherein the solution comprises one or more of nicotine, caffeine, or THC.
8. The apparatus of claim 1, being adapted for utilization in connection with an electronic cigarette.
9. The apparatus of claim 1, wherein the cartridge is an enclosed cylinder that comprises a first end and a second end that is opposite the first end, and wherein the first end comprises conductive material that is adapted to be electrically or electronically coupled to a power source.
10. The apparatus of claim 9, wherein the second end is at least partially covered by at least one of a paper, wood and a flavored covering.
11. The apparatus of claim 9, wherein the second end includes a tip comprised of a malleable polymer.
12. The apparatus of claim 1, further comprising at least one sensor and a data store, wherein the at least one sensor is operative to detect and store data in the data store responsive at least in part to characteristics of at least one of breath, saliva, sweat, and cells of the user.
13. The apparatus according to claim 1, wherein the power harvesting device includes a generator, wherein air flow through the apparatus is operative to cause the generator to generate electricity usable to power the heating element.
14. The apparatus according to claim 13, further comprising a controller and a data store, wherein the controller is operative responsive at least in part to the generator, to determine an

estimate of an amount of vaporized solution inhaled by the individual, and to store data representative of the estimated amount in the data store.

15. The apparatus according to claim 14, wherein the controller is operative to control when to operate the heating element to further vaporize the solution responsive at least in part to the data stored in the data store.

16. The apparatus according to claim 13, further comprising a controller and a reading device, wherein the reading device is operative to acquire data from the individual which is used by the controller to verify that a predetermined individual is adjacent the apparatus prior to causing the heating element to vaporize the solution.

17. The apparatus according to claim 16, wherein the reader device is a biometric reader.

18. The apparatus according to claim 15, further comprising a controller and a reading device, wherein the reading device is operative to wirelessly acquire data from an article adjacent the apparatus, which data is used by the controller to verify that a predetermined article is adjacent the apparatus prior to causing the heating element to vaporize the solution.

19. The apparatus according to claim, wherein the article includes at least one of a ring and an item capable of being carried by a user.

20. A method comprising:

with an apparatus including a cartridge that facilitates provision of a vaporized solution to an individual, the cartridge comprising 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, wherein the apparatus includes a power harvesting device operative to acquire energy from the environment for use with powering the heating element,

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- a) receiving an airflow through the housing;
- b) through operation of the power harvesting device, generating electricity responsive to the airflow in (a); and
- c) using the electricity generated in (b) to cause the heating element to vaporize the solution.

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.

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File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	ADS-sb0014.pdf	1421733	no	6
			66a04527a86401babf2698996e59175450c9748d		
Warnings:					
Information:					

2	Drawings-only black and white line drawings	drawings.pdf	51324 15f9e9a3413a43e190b40ce7c20f045cc939a162	no	6
Warnings:					
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3		Application2.pdf	129499 dc6db172f43fa30f27c2423a7b26f16daecceeb07	yes	28
	Multipart Description/PDF files in .zip description				
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	Specification		1	23	
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