VAPORIZER

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of U.S. Provisional Application Nos. 61/903,344 filed November 12, 2013, 61/937,851, filed February 10, 2014, U.S. Provisional Application No. 62/015,148, filed June 20, 2014, and U.S. Patent Application Serial No. 14/539,801 filed Nov. 12, 2014, the disclosure of which are hereby incorporated herein by reference in their entireties.

FIELD OF THE INVENTION

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

BACKGROUND

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

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

BRIEF SUMMARY

[0005] Embodiments of a vaporizer, in accordance with the disclosure, may include a shell having a battery segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery segment and a base end

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proximate to the battery segment; a cartomizer insertable into the chamber at the insertion end, the cartomizer including: an outer cartomizer shell, a holding structure provided within, and secured to, the outer cartomizer shell, the holding structure including a basin dimensioned to hold a vaporizable substance, a heating element provided within the basin operable to heat the vaporizable substance, cartomizer electrical contacts provided on the exterior of the cartomizer, cartomizer electrical circuitry operable to direct an electronic current between the cartomizer electrical contacts and the heating element, and a mouthpiece fluidly communicable with the basin, the mouthpiece extending from the insertion end of the chamber when the cartomizer is inserted in the chamber, wherein the heating element is activated by the current and is operable to heat the vaporizable substance to a vaporization temperature; a battery housed within the battery segment; battery electrical contacts provided between the base end of the chamber and the battery segment, the battery electrical contacts positioned to contact the cartomizer electrical contacts when the cartomizer is inserted in the chamber; battery electrical circuitry housed within the battery segment and operable to direct an electrical current between the battery, the battery electrical contacts, the cartomizer electrical contacts, the heating element, and the inserted cartomizer.

BRIEF DESCRIPTION OF THE FIGURES

[0006] FIG. 1 illustrates a front view of an embodiment of an electronic cigarette of the disclosure comprising a first embodiment of a battery portion with an embodiment of a cartomizer for use with a vaporizable liquid inserted into a cartomizer chamber of the first embodiment battery portion, the outer shell of the first embodiment battery portion shown transparently so as to illustrate the inner components of the electronic cigarette.

[0007] FIG. 1A illustrates a lateral cross sectional view of the electronic cigarette of FIG. 1 illustrating an electrical connector and magnets.

[0008] FIG. 1B illustrates a lateral cross sectional view of the electronic cigarette of FIG. 1 illustrating the end of the inserted cartomizer.

[0009] FIG. 1C illustrates a lateral cross sectional view of the electronic cigarette of FIG. 1 illustrating the cartomizer chamber.

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[0010] FIG. 2 illustrates a front view of an embodiment of a cartomizer in accordance with the disclosure that may be inserted into the cartomizer chamber of the battery portion of FIG. 1, the outer shell of the first embodiment battery portion shown transparently so as to illustrate the inner components of the electronic cigarette.

[0011] FIG. 2A illustrates a lateral cross sectional view of the cartomizer of FIG. 2 illustrating the end of the cartomizer at the inserted end.

[0012] FIG. 2B illustrates a lateral cross sectional view of the cartomizer of FIG. 2 illustrating the air hole structure.

[0013] FIG. 2C illustrates a front view of an embodiment of a cartomizer in accordance with the disclosure that may be inserted into the cartomizer chamber of an embodiment of a battery portion of the disclosure, the outer shell of the first embodiment battery portion shown transparently so as to illustrate the inner components of the electronic cigarette.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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DETAILED DESCRIPTION

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

[0032] Embodiments of a vaporizer, in accordance with the disclosure, may include a shell having a battery segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery segment and a base end proximate to the battery segment; a cartomizer insertable into the chamber at the insertion end, the cartomizer including: an outer cartomizer shell, a holding structure provided within, and secured to, the outer cartomizer shell, the holding structure including a basin dimensioned to hold a vaporizable substance, a heating element provided within the basin operable to heat the vaporizable substance, cartomizer electrical contacts provided on the exterior of the cartomizer, cartomizer electrical circuitry operable to direct an electronic current between the cartomizer electrical contacts and the heating element, and a mouthpiece fluidly communicable with the basin, the mouthpiece extending from the insertion end of the chamber when the cartomizer is inserted in the chamber, wherein the heating element is activated by the current and is operable to heat the vaporizable substance to a vaporization temperature; a battery housed within the battery segment; battery electrical contacts provided between the base end of the chamber and the battery segment, the battery electrical contacts positioned to contact the cartomizer electrical contacts when the cartomizer is inserted in the chamber; battery electrical circuitry housed within the battery segment and operable to direct an electrical current between the battery, the battery electrical contacts, the cartomizer electrical contacts, the heating element, and the inserted cartomizer.

[0033] Further embodiments of a vaporizer may include a container having container walls provided proximate to the basin, the container dimensioned such that the vaporizable substance

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may pass from the container to the basin. The holding structure may further includes a stabilizing element connectable with the outer cartomizer shell, the basin secured to the stabilizing element. The stabilizing element may includes a first threaded portion threadably connectable with the outer cartomizer shell. The vaporizer may also include a container including container walls and a threaded container portion, the container dimensioned such that the vaporizable substance is passable from the between the container walls to the basin, and the stabilizing element includes a second threaded portion threadably engagble with the threaded container portion. The vaporizer may include at least one air passage provided through at least one hole in the outer shell and at least one hole in the container wall. The vaporizable substance may be a wax. The vaporizer may further include a cartomizer printed circuit board in electronic communication with the cartomizer electrical circuitry.

[0034] With reference now to FIGS. 1 and 2, an embodiment of an electronic cigarette 10 is provided in accordance with the disclosure. Electronic cigarette 10 may include a battery portion connectable with a vaporization unit or cartomizer 200 for holding a vaporizable substance 300. The battery portion may include a battery housing segment 102 provided proximate to the first end 102A of the battery portion, and a second cartomizer receiving segment 104 provided proximate a second end 104A of the battery portion. The battery portion may include an outer shell 106 for covering or protecting one or more of the components of battery portion 100 as may be internally provided as described herein. Outer shell 106 may be substantially constructed from metal, plastic, or any other known or to be developed material suitable for protecting internal components of electronic cigarette 10, including the electrical components described herein. Battery housing segment 102 and cartomizer receiving segment 104 may commonly share outer shell 106. A cartomizer chamber 108 may be provided within at least a portion of cartomizer receiving segment 104. A cartomizer 200 may be insertable into the cartomizer chamber 108 in accordance with embodiments of the disclosure. Shell 106 may cover cartomizer chamber 108 thereby protecting an inserted or received cartomizer 200.

[0035] Electrical components for operating electronic cigarette 10 may be provided within battery housing segment 102. A battery 110 may be provided in order to provide electrical power as may be required by various features of the electronic cigarette 10. In some embodiments, battery 110 may be disposable, such as an AA or AAA cell battery, while in other embodiments, battery 110 may be of a rechargeable type, for example a 13450 lithium ion battery, an 18650

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2600mAh lithium ion cell, or flat lithium ion 903180 cell rated at 2300 mAh. Multiple batteries 110 may be used in series to generate higher voltages capable of shortening times to achieve vaporization temperatures in the cartomizer 200. A printed circuit board (PCB) 112 may also be provided for controlling one or more functions of electronic cigarette 10. PCB 112 may be electrically connected to battery 110 through circuitry in order to direct current flow as required in accordance with the disclosure. PCB 112 may include one or more integrated circuit chips as well as a micro control unit. A boost chip may also be provided in order to amplify voltage with at least portion of circuitry, as may be required in order to accomplish various functions described herein. PCB 112 may include a light emitting diode (LED), a microcontroller, a plurality of capacitors, a plurality of transistors, and a plurality of resistors or any combination thereof. An accelerometer for sensing gravity shifts of electronic cigarette 10 may be further provided. The accelerometer may be operable to detect tilting or changes in orientation of battery portion 100, and PCB 112 may be accordingly operable to react to a shift in orientation detected by the accelerometer. For instance, electronic cigarette 10 including an accelerometer may be activated by shaking or inverting electronic cigarette 10. Any known or to be discovered circuitry or arrangement of the components of PCB 112 are contemplated within the disclosure in order to achieve the desired functions of electronic cigarette 10 as described herein.

[0036] A variety of indicator lights forming one or more illuminative indicators may be provided in embodiments of the disclosure. One such indicator may be a battery end indicator 114 provided as a ring extending about at least a portion of shell 106 at or proximate to first end 102A. In one such embodiment, battery end indicator 114 may be provided at or proximate to first end 102A and includes one or more LED lights having one or more colors. Each color may, for instance, indicate a status of electronic cigarette 10. The status may be associated with the power remaining of battery 110, an activation state of electronic cigarette 10, the heating level of an inserted cartomizer 200, or any other status which may be desirable to communicate to a user of electronic cigarette 10 through a light color. For instance, when electronic cigarette 10 is activated such that a user is either actively inhaling cigarette 10, as described in accordance with disclosure, or cigarette 10 is in a state such that the user could inhale, indicator 114 may be red or reddish. In such an embodiment, battery end indicator 114 could extend about at least a portion of the first end 102A such that when indicator 114 emanates a red or reddish color a user may associate the red color at or proximate to first end 102A with the red glow of a lit cigarette.

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In another embodiment, an indicator ring may be provided to illuminate one or more colors associated with the charge or power state of battery 110. For instance, battery end indicator 114 may illuminate green or blue when the battery is operating with a sufficient charge, and yellow or red when the battery is operating with a low charge such that the user should consider charging battery 110, in accordance with the disclosure. A ring indicator 116 may be provided on or proximate to an activation button 118, which may function to activate cigarette 10 as described herein in accordance with the disclosure. While activation button 118 may be provided on the surface of outer shell 106, and ring indicator 116 may substantially circumference button 118. Ring indicator 116 may include one or more LED lights having one or more colors to indicate various statuses of electronic cigarette 10. Status changes of electronic cigarette 10, such as insertion of cartomizer 200, activation of electronic cigarette 10 by pressing button 118, or deactivation of electronic cigarette 10 by pressing button 118 an additional time may each result in a different associated and predetermined color. The activation of the appropriate LED light or lights may be controlled by PCB 112. In embodiments where button 118 is coplanar or aligned with the surface of outer shell 106, as described herein, ring indicator 116 may also be coplanar or aligned with button 118 and the surface of outer shell 106. Another indicator light may be provided at or proximate to cartomizer end 104A. In one embodiment, in order to transmit a lighting effect from the battery segment 102, where battery 110 and PCB 112 may be housed, to the cartomizer end 104A, one or more LED lights may be provided in the cartomizer receiving segment 104 at or proximate to the battery segment 102. One or more clear tubes or optic fibers may be also be provided within or just below the surface of outer shell 106, with the tubes or fibers terminating at or proximate to the cartomizer end 104A. The resulting effect is an attractive, illuminative effect where the LED lights provided in the cartomizer segment are projected into and transmitted along the fibers. PCB 112 could potentially alternate or change the LED light colors projected into the fibers. The color alternation could be periodic, creating a steady change of colors, or the color alteration could be responsive to a status change of the electronic cigarette 10.

[0037] In order to provide an electrical connection between PCB 112 and an inserted cartomizer 200, an electrical connector 120 may be provided and may include a plurality of pogo pins 120. Pogo pins are devices used to establish connections between two circuits, and each may take the form of a cylinder containing one or more spring-loaded pins 122, each retractable

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upon compression, for instance by cartomizer 200 when it is inserted in cartomizer chamber 108. In one such embodiment, three pogo pins 122 may be provided, one for establishing positive current connection, one for establishing a negative current connection, and one for establishing a ground current connection. Each pogo pin 122 may be connected to PCB 112, which may control current outputted to pogo pins 122. For instance, PCB 112 may operate to vary or intermittently activate current flow to connector 120, the variation thereby regulating the activation of a heating element in a connected cartomizer. When cartomizer 200 is not received in cartomizer chamber 108, a head portion of each pogo pin may extend into cartomizer chamber 108. When cartomizer 200 is received in cartomizer chamber 108, the pins 122 are contacted and at least partially compressed into battery portion 102. Pins 122 may be contacted or pressed against electrical receivers provided on cartomizer 200 as described herein, thereby establishing an electrical connection between PCB 112 and cartomizer 200. Additional pins 122 are contemplated in embodiments of the disclosure, such as a fourth pin for providing an electrical connection to another element, such as the LED lights described above or a temperature sensor 260 described herein and illustrated in FIG. 2.

[0038] An additional embodiment of connector 120 may operate to identify information from an inserted cartomizer 200 based on voltage drop over one or more pins 122. For instance, connector 120 may include a controlling pin 122 from which connected PCB 112 may detect variations in voltage drop across the pin when connected to various types of cartomizers 200. Circuitry provided within a first type of cartomizer 200 may effectuate a first voltage drop over a controlling pin 122, while circuitry provided within a second type of cartomizer 200 may effectuate a second voltage drop over controlling pin 122 when cartomizer 200 is inserted in chamber 108. If PCB 112 detects a first voltage drop, the cartomizer 200 is identified as a first type of cartomizer, whereas if PCB 112 detects a second voltage drop, the cartomizer is identified as second type of cartomizer. A first cartomizer type may hold a first type of vaporizable substance 300, while a second cartomizer type may hold a second type of vaporizable substance 300. In one embodiment, connector 120 includes three pins 122: a positive pin, a ground pin, and a controlling pin. A controlling pin may also serve a dual function in that communication between a sensor 260 may also occur through a controlling pin 122. Other known or to be developed devices or connectors are contemplated within the disclosure for establishing an electrical current between PCB 112 and cartomizer 200.

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[0039] Various features may be further provided in embodiments of electronic cigarette 10 in order to secure and align cartomizer 200 within cartomizer chamber 108. For instance, at least one magnet 124 may be provided in or proximate to chamber 108. A magnet 202 of opposing polarity to magnet 124 may be placed on a surface of cartomizer 200 so as to secure cartomizer 200 within chamber 108 when magnets 124, 202 (see FIGS. 1A, 1B) contact each other. It should be understand and appreciated that, in some embodiments, battery portion magnet(s) 124 may attach to cartomizer metallic surface(s) 202 and, conversely, cartomizer magnet(s) 202 may attach to battery portion metallic surface(s) 124, thereby establishing a magnetic connection between battery portion 100 and cartomizer 200. Other known or to be discovered means of securing cartomizer 200 in cartomizer chamber 108 are contemplated within the disclosure, including but not limited to, snap fit connectors, friction fit, threaded insertion of cartomizer 200 into chamber 108, a suction fit using pressurized means or any other suitable method of securing known or to be developed in the art.

[0040] One or more alignment features or mechanism may be included in order to ensure proper placement of cartomizer 200 in cartomizer chamber 108. In one embodiment, two magnets 124 may be provided proximate to connector 120 (see FIG. 1A), each magnet 124 having an opposed polarity. In this embodiment, two cartomizer magnets 202 (see FIG. 1B) may be provided of opposing polarity at an insertion end 210 of cartomizer 200. Because of the opposing polarities of magnets 124/202, the cartomizer 200 may only be inserted and secured in one direction or orientation, thereby facilitating alignment of cartomizer 200 within chamber 108. An alignment protrusion or peg 126 (see FIG. 1C) may be provided on a portion of an interior surface of chamber 108, and an alignment slit or slot 204 may be provided on a portion of cartomizer 200. Alignment protrusion 126 may be dimensioned to fit or slid along slit 204 so that cartomizer 200 may only be inserted in a particular, proper orientation. In another embodiment, a slit, crevice, or cutout may be provided on a portion of shell 106, with a matching protrusion provided on a portion cartomizer 200. For instance, a cutout may be provided on an upper rim of shell 106 at cartomizer receiving segment 104, while a matching protrusion may be provided on a portion of cartomizer 200 proximate to insertion end 210, with battery portion cutout engageable with the cartomizer protrusion when the cartomizer is properly aligned so as to ensure proper orientation of cartomizer 200 within chamber 108. Ensuring cartomizer 200 is

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properly oriented within chamber 108 in turn ensures proper contacting of cartomizer 200 with connector 120, and therefore proper functioning of electronic cigarette 10.

[0041] One or more windows 130 may be provided in outer shell 106 (see FIG. 1). Windows 130 may be made of a translucent material, such as glass or substantially clear plastic, in order to view internal components of battery portion 100. Window 130 may also be a slit cut into shell 106. For instance, in one embodiment, window 130 may be provided on or proximate to cartomizer receiving segment 104 and, more particularly, cartomizer chamber 108 so as to permit a user of electronic cigarette 10 to view the cartomizer 200 when it is inserted into cartomizer chamber 108.

[0042] One embodiment of cartomizer 200 for holding vaporizable material 300 is cartomizer 200A for holding a vaporizable fluid 300A, an embodiment of which is illustrated in FIG. 1. Vaporizable fluid 300A may be, for example, any known or to be developed fluid useful to vaporize, for inhalation nicotine, flavor or other desired ingredients in an electronic cigarette, such fluids include propylene glycol (PG), vegetable glycerin (VG), or polyethylene glycol 400 (PEG400), as well as their mixtures to which a flavor and/or nicotine has been added. Cartomizer 200A may be substantially elongate and insertable into chamber 108. Chamber 108 is defined by outer shell 106 and electrical connector 120. An insertion end 210 of cartomizer 200A, defined opposite of a mouthpiece end 212, may be inserted into the chamber first and may ultimately contact or be positioned proximate to connector 120 of battery portion 100. Cartomizer 200A may include a body 208 for holding fluid 300A. At least a portion of body 208 may be composed of translucent or substantially translucent material, such as glass or plastic, so that a user may see fluid 300A held within. The portion of body 208 composed of translucent material may be alignable with window 130 and may be proximate to LED lights or fiber optics so as to illuminate cartomizer 200A as it is inserted into chamber 108. The illumination may occur automatically upon insertion, or may be programmed to illuminate upon activation or manipulation of a switch, such as button 118.

[0043] In order to vaporize fluid 300A, a heating element 214 and a wicking element 216 may be provided within cartomizer body 208. An electrical current may be transmitted to heating element 214 through circuitry in electrical communication with electrical contacts, which contact pins 122 (see FIG. 1A) when cartomizer 200A is inserted into chamber 108. Once fluid 300A is

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heated to an optimal vaporizing temperature, the user may inhale the vaporized fluid 300A through a mouthpiece 220 provided on body 208 at or proximate to mouthpiece end 212. The vaporized fluid may travel through an inhalation tube 222 in fluid connection with heating element 214 and wick 216. Inhalation tube 222 may also be in fluid communication with one or more holes or ducts provided, for instance, in sides of outer shell 106 in order to permit air flow through cartomizer body 208. The electrical current transmitted to heating element 214 may be controlled by PCB 112 through connector 120 when cartomizer 200A is inserted into chamber 108. The electronic cigarette 10 may be manually controlled, as a user may press button 118 to initiate a charge to heating element 214, which in turn may heat fluid 300A to a vaporized temperature which a user may inhale through mouthpiece 220. An automatically heating version of electronic cigarette 10 is also contemplated with disclosure, where a pressure switch integrated with connector 120 may activate current flow from PCB to heating element 214 rather than by manual activation from switch 118.

[0044] So that a user may refill fluid 300A held in body 208, mouthpiece 220 may be removable from body 208. Mouthpiece 220 may include a screw thread 224 so that mouthpiece 220 may be threadably engaged with mouthpiece end 212 of body 208 or, alternatively, may be press fit onto or into mouthpiece end 212 of body 208. A bushing 226, which may be a ring formed from plastic, rubber, or any other suitable material, may be provided to help stabilize and retain cartomizer 200 tightly fit in chamber 108. Additionally, a colored ring or logo 228 may be provided about a portion of cartomizer body 208 in order to identify the type or cartomizer being used.

[0045] With reference now to FIGS. 2, 2A and 2B, an additional embodiment of cartomizer 200B is provided for holding a dry vaporizable material 300B, such as dry tobacco. A container 240 may be provided within cartomizer body 208. Container 240 may be made from a material having a high thermal conductivity, such as metal, in order to transmit heat from a heating element 214A provided about at least a portion of container 240. In that at least a portion of heating element 214A may be provided about at least a portion of container 240, the material 300B provided within container 240 may be heated from multiple sides, similar to an oven, as opposed to from a single concentrated heat source. As an electrical current is transmitted to heating element 214A, the interior of container 240 may be heated to a desired vaporizing temperature. Heating element 214A may be substantially comprised of a non-conductive

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material, such as a polyimide flex harness material, with a conductive material, such a copper or other metal wiring shaped into a wire or flat ribbon, dispersed throughout the non-conductive material. The conductive material may be intertwined or wound throughout the non-conductive material in order to increase the heated surface area as well as to increase the impedance of the conductive material, which may then be electrically connected to PCB 112 through connector 120 when cartomizer 200B (See Fig. 2) is inserted in cartomizer chamber 108 (See Fig. 1). The impedance value of the conductive material may be 2-3 ohms in some embodiments, and in other embodiments a maximum of 1 ohm. In some embodiments, heating element 214A may be provided around the majority of cartomizer body 208, and in some embodiments heating element 214A may be provided proximate to only a portion of cartomizer body 208. For instance, heating element 214A may be provided only proximate to insertion end 210, in order to provide a greater portion of heating through convection rather than through conduction. In some embodiment, heating element 214A may be provided about all or the majority of body 208, and PCB 112 may be operable in order to vary the amount of heating provided through convection rather than conduction. For instance, only the portion of heating element 214A proximate to insertion end 210 may be activated in order to heat vaporizable substance 300B through convection, or all or nearly all portions of heating element 214A may be activated in order to increase the conduction heating of substance 300B. PCB 112 may operate to switch between a conduction heating and a convection heating.

[0046] An insulating material 242 may be further provided within body 208 in order to control or regulate the heat distribution. Insulating material 242 may be provided around at least a portion of the exterior of heating element 214A in order to insulate body 208 from excess heat temperature, which may transmit to outer shell 106 (See FIG. 1). Insulating material 242 may also be provided between heating element 214A and container 240 so as to regulate or control heat transmitted to container 240.

[0047] One or more screens 250 may be provided within body 208 in order to contain dry material 300B within container 240, as well as to filter circulated air. Air may be circulated by providing one or more holes 252 in the cartomizer body 208. In one embodiment, holes 252 form a "t" shape (See FIG. 2B) from which the center of the "t" is substantially aligned with a hole leading to container 240. Holes 252 may be capable of alignment with one or more holes on the outer shell 106 of battery portion 100 so that air from the environment may pass through holes

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252 and into container 240 where material 300B is provided. Holes 252 may be provided proximate to the inserted end 210. Screens 250 may be provided either at or proximate to inserted end 210, mouthpiece end 212, or both. In some embodiments, container 240 is removable from the rest of cartomizer body 208. Mouthpiece 220 may be removable or detachable, for instance through a screw thread, so as to permit access to container 240. An upper screen 250 may be attached or manufactured integrally with mouthpiece 220 so as to be removed with mouthpiece 220.

[0048] A sensor 260 may be included in some embodiments of cartomizer 200. Sensor 260 may operate to sense vaporizing temperature, and may be electronically communicative with PCB 112 so as to provide sensory information to PCB 112, which may be consequently transmitted to one of the LED indicators provided in electronic cigarette 10 as described in accordance with the disclosure. For instance, indicator 118 (See FIG. 1) may illuminate a certain color when sensor 260 has detected that vaporization temperature in container 240 has been reached and the user may proceed to inhale vaporized material 300. PCB 112 may also including safety protocols for automatic shutoff in the event that sensor 260 records a temperature above a preset vaporization temperature range, which may indicate material 300 (including, for example, 300A, 300B, 300C) is actively burning or about to burn. Thus, sensor 260 may operate as a thermistor. A vaporization range for many materials 300 may be between about 190 degrees Celsius and about 240 degrees Celsius, and in some embodiments the vaporization temperature may be at about 230 degrees Celsius. In this vaporization temperature range, active ingredients of the vaporization material 300 may begin to vaporize without actively burning, which may occur at about 400 degrees Celsius or higher for some materials. PCB 112 may operate to control the vaporization temperature, for instance regulating a maximum vaporization temperature or controlling the vaporization actual temperature. In one embodiment, PCB 112 may control or regulate vaporization temperature within 10 degree Celsius, and in another embodiment PCB 112 may more finely control or regulate vaporization temperature within 1 degree Celsius, based on a selected or desired vaporization temperature as inputted by a user of electronic cigarette 10. It should be understood and appreciated that communication between sensor 260 and PCB 112 may be bidirectional so that sensor 260 may operate to control at least portions of vaporizer functions or to transmit information to PCB 112 and additionally receive information from PCB 112, which operates to control electronic cigarette 10.

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[0049] Figure 2C illustrates an additional embodiment of cartomizer 200C which may be inserted into cartomizer chamber 108 (FIG. 1) and utilized for vaporization of a vaporizable wax 300C. Cartomizer 200C may include an outer cartomizer shell or body 208 for housing and protecting internal components of cartomizer 200C. Outer shell 208 may include a threadable end 224 provide proximate to insertion end 210, and distal to mouthpiece 220. In one embodiment, mouthpiece 220 may be connected to outer shell 208 while in another embodiment mouthpiece 220 may be removable from outer shell 208, for instance from threading or a friction held push fit. Through threading 224 proximate to insertion end 210, outer shell 208 may be threadably engagable with a holding structure 254, which may be provided for securing a heating element 214 provided within a bowel or basin 214B. As part of holding structure 254, a stabilizing element may be provided 256. In one embodiment, basin 214B is secured to stabilizing element 256. Stabilizing element 256 may be constructed for silicone rubber or any other known or to be discovered material which may be provided to secure basin 214B while embodying the necessary thermal properties for contacting basin 214B. In one embodiment, basin 214B is composed of ceramic. Proximate to basin 214B may be a wax container 240A, and a screen or mesh 250 may be provided between basin 214B and container 240A. Container 240A may include a threaded portion 224 for removable engaging with holding structure 254. In this regard, holding structure 254 may feature two threadings 224 – a first threading for engagement with outer shell 208 and a second threading for engagement with container 240A. A container cover 244 may be further provided and may include cover walls which substantially surround the upper and open portion of container 240 opposite heating element 214 and basin 214B. In one embodiment, cover 244 is secured to a portion of mouthpiece 220 such that when outer cover 208 is removed along with mouthpiece 220, cover 244 is further removed thereby exposing container 240A so that it may be refilled with additional wax 300C. Airflow passage 222 may be provided as a first passage within the wall of container cover 244, a second passage within the wall of outer shell 208, and an tube leading through mouthpiece 220. Multiple first passages and multiple second passages may be provided as described. In order to discourage back flow of vapor, the one or more first passages may be placed closer to mouthpiece 220 than the one or more second passages. In this arrangement, vaporized wax 300C may travel from heating element 214 through container 240A and the first passage within the wall of cover 244, through a circumferentially outer passage between cover 244 and outer shell 208, and out through

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mouthpiece 220 as a user inhales. Electrical wiring may be provided from heating element 214 to a cartomizer PCB 262, which may operate to control the functioning of the cartomizer including activation of heater 214. In association with PCB 262 may be electrical contacts 218 for permitting electrical communication with battery portion 100.

[0050] As shown in Figure 3, a charger 400 may be inserted into chamber 108 (FIG. 1) in order to charge battery 110 (FIG.1) in embodiments where battery 110 may be rechargeable. Through its insertion into chamber 108 and contact with connector 120, charger 400 may provide an electrical charge to battery 110. Charger 400 may include a plug 410 for connecting charger 400 to a power source, which in one embodiment is a wall socket. Other plugs 410 for different power sources are contemplated within the disclosure, including USB connections and other known or to be developed power sources. An indicator light 420, which may be an LED light, may be provided on charger 400 in order to indicate a charging status, for instance when charger 400 is connected with a power source. PCB 112 may operate to change other indicators, for instance LED indicators 114/116, to indicate the charging status of electronic cigarette 10. In accordance with the disclosure, and illustrated for instance in Figure 9, charger 400 may be connectable to battery portion at or proximate to first end 102A. Furthermore, as also illustrated for instance in Figure 9, charger magnets 404 are contemplated within the disclosure in order to securely couple charger 400 to battery portion 100. In one embodiment, a metallic surface 404 is provided and positioned so as to be adjacent to magnets 124 or magnets 162 (depending on the embodiment of the disclosure). In another embodiment, a metallic surface 124 or 162 in order to magnetically couple battery portion 100 with charger magnets 404. Additionally, charger magnets 404 may be provided having opposing polarities as battery portion magnets 124 or 162.

[0051] With regards to PCB 112, as previously discussed for instance in reference to FIG. 1, and related electrical components, functioning, and control of vaporizer 100, a variety of controls or commands are contemplated in associated with the operation of vaporizer 100. Various LED indicators 114, 116 may be utilized in conjunction with PCB 110 in showing operation states or statuses of vaporizer 100. For instance, the pressing of button 118 a preset number of times, which may be 3 times, within a preset time period, which may be 2 seconds, may result in locking or unlocking the vaporizer. Ring indicator 116 may then change illuminated colors to indicate a lock state of vaporizer 100. In a lock state, vaporizer may not function to activate a heating element 214/214A/214B of an inserted cartomizer 200. A low battery voltage may also

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be indicated to a user by illuminating and possibly flashing a predetermined color through indicator 116. In one embodiment, a low battery state is indicated when the battery voltage of battery 110 falls below about 3.2V. Activation of heating element 214/214A/214B may be accomplished by pressing or holding button 118. A cutoff feature may programmed into either PCB 112 or cartomizer PCB 262 such that heating element 118 will be disabled if button 118 is actuated for longer than a preset time, which may be 10 seconds in one embodiment and 30 seconds in another embodiment. While button 118 is actuated, and accordingly heating element 214 of an inserted cartomizer 200 is activated, indicator 116 may illuminate a predetermined color. Additionally, PCB 112 may operate to detect the type of inserted cartomizer 200, namely what type of vaporizable substance 300 the inserted cartomizer 200 is designed to hold and vaporize, and accordingly ring indicator 116 may illuminate a preset color associated with the inserted cartomizer 200 type. For instance, ring indicator may illuminate in a white, red, and green color when a first, second, and third cartomizer type is inserted, respectively. For some vaporizable substances 300, particularly many varieties of dry tobacco 300B, heating element may need to heat the substance for a certain time period before the substance is vaporized and may be inhaled by the user. In this situation, button 118 may be held for a certain time, which may be 3 seconds, before ring indicator illuminates indicating the user may inhale the vaporized substance. Furthermore, in the event an error in the PCB 112 programming occurs, a reset feature may be incorporated. For instance, pressing and holding button 118 for a certain time period, which may be three (3) seconds, while no cartomizer is inserted may operate to reset the programming to a default programming.

[0052] Figures 4-7 further illustrate the embodiments of electronic cigarette 10 provided in Figures 1-3, in accordance with the disclosure.

[0053] Figures 8 and 9 illustrate an additional embodiment of an electronic cigarette 10 having a battery portion 100A for receiving a cartomizer such as cartomizer 200 or cartomizer 200B. PCB 112 may operate to perform a variety of functions including, such vaporization temperature control or regulation, voltage boost, accelerometer, or various drivers for controlling LED functioning. One or more LED indicators 114 may be provided and, in one embodiment, a set of three LED lights of variable colors are provided proximate to battery end 102A of the battery portion 100A. Magnets 124/202 may be provided in order to retain cartomizer 200 within

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cartomizer chamber 108. A switch 118A may be provided in order to manually activate or otherwise control electronic cigarette 10.

[0054] A battery charger 400A, having charging contacts 402, may be attached or connected to charging contacts 160 provided on outer shell 106, or otherwise exposable to the environment. In one embodiment, charging contacts 160 are positioned at or proximate to battery end 102A. Charging contacts 160, 402 may include a first positive contact and a second negative contact. In order to secure charging contacts 160 against corresponding charging contacts 402 of charger 400A, one or more magnets 162 may be provided proximate to charging contacts 160. Magnets 162 may then be capable of engaging with charger magnets 404 provided on portion of charger 400A such that magnets 162, 404 are adjacent to each other when contacts 160, 402 are contacting one another. In order to ensure the proper alignment of contacts 160, 402, two magnets 162 may be provided with opposed polarities, and two charger magnets 404 may be provided with opposed polarities. These opposed polarities may ensure proper orientation of charger 400A when it is connected to battery portion 100A. In some embodiments, battery portion magnet(s) 162 may operate to magnetically attract and connect a metallic charger surface 404, or charger magnets 404 may operate to magnetically attract and connect a metallic battery surface 162, each of these embodiments thereby operating to magnetically couple charger 400 with battery portion 100. An indicator light 420, which may be an LED, may be provided to indicate a charging status of battery 110. A charging extension 410 may be provided so as to connect charger 400A to a power source or, alternatively, a power source may be internally provided within charger 400A. Charging extension 410 may be an AC wall adapter to USB and USB cord to magnetic plug. Any charger 400 of the disclosure may contain OverVoltage and OverCurrent protection in order to prevent over charging of battery 110 thereby assuring long battery life and in order to reduce the likelihood of battery 110 overheating. In one embodiment, charger 400 is rated at approximately 1000mA current, which for some embodiments will equate to approximately two hours of battery life. The battery life will vary depending on battery selection and number of batteries 110 used in a given embodiment.

[0055] Referring now to FIG. 10, an embodiment for a cartomizer 200C is provided for holding a vaporizable substance 300. Cartomizer 200C may be used as an alternative cartomizer to 200/200B cartomizers, for example. Vaporizable substance 300 in cartomizer 200C may be a wax, oil or gel 300C. In cartomizer 200C, heating element 214 may be provided at the base of a

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basin 214B, which may or may not be removable from cartomizer body 208. Basin 214B may be dimensioned to hold wax, oil or gel 300C while heating element 214 may elevate the temperature within basin 214B to a vaporization temperature range, as controlled by PCB 112. Once the wax, oil or gel 300C is vaporized, a user may inhale the vapor through an inhalation tube 222 and out through mouthpiece 220. In some embodiments, mouthpiece 220 is removable through a friction fit, threaded connection, or any other known or to be developed connection means. One or more O-ring seals may also be provided proximate to the mouthpiece to ensure a fluid tight connection between mouthpiece 220 and cartomizer body 208.

[0056] FIG. 11 shows an additional embodiment of a cartomizer 200D for holding a dry vaporizable substance 300B. Cartomizer 200D may be used as an alternative cartomizer to 200/200B cartomizers, for example. Dry substance 300B may be held in a removable liner or container 240. Cartomizer 200D may also include heating element 214A and insulation material 242, each of which may be similarly provided and oriented as previously described with respect to cartomizer 200B. An air flow hole or aperture 270 may be provided at the base of cartomizer 200D. This airflow hole 270 may be provided off plane or misaligned with respect to electrical contacts 218. Airflow hole 270 may align with a hole between chamber 108 and battery portion 100A, which may house a fan 190 as described below. A temperature sensor 260 may also be included.

[0057] FIG. 12 further illustrates the embodiments of an electronic cigarette 10 provided in FIGS. 9-11 in accordance with the disclosure.

[0058] Referring now to FIG. 13, an embodiment of an electronic cigarette 10 including a battery portion 100B is provided. PCB 112 may include a microcontroller, voltage boost integrated circuit, accelerometer, and a Fan control circuitry. A fan 190, including blades and a motor, may be provided internally in battery segment 110 of battery portion 100B. Fan 190 may operate to facilitate air flow from external battery portion 100B, such as through one or more holes 152 provided in outer shell 106, through battery segment 110 and into cartomizer thereby establishing an air flow for inhalation in accordance with the disclosure. In some embodiments, fan 190 has a reversible operation in order to "clear" the air flow path in the event debris or excess vapor is caught in the air flow path. PCB 112 may also include one or more switches that, for instance, may be provided beneath control buttons, such as that exemplified in Fig. 15). PCB

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112 may also include one or more LED's for these and other similar switch lights. PCB 112 may also operate to display a status message on an LED screen, which may be provided on outer shell 106 (e.g., as shown in Fig. 15). A status message may, for example, include messages to indicate a status of the electronic cigarette 10, such as when the cigarette 10 is activated, charging, or has reached a vaporization temperature. An LED screen may also display warning or error messages, for instance a danger message when a critical temperature has been detected by a sensor. Further, as illustrated in FIG. 14. In some embodiments, PCB 112 may operate to recognize the cartomizer 200/200A/200B/200C inserted into chamber 108, and in order to identify the vaporizable substance 300 included in cartomizer 200. For instance, PCB 112 may communicate with sensor 260 in cartomizer 200 in order to identify both the type and amount of vaporizable substance 300 within cartomizer 200. This identification may be included in the status message displayable on the LED screen on outer shell 106. Charger 400A may be utilized for charging battery 110 in battery portion 100C. It should be understood and appreciated that, in some embodiments, charger 400A may be inserted into chamber 108 of battery portions 100A/100B in addition to connection of charger 400A as described herein. It should be further understood and appreciated that in embodiments where charger 400/400A is coupled with battery portion 100 at a position other than where cartomizer 200 is connected, such as embodiments where charger 400A is coupled at or proximate to first end 102A, electronic cigarette 10 may operate with a pass through function, namely the ability to operate electronic cigarette 10 while the unit is charging from charger 400A.

[0059] FIG. 15 further illustrates the embodiments of an electronic cigarette 10 provided in FIGS. 13-14 in accordance with the disclosure.

[0060] Certain charger embodiments for rechargeable vaporizers or electronic cigarettes disclosed hereinabove, for example in Figure 3, employ electrical contacts between the charger and the cartomizer portion's electrical connector. Under these circumstances, the cartomizer portion is first removed from the chamber to expose the electrical connector and thereafter a charger with compatible electrical contacts is inserted into the chamber. The invention contemplates other types and locations of connectors on the vaporizer and charger. Accordingly, in certain embodiments, the present invention provides a charger 400 for charging a vaporizer or electronic cigarette having charging contacts attached essentially transversely to its outer shell at an end distal to the cartomizer receiving portion and proximate to its battery portion. One such

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embodiment is shown in FIG. 14. In some of these embodiments where the cartomizer portion is not removed from the vaporizer to expose the electrical connector, the charging contacts are incorporated into the device such that the vaporizer or electronic cigarette may be operated in its typical fashion during the recharging of the battery ("pass-through" charging).

[0061] Still other embodiments for chargers and rechargeable vaporizers or electronic cigarettes are illustrated in FIGS. 16, 17, 18, 19, and 20. For example, FIG. 16 depicts aspects of the portion of the charger that connects with the vaporizer during the charging operation. In this example, the positive connection to the vaporizer's charging contacts is facilitated through the use of a spring-loaded pogo pin (see 501 and 502). The negative connection pin (503) or other negative connection is isolated from the pogo pin by an insulator 506 to isolate the positive and negative connections from each other. At the contacts insulator surface such that it is isolated from electrical connections 501 and 503 is a wiper contact that is capable of powering a LED charging indicator light. In some instances the exterior housing 504 for the charger is at least in part, translucent or transparent, so that the indicator lamp can be readily observed. To maintain readily removable connectivity with the vaporizer, a magnet 505 is provided, and is typically in proximity to the outer edges of the charger's charging contacts and optionally takes the form of a ring disposed in substantially concentric fashion about the assembly containing the electrical contacts and insulation. The charger is generally held in the correct position for charging by magnetic attraction to the vaporizer's charging contacts. The magnetic attraction strength is such that the charger can be easily detached by just pulling on the charger. This level of attractive force may also allow the charger to break away if it is pulled too far away from the battery portion of the vaporizer so that no significant damage will occur to the vaporizer or the charger. Other aspects of the charger include one or more of support pieces and/or fixing screws, for example. The materials employed in the construction of the charger would be readily understood by the ordinarily skilled artisan once equipped with the teachings of the present invention. Any material that conducts electricity will generally be acceptable where transfer of electricity to charge the battery is required. Similarly, where insulation is a necessary property for normal operation, electrically non-conductive materials are typically acceptable. Fig. 17 illustrating a perspective drawing of a charger that employs a USB terminus connection 507 as a source of power for the charging operation. At the end distal to the USB terminus are the charger's

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charging contacts for the vaporizer or electronic cigarette, including a pogo pin-type positive connection 501, an insulator 506, a negative connection 503, a magnet 505 and a housing 504.

[0062] FIG. 18 shows an alternate end on view of a charger's electrical contacts region, depicting a housing 504, magnet 505, negative connection 503, wiper contact 508 for an optional LED-type charging indicator light disposed on the housing , pogo pin-type positive connection 501, and insulator 506.

[0063] FIG. 19 illustrates a partial longitudinal cross section view of an embodiment of the vaporizer's electrical connector attached essentially transversely to its outer shell 512 at an end distal to the cartomizer receiving portion and proximate to its battery portion, which may be contacted with the chargers contacts illustrated in Fig. 18. Fig. 19 shows an arrangement of components for an embodiment of present invention's electrical connector including a positive contact 509, negative contact 510, and insulation 511.

[0064] An alternative vaporizer electrical connector compatible with the charger shown in Fig. 18 is shown in FIG. 20 in an end on view. In this view, the positive contact 509 forms an innermost circle, surrounded by concentric circles of independently varying dimensions including an insulator 511, a negative contact 510, a magnet 513 and outer shell 512. In certain embodiments 513 may be a magnet or a magnetic material. In embodiments where 513 is a magnetic material, it is preferably magnetic metal, more preferably a ferromagnetic metal. The magnetic attraction between 513 and the magnet in the charger contacts is strong enough to hold the charger contacts and vaporizer charging contacts sufficiently so that the battery may be recharged. In certain preferred embodiments, the attraction is sufficiently strong to maintain the charger/vaporizer connection, but weak enough to be disconnected without substantial damage to the charger or the vaporizer.

[0065] FIG. 21 shows a perspective side on view of the FIG. 18 charger's electrical contacts region depicting a housing (504), magnet (505), negative connection (503), wiper contact (508), pogo pin-type positive connection (501), and insulator (506).

[0066] FIG. 22 shows the charger of FIG. 18 connected for recharging to the electrical connector of the vaporizer compatible with the charger shown in FIG. 20.

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[0067] Vaporizer or electronic cigarette charger kits useful in, for example, the recharging of batteries used to power the vaporization process in such devices, are also within the ambit of the present invention. These kits typically include one or more chargers of the present invention, or alternatively a charger with multiple interchangeable power connectors (e.g., wall plug and USB connector). Such kits may further include, if desired, one or more of various compatible vaporizers or electronic cigarettes, their components, such as for example, one or more interchangeable cartomizers, cartomizer refills, etc., as will be readily apparent to those skilled in the art. Instructions, either as inserts or as labels, indicating quantities of the components contained in the kit, guidelines for operation or use, and/or guidelines for connecting any of the components and/or refilling the cartomizers, may also be included in the kit.

[0068] In accordance with certain embodiments of the present invention, there are provided methods which comprise contacting a charger of the present invention with a compatible vaporizer or electronic cigarette for a time and under conditions effective to recharge a rechargeable battery contained within said vaporizer or electronic cigarette sufficient to repower vaporizer or electronic cigarette for its continued use.

[0069] As will be understood by the ordinarily skilled artisan equipped with the disclosure herein, electrical contacts compatible with the charger must be provided for on or within the vaporizer or electronic cigarette.

[0070] The descriptions set forth above are meant to be illustrative and not limiting, and persons of skill in the art will recognize that various common and known deviations from the above described structures are considered to be within the scope of the disclosed concepts described herein.

[0071] The invention illustratively disclosed herein suitably may be practiced in the absence of any element which is not specifically disclosed herein. The invention illustratively disclosed herein suitably may also be practiced in the absence of any element which is not specifically disclosed herein and that does not materially affect the basic and novel characteristics of the claimed invention.

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LIST OF REFERENCES

10	Electronic Cigarette
100	Battery Portion
100A	Battery Portion
100B	Battery Portion
102	Battery Housing Segment
102A	First end of Battery Portion
104	Cartomizer Receiving Segment
104A	Second end of Battery Portion
106	Shell
108	Cartomizer Chamber
110	Battery
112	PCB
112A	PCB
114	Indicator
116	Ring Indicator
118	Button
118A	Switch
120	Electrical Connector
122	Pin
124	Magnet
126	Protrusion
130	Window
152	Hole

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160	Charging Contact
162	Magnet
190	Fan
200	Cartomizer
200A	Cartomizer
200B	Cartomizer
200C	Cartomizer
202	Magnet
204	Groove
208	Body
210	Insertion End
212	Mouthpiece End
214	Heating Element
214A	Heating Element
214B	Basin
216	Wick
218	Electrical Contact
220	Mouthpiece
222	Inhalation Tube
224	Threading
226	Bushing
228	Colored Ring
240	Container
242	Insulating Material

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250	Screen
252	Hole
260	Sensor
262	Cartomizer PCB
300	Vaporizable Substance
300A	Vaporizable Fluid
300B	Vaporizable Dry Substance
300C	Vaporizable Wax
400	Charger
400A	Charger
402	Electrical Contact
404	Magnet
410	Plug
420	Light
501	pogo pin
502	spring
503	negative connection pin
504	exterior housing
505	magnet
506	insulator
507	USB terminus connection
508	wiper contact
509	positive contact
510	negative contact

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511 insulation

512 outer shell

513 magnet or magnetic metal

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Claims

1. A vaporizer comprising:

a shell having a battery segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery segment and a base end proximate to the battery segment;

a cartomizer insertable into the chamber at the insertion end, the cartomizer including:

an outer cartomizer shell,

a holding structure provided within, and secured to, the outer cartomizer shell, the holding structure including a basin dimensioned to hold a vaporizable substance,

a heating element provided within the basin operable to heat the vaporizable substance, wherein

the heating element is comprised of a flexible non-conductive material, and a flexible conductive material wherein the conductive material is intertwined or wound throughout the non-conductive material.

2. The vaporizer of claim 1, wherein the flexible conductive material has an impedance value of 1 to 3 ohms.

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Abstract

An electronic cigarette or vaporizer may include a shell and a cartomizer receivable within a chamber within a portion of the shell. A basin may be included in the cartomizer to hold a vaporizable fluid, dry substance, or other vaporizable substance such as a wax. A heating element may be provided within the basin which may have a flexible non-conductive material and a flexible conductive material.

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PTO/AIA/15 (10-17)
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UTILITY PATENT APPLICATION TRANSMITTAL

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

Attorney Docket No.	15927-301
First Named Inventor	
Title	Vaporizer
Priority Mail Express® Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. [✓] **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. [ ] **Applicant asserts small entity status.** See 37 CFR 1.27
3. [ ] **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. [✓] **Specification** [*Total Pages* 29] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. [✓] **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 19]
6. **Inventor's Oath or Declaration** [*Total Pages* 48] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. [ ] Newly executed (original or copy)
   b. [✓] A copy from a prior application (37 CFR 1.63(d))
7. [✓] **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   [ ] Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. [ ] Computer Readable Form (CRF)
   b. [ ] Specification Sequence Listing on:
      i. [ ] CD-ROM or CD-R (2 copies); or
      ii. [ ] Paper
   c. [ ] Statements verifying identity of above copies

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ACCOMPANYING APPLICATION PAPERS

10. [ ] **Assignment Papers** (cover sheet & document(s))
    Name of Assignee _____
11. [ ] **37 CFR 3.73(c) Statement** (*when there is an assignee*) [ ] **Power of Attorney**
12. [ ] **English Translation Document** (*if applicable*)
13. [ ] **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    [ ] Copies of citations attached
14. [ ] **Preliminary Amendment**
15. [ ] **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. [ ] **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. [ ] **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. [ ] **Other:** _____

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

19. CORRESPONDENCE ADDRESS

[✓] The address associated with Customer Number: 156465 **OR** [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	/ Curtis R. Droege /	Date	8/31/2018
Name (Print/Type)	Curtis Droege	Registration No. (Attorney/Agent)	52,833

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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

PTO/AIA/01 (09-12)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	VAPORIZER

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/539,801

filed on November 12, 2014.

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

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

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

WARNING:

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

LEGAL NAME OF INVENTOR

Inventor: Jan Andries Verleur Date (Optional): _____

Signature: _____

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. This 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.

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

Title of Invention	VAPORIZER

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/539,801 filed on November 12, 2014.

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

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

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

WARNING:

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

LEGAL NAME OF INVENTOR

Inventor: Dan Recio Date (Optional):

Signature:

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

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LEGAL NAME OF INVENTOR

Inventor: Yifeng Lu Date (Optional): 11/18/2014

Signature: _____

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

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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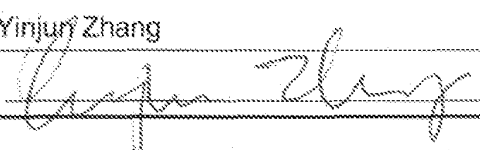
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LEGAL NAME OF INVENTOR

Inventor: Yinjun Zhang Date (Optional): _____

Signature: 

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LEGAL NAME OF INVENTOR

Inventor: Arturo Fajardo Date (Optional): _____

Signature: _____

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NJOY Exhibit 1007.037

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LEGAL NAME OF INVENTOR

Inventor: Hans Verleur Date (Optional): 11/18/14

Signature: Hans Verleur

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1597-301
	Application Number	
Title of Invention	Vaporizer	

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

Secrecy Order 37 CFR 5.2:

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

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jan	Andries	Verleur	

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

City	Miami Beach	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

Address 1	6103 Aqua Avenue, #1002		
Address 2			
City	Miami Beach	State/Province	FL
Postal Code	33141	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Dan		Recio	

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

City	Miami	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

Address 1	3050 Biscayne Blvd.		
Address 2	8th Floor		
City	Miami	State/Province	FL
Postal Code	33137	Country	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Yifeng		Lu	

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

PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1597-301
	Application Number	
Title of Invention	Vaporizer	

City	Miami	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

Address 1	3050 Biscayne Blvd.		
Address 2	8th Floor		
City	Miami	State/Province	FL
Postal Code	33137	Country	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Yinjun		Zhang	

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

City	Miami	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

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Address 2	8th Floor		
City	Miami	State/Province	FL
Postal Code	33137	Country	US

Inventor 5 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Arturo		Fajardo	

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

City	Miami	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

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Address 2	8th Floor		
City	Miami	State/Province	FL
Postal Code	33137	Country	US

Inventor 6 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Hans		Verleur	

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

City	El Dorado	State/Province	CA	Country of Residence	US

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1597-301
	Application Number	
Title of Invention	Vaporizer	

Mailing Address of Inventor:

Address 1	4520 Steins Way		
Address 2			
City	El Dorado	**State/Province**	CA
Postal Code	95623	**Country** i	US

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

Correspondence Information:

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

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

Customer Number	156465		
Email Address	patent@hillyerlegal.com	Add Email	Remove Email

Application Information:

Title of the Invention	Vaporizer		
Attorney Docket Number	1597-301	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	19	**Suggested Figure for Publication (if any)**	1

Filing By Reference:

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

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

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

Publication Information:

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

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1597-301
	Application Number	
Title of Invention	Vaporizer	

Representative Information:

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

Please Select One:	● Customer Number	US Patent Practitioner	◯ Limited Recognition (37 CFR 11.9)
Customer Number	156465		

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	14/539801	2014-11-12
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	62/015148	2014-06-20
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	61/937851	2014-02-10
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	61/903344	2013-11-12

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

Foreign Priority Information:

PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1597-301
	Application Number	
Title of Invention	Vaporizer	

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

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

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

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

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1597-301
	Application Number	
Title of Invention	Vaporizer	

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

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

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

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

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1597-301
	Application Number	
Title of Invention	Vaporizer	

Applicant Information:

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

Applicant 1 — Remove

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

Clear

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

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

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	VMR Products, LLC		
Mailing Address Information For Applicant:			
Address 1	3050 Biscayne Blvd.		
Address 2	8th Floor		
City	Miami	**State/Province**	KY
Country	US	Postal Code	33137
Phone Number		Fax Number	
Email Address			

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

Assignee Information including Non-Applicant Assignee Information:

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

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Approved for use through 04/30/2017. OMB 0651-0032
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1597-301
	Application Number	
Title of Invention	Vaporizer	

Assignee 1

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

Remove

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

Organization Name	VMR Products, LLC

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1	3050 Biscayne Blvd.		
Address 2	8th Floor		
City	Miami	**State/Province**	FL
Country i	US	Postal Code	33137
Phone Number		Fax Number	
Email Address			

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

Signature:

Remove

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

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

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

Signature	/ Curtis Ray Droege /			Date (YYYY-MM-DD)	2018-08-31
First Name	Curtis	Last Name	Droege	Registration Number	52833

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

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1597-301
	Application Number	
Title of Invention	Vaporizer	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

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

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

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

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

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

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

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

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

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

NJOY Exhibit 1007.047

Electronic Acknowledgement Receipt

EFS ID:	33604148
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	156465
Filer:	Curtis Ray Droege/Kimberly Kepple
Filer Authorized By:	Curtis Ray Droege
Attorney Docket Number:	15927-301
Receipt Date:	31-AUG-2018
Filing Date:	
Time Stamp:	15:23:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	15927-301_ADS.pdf	1823589 2bb8add489159b5063178805c79f4cdccd214596	no	10

Warnings:

Information:					
2	Drawings-only black and white line drawings	15927-301_DWGS.PDF	10902023 1a5dd21812808427f6e68b5539aca3acf526a5d4	no	19
Warnings:					
Information:					
3	Oath or Declaration filed	15927-301_OATH_OLD.pdf	694857 4f5bf3f5f06364b3844f6421583478ed297a34b	no	6
Warnings:					
Information:					
4	Transmittal of New Application	15927-301_TRANS.pdf	280100 df85acb510a01d04656ea3d3ea7b6d06e8a5963d	no	2
Warnings:					
Information:					
5	Specification	15927-301_SPEC.pdf	208980 678aad5cfd6a86d7f359d857146eaf2ce2d36b52	no	29
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	35039 ff1626a81cb69a39cee2c1c70edf4559db368598	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	13944588		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Fig. 1

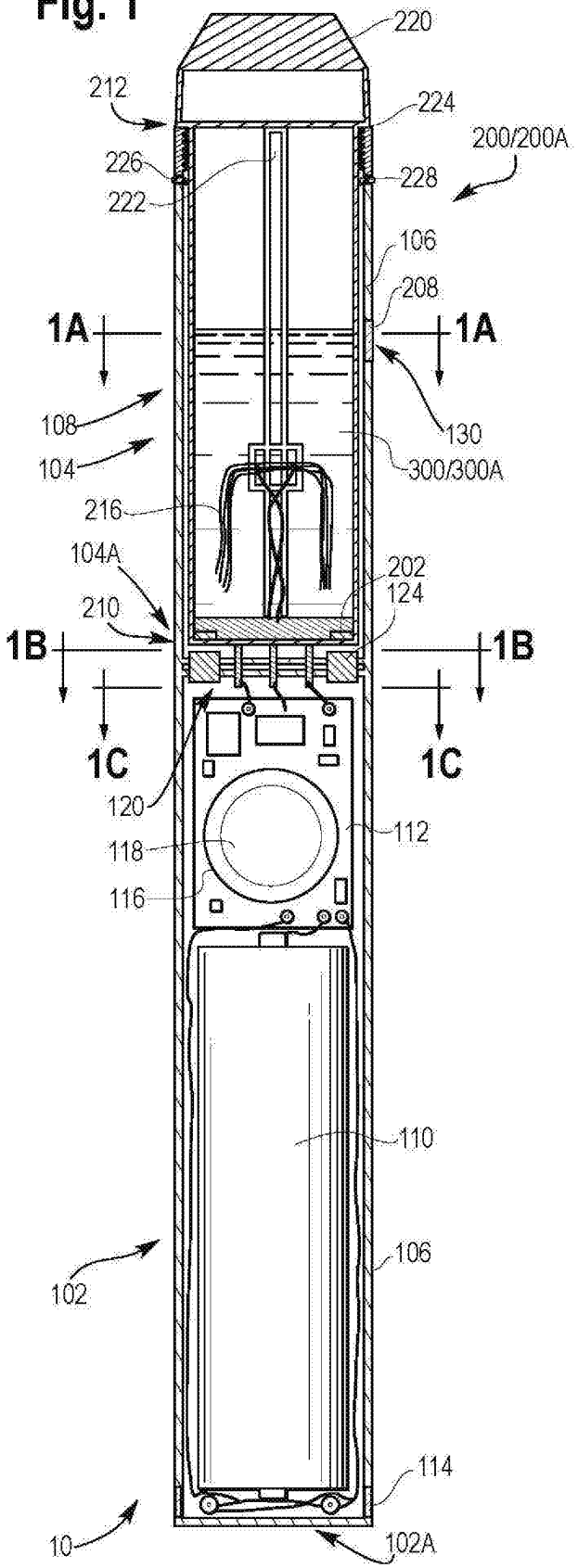


Fig. 1A

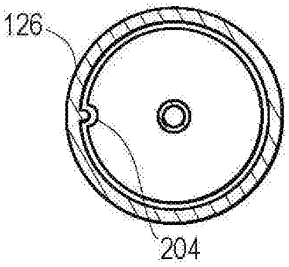


Fig. 1B

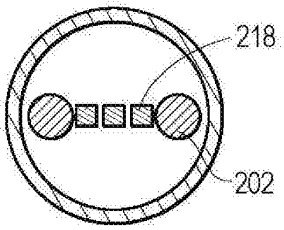


Fig. 1C

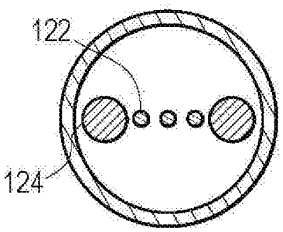


Fig. 2

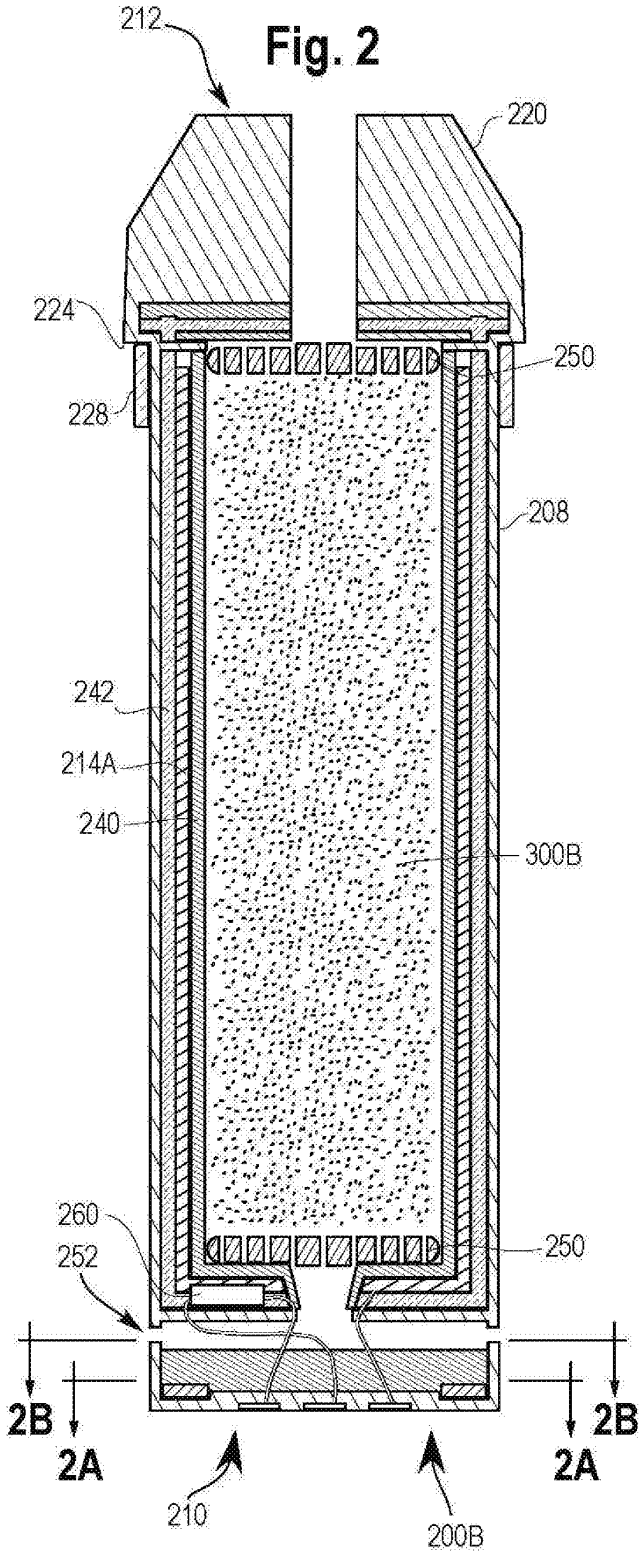


Fig. 2A

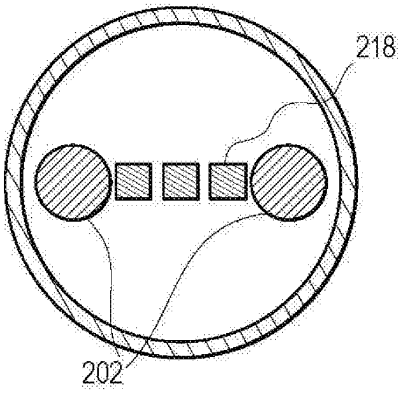


Fig. 2B

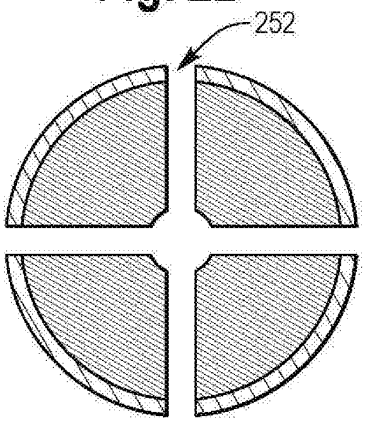


FIG. 2C

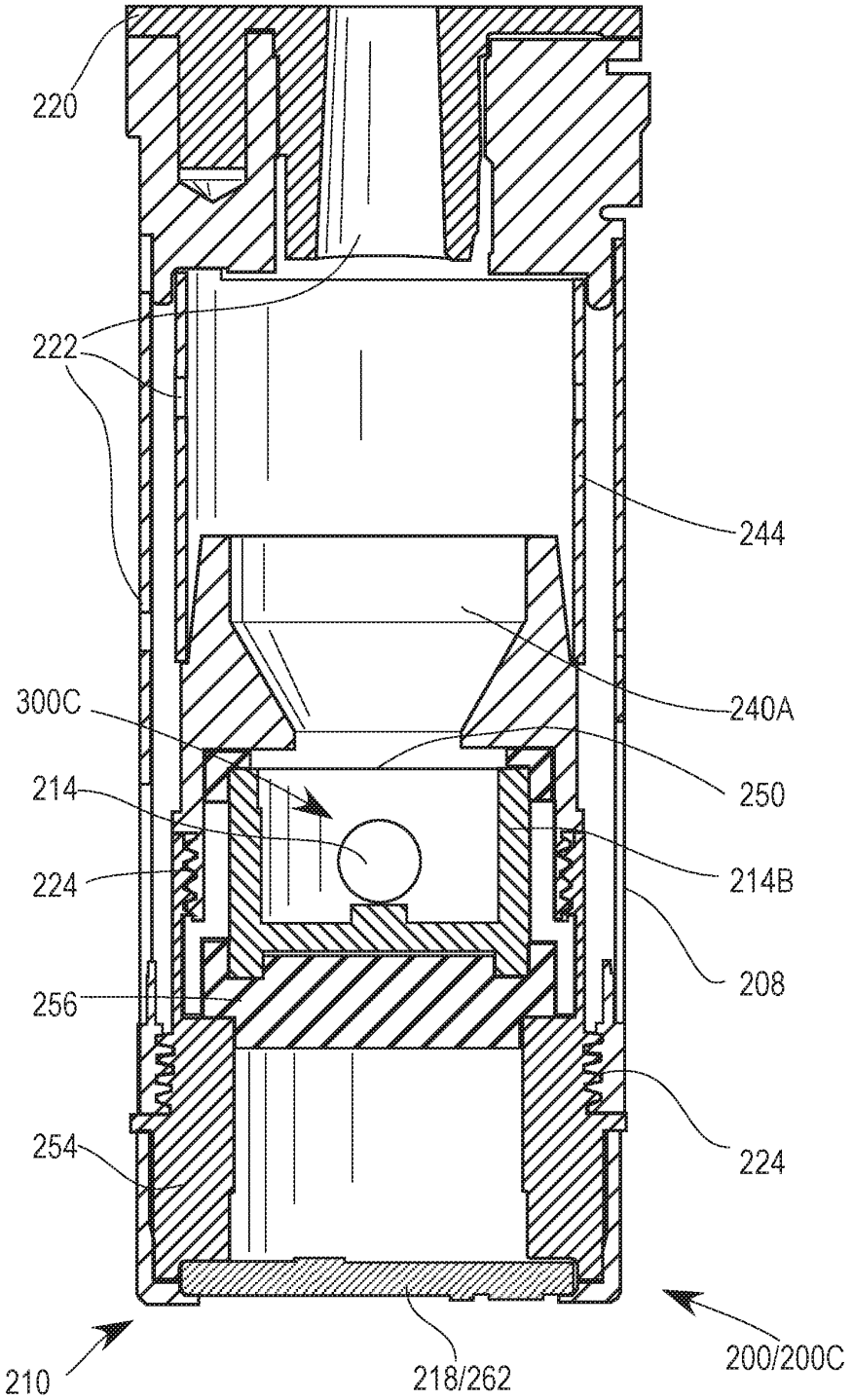

220
222
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300C
240A
250
214
214B
224
208
256
254
224
210
218/262
200/200C

Fig. 3

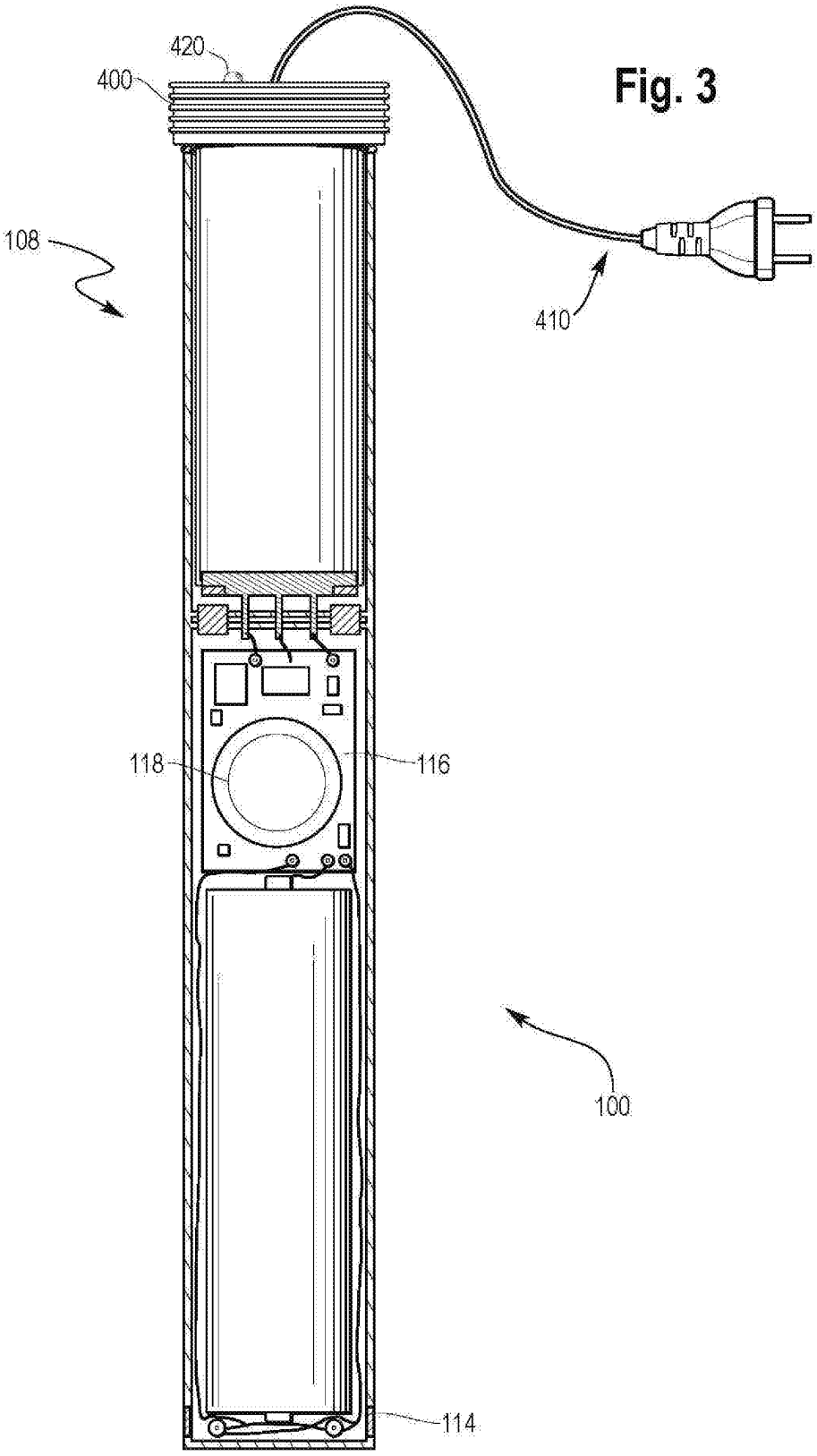


Fig. 4

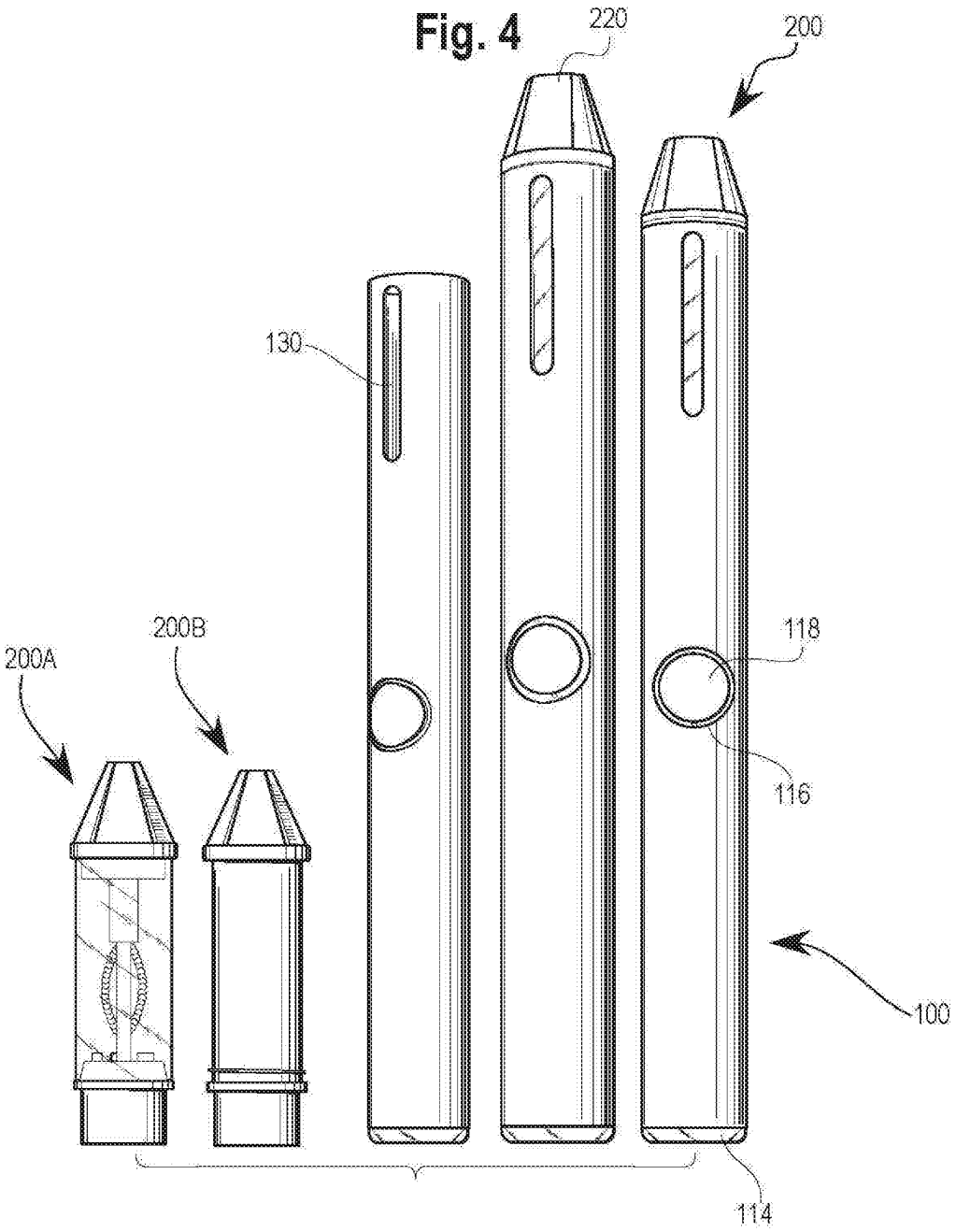


Fig. 5

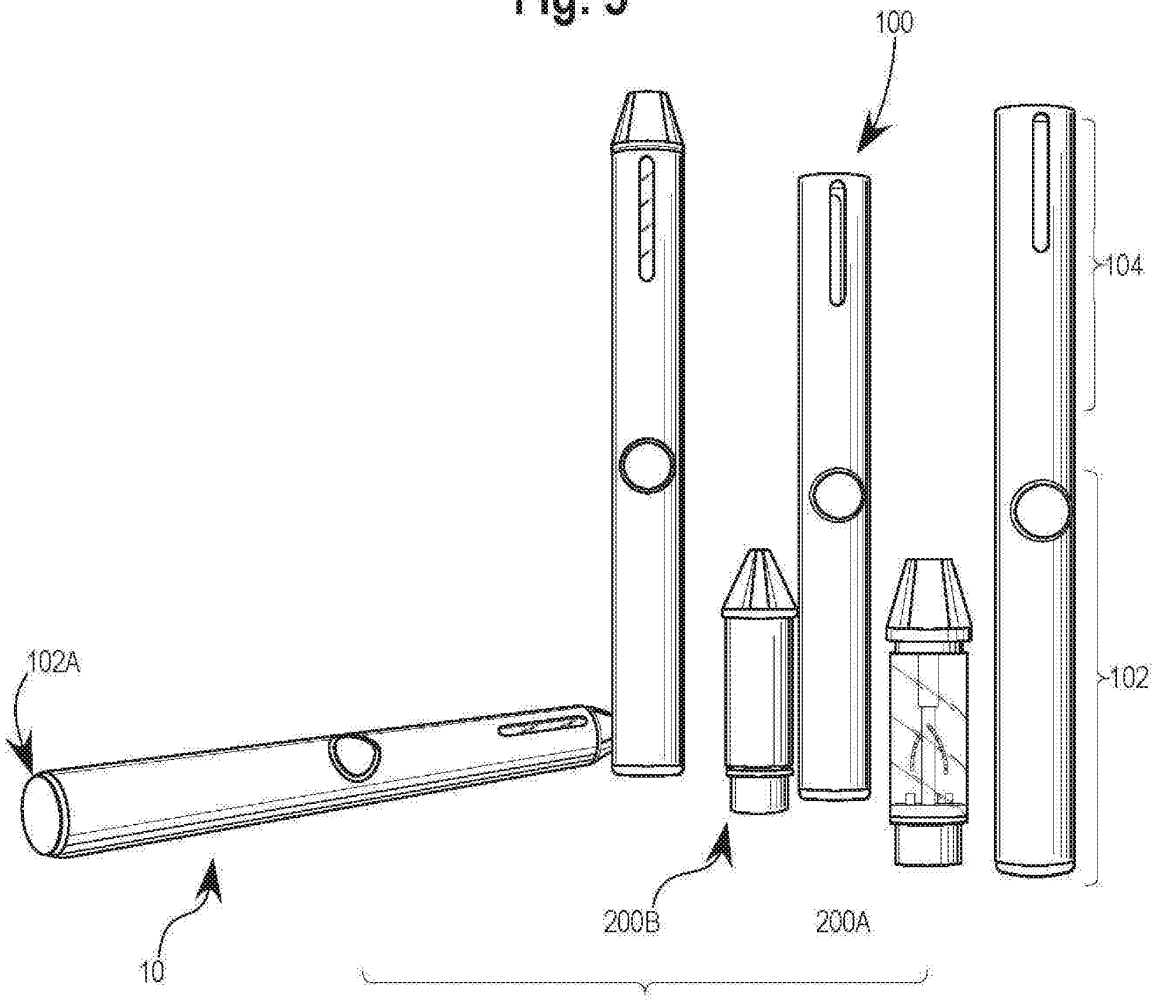


Fig. 6

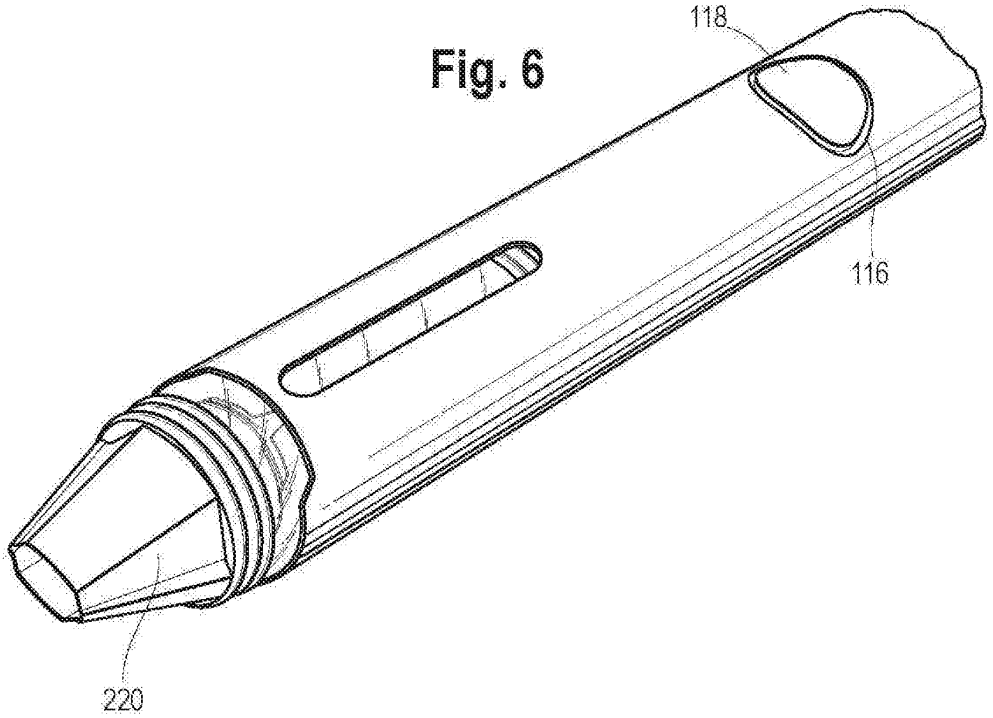


Fig. 7

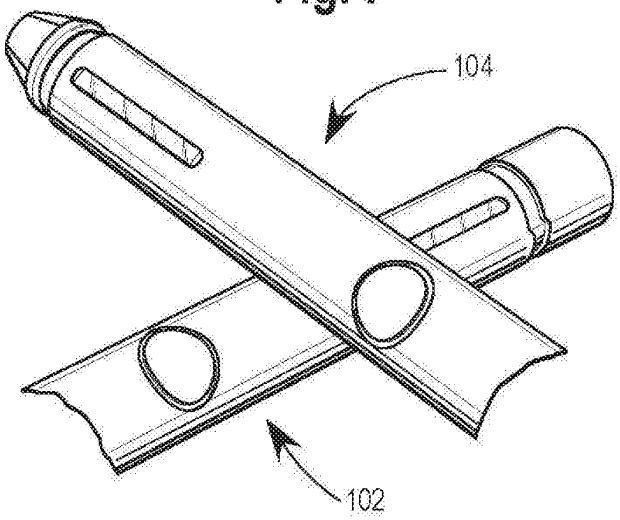


Fig. 8

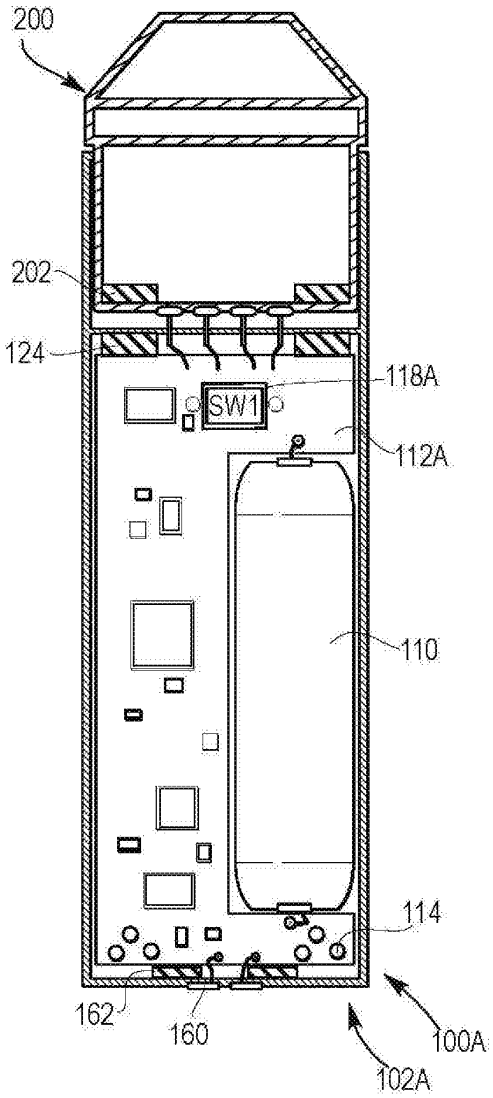

200
202
124
118A
SW1
112A
110
114
162
160
100A
102A

Fig. 9

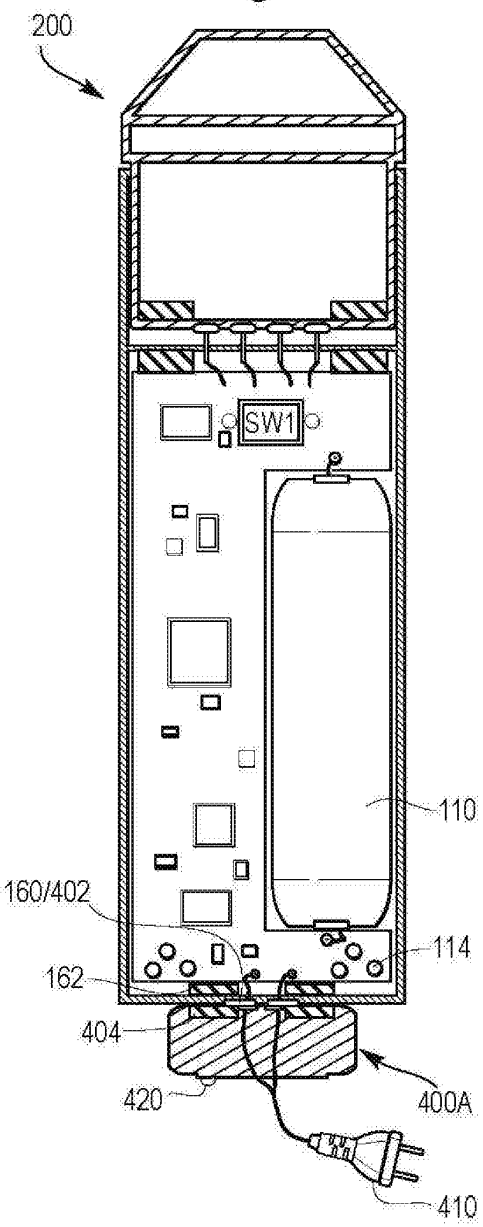

200
SW1
110
160/402
114
162
404
420
400A
410

Fig. 10

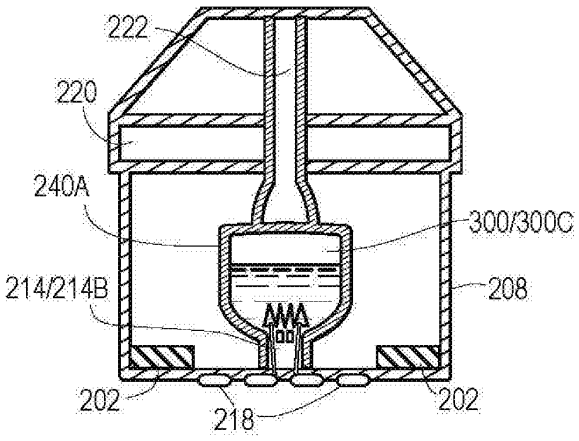
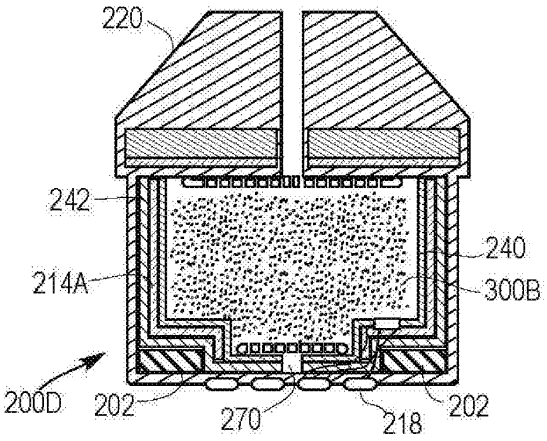

222
220
240A
300/300C
214/214B
208
202
218
202

Fig. 11


220
242
240
214A
300B
200D
202
270
218
202

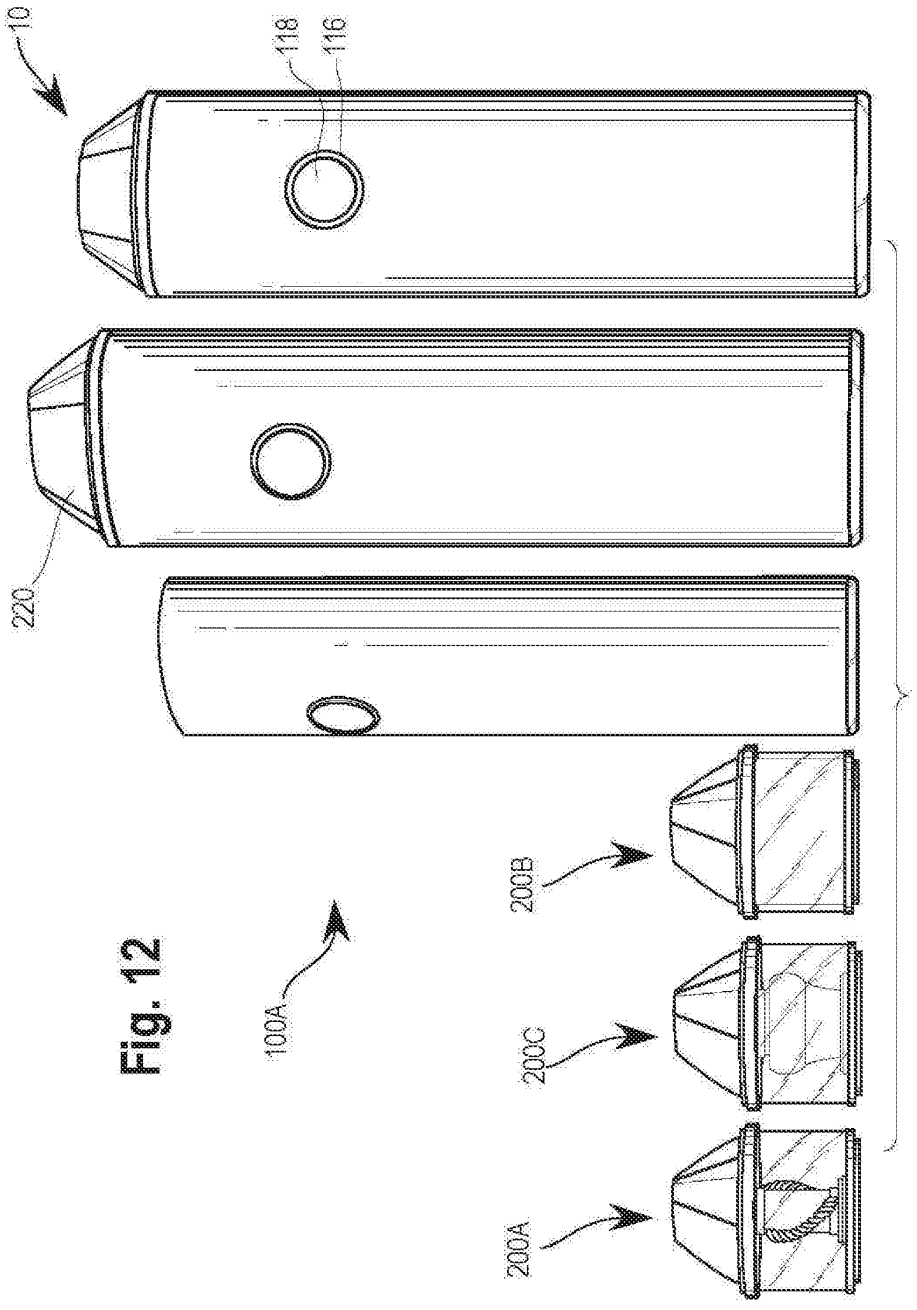


Fig. 12

Fig. 13

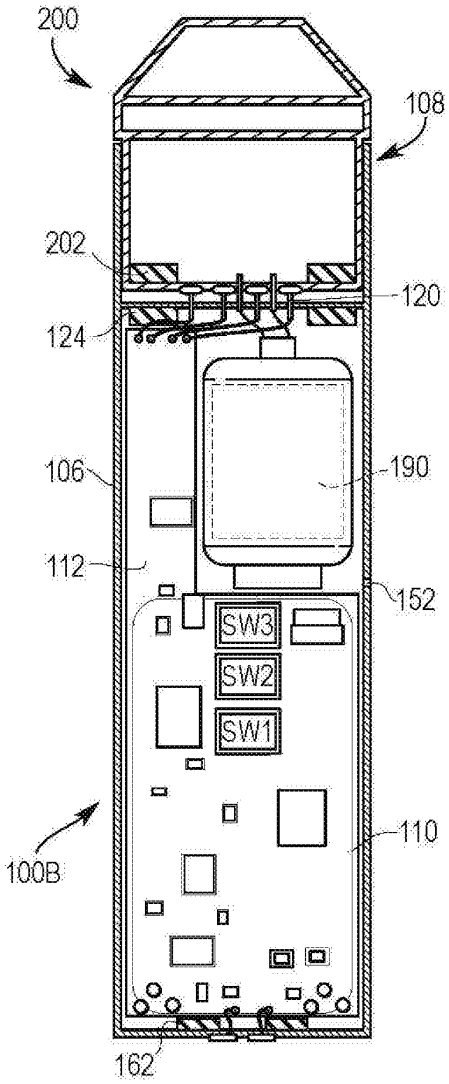
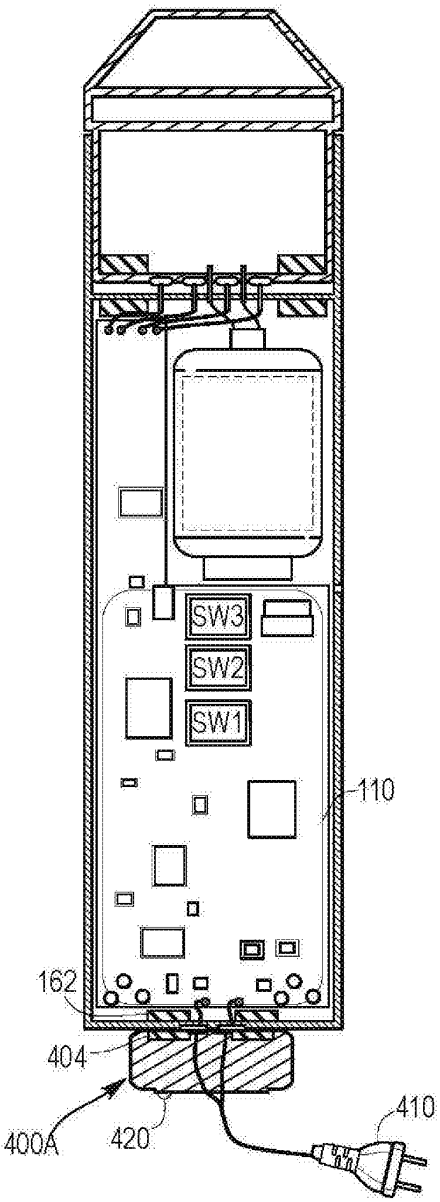

200
108
202
120
124
106
190
112
152
SW3
SW2
SW1
110
100B
162

Fig. 14


SW3
SW2
SW1
110
162
404
410
400A
420

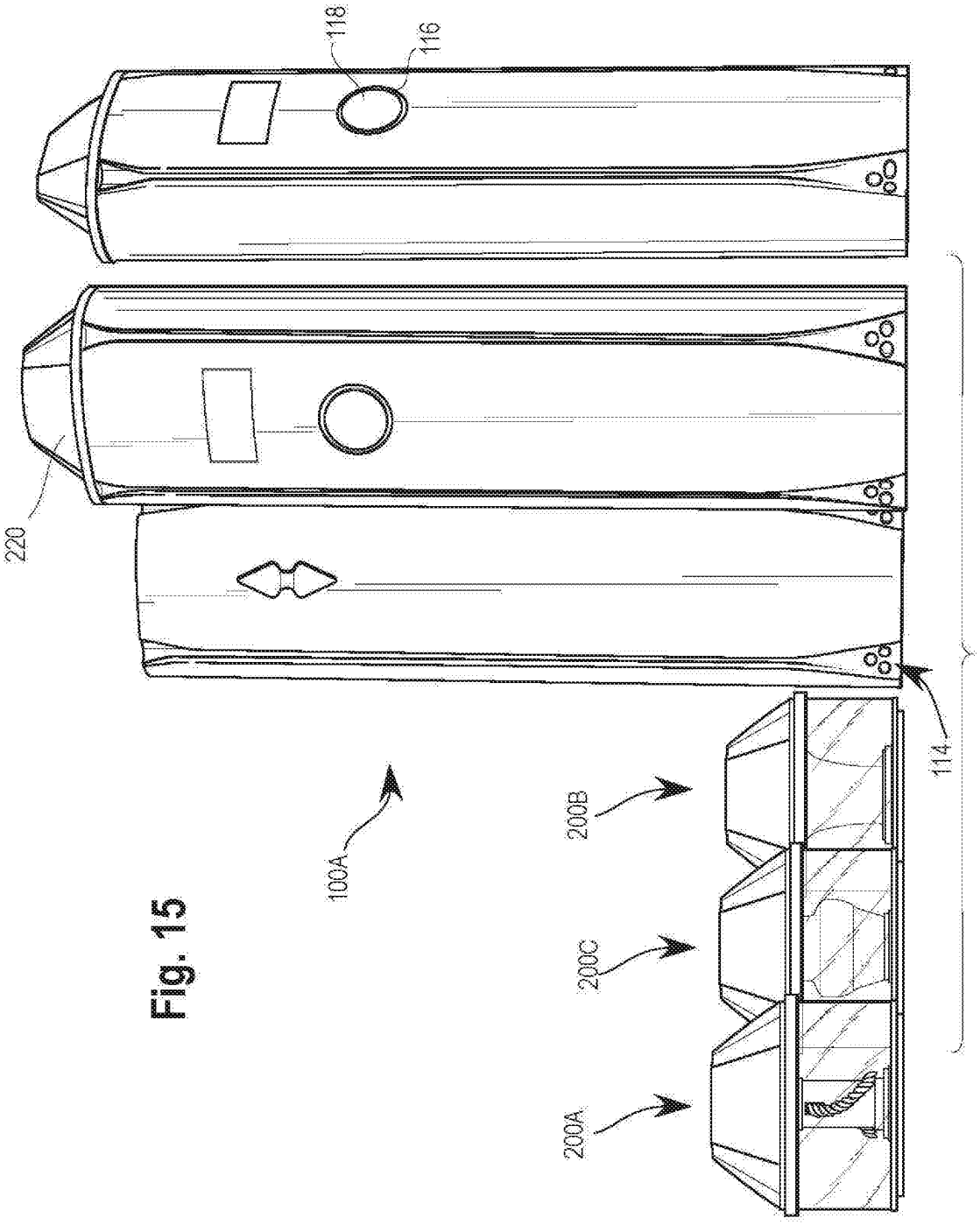


Fig. 15

FIG. 16

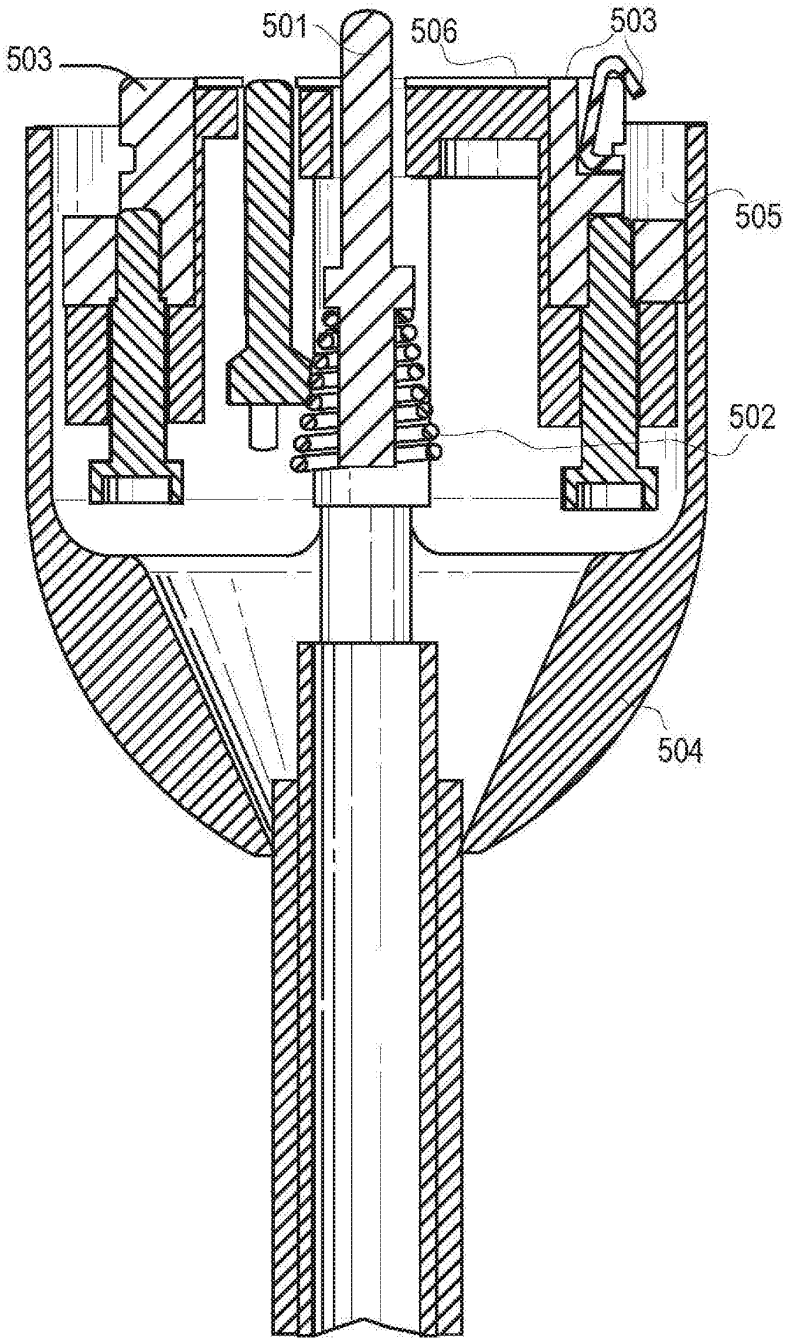


FIG. 17

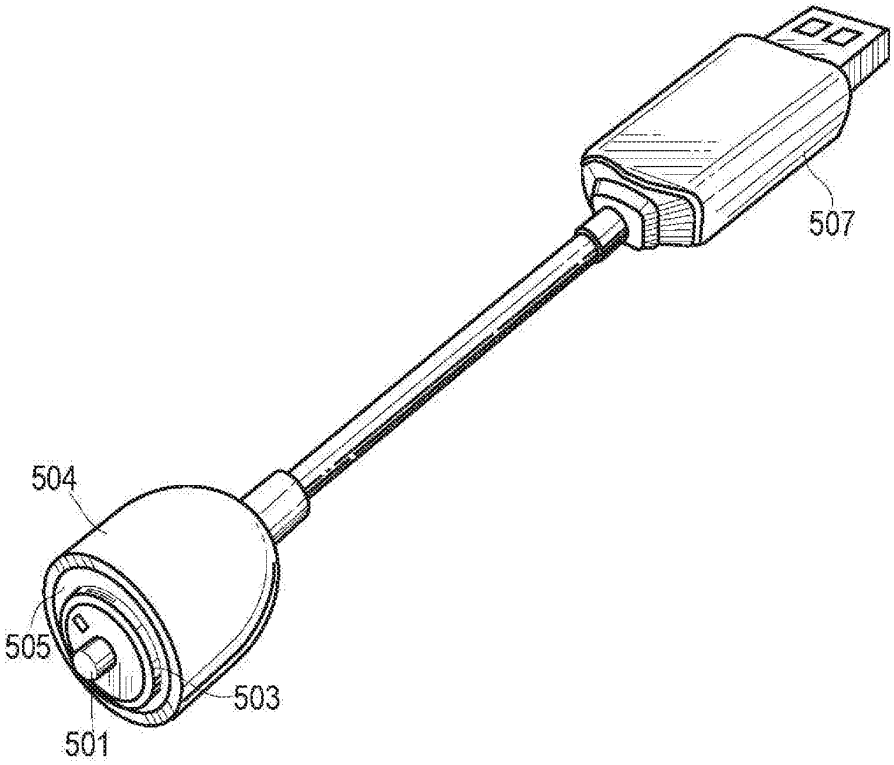


FIG. 18

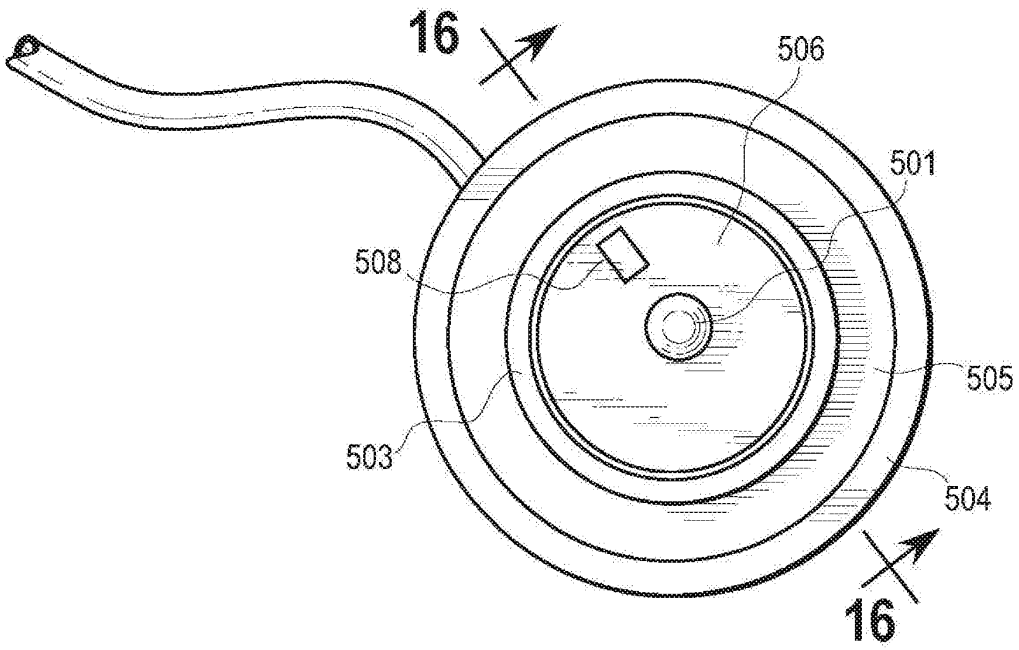


FIG. 19

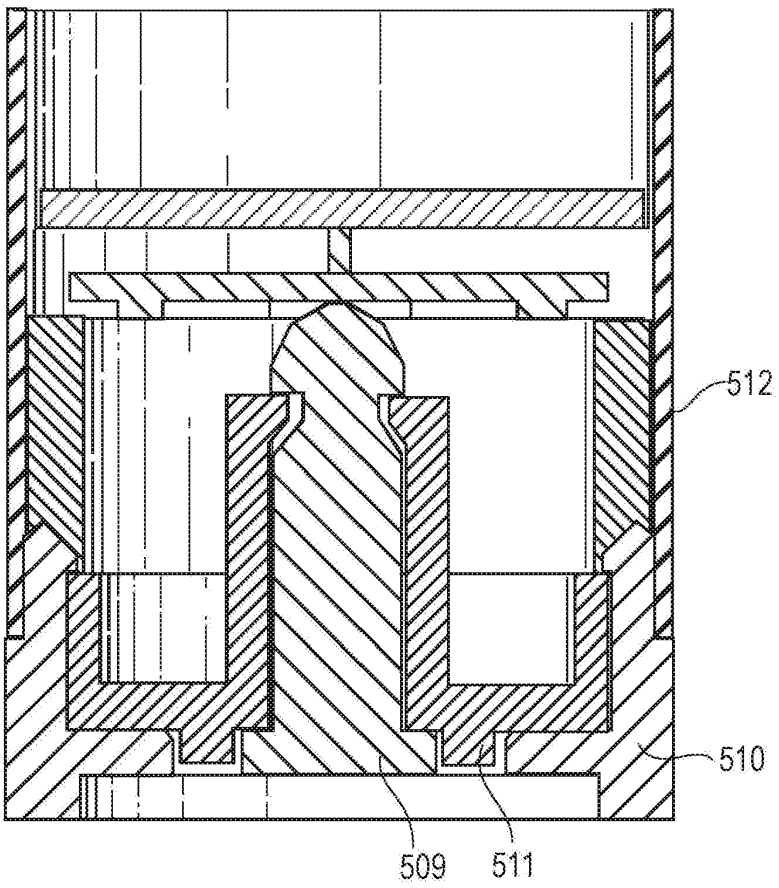


FIG. 20

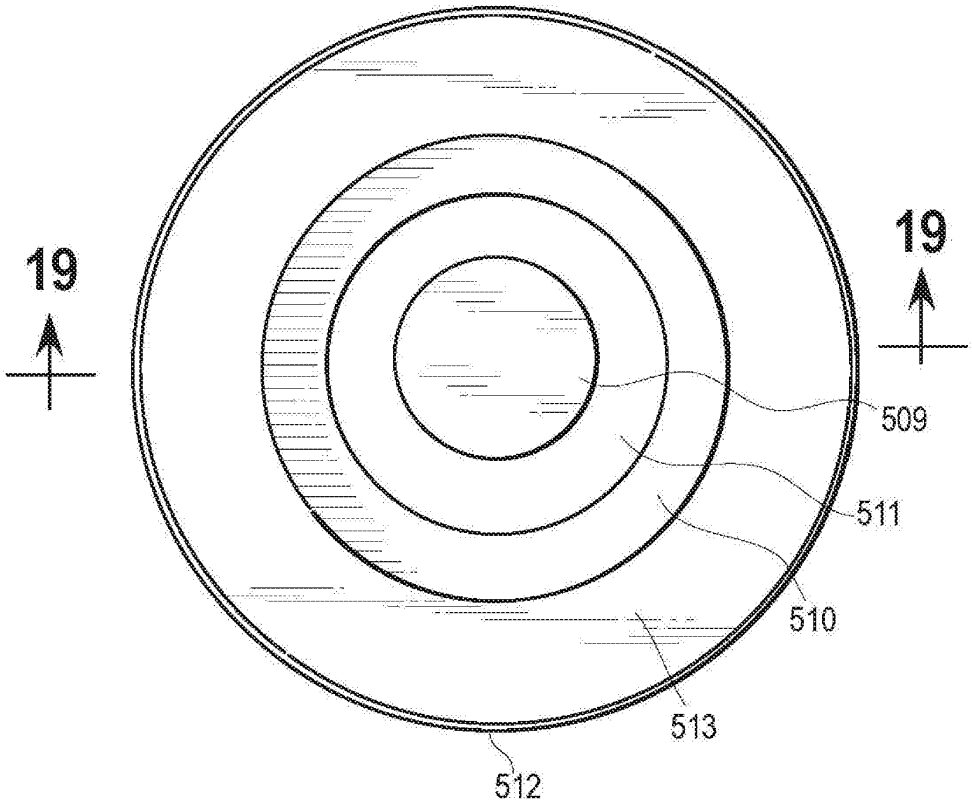


FIG. 21

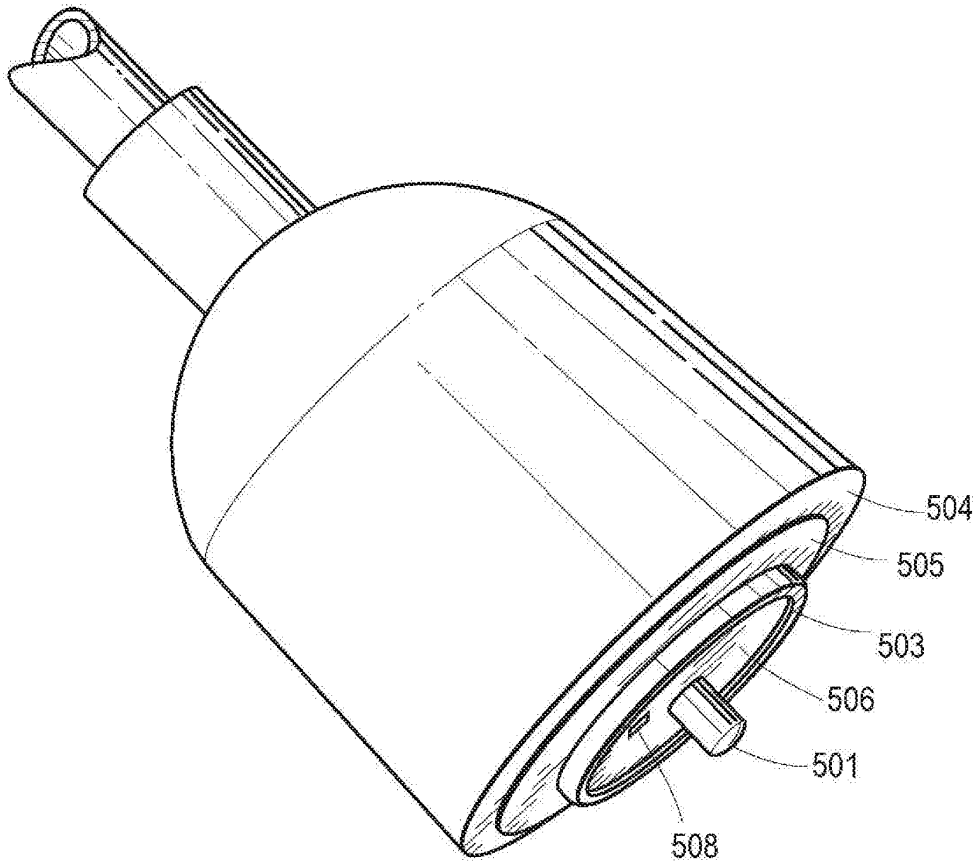
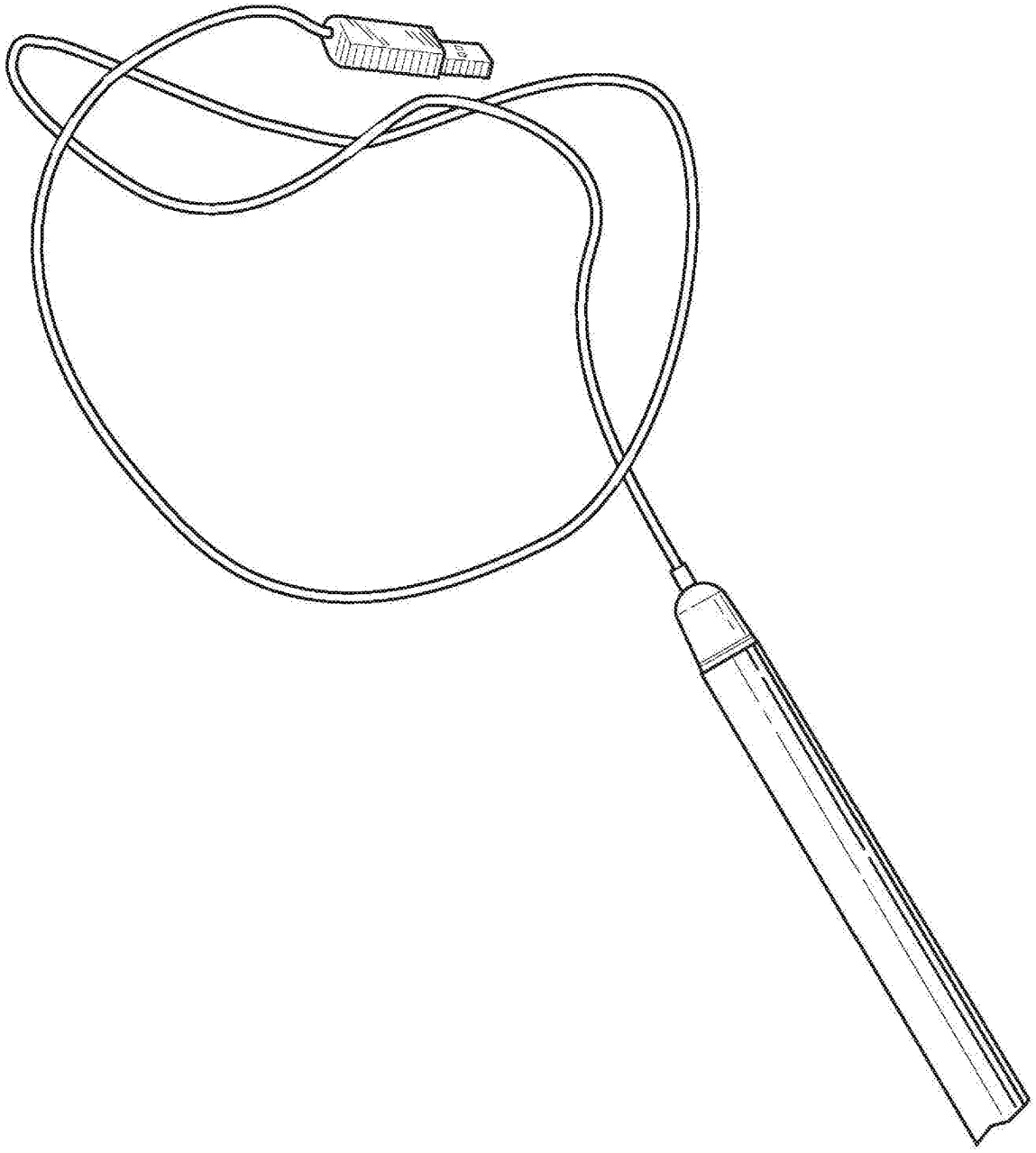


FIG. 22



Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	VAPORIZER
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Curtis Ray Droege/Kimberly Kepple
Attorney Docket Number:	15927-301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1720**

Electronic Acknowledgement Receipt	
EFS ID:	33708835
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	156465
Filer:	Curtis Ray Droege/Kimberly Kepple
Filer Authorized By:	Curtis Ray Droege
Attorney Docket Number:	1597-301
Receipt Date:	13-SEP-2018
Filing Date:	
Time Stamp:	11:33:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1880
RAM confirmation Number	091318INTEFSW11340101
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Fee Worksheet (SB06)	fee-info.pdf	36804 cd7a95efd9cfad63cfc33c52f08905f894a9f571	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	36804		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Patent Application Fee Transmittal

Application Number:	16119359
Filing Date:	
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Curtis Ray Droege/Kimberly Kepple
Attorney Docket Number:	1597-301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
Miscellaneous-Filing:				
LATE FILING FEE FOR OATH OR DECLARATION	1051	1	160	160
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	1880

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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/119,359	08/31/2018		1880	1597-301	2	1

CONFIRMATION NO. 7336

FILING RECEIPT

156465
Hillyer Legal, PLLC
5335 Wisconsin Ave. NW
Suite 440
Washington, DC 20015-2052

OC000000102433284

Date Mailed: 09/21/2018

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)

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

Applicant(s)

VMR Products, LLC, Miami, KY;

Assignment For Published Patent Application

VMR Products, LLC, Miami, FL

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 14/539,801 11/12/2014 PAT 10085481
and is a CON of 62/015,148 06/20/2014
and is a CON of 61/937,851 02/10/2014
and is a CON of 61/903,344 11/12/2013

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

Permission to Access Application via Priority Document Exchange: Yes

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Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 09/19/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/119,359**

Projected Publication Date: 12/27/2018

Non-Publication Request: No

Early Publication Request: No

Title

Vaporizer

Preliminary Class

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

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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.

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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.

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 16/119,359

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	300
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	660
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760
TOTAL CLAIMS (37 CFR 1.16(i))	2 minus 20 =	*			OR	x 100 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x 460 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1720

APPLICATION AS AMENDED - PART II

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

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

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

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

PTO/AIA/82A (07-13)
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Application Number	16/119,359
Filing Date	2018-08-31
First Named Inventor	Jan Andries Verleur
Title	Vaporizer
Art Unit	-
Examiner Name	-
Attorney Docket Number	1597-301

SIGNATURE of Applicant or Patent Practitioner

Signature	/npm/	Date (Optional)	Oct 19, 2018
Name	Nicholas P. Mouton, Esq.	Registration Number	75306
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.

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

PTO/AIA/82B (07-13)
Approved for use through 01/31/2018. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date

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

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 148514

OR

☐ 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):

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

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.

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Electronic Acknowledgement Receipt

EFS ID:	34067855
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	156465
Filer:	Nicholas Paul Mouton/Jeremy Johnston
Filer Authorized By:	Nicholas Paul Mouton
Attorney Docket Number:	1597-301
Receipt Date:	19-OCT-2018
Filing Date:	31-AUG-2018
Time Stamp:	21:51:37
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	Power of Attorney	16119359_POA_conf7336.pdf	291034 81fc5934d0646fd814da5efbce729e97dafc5e76	no	2

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/119,359	08/31/2018	Jan Andries Verleur	1597-301

CONFIRMATION NO. 7336

148514
Mintz/JUUL/PAX
One Financial Center
Boston, MA 02111

POA ACCEPTANCE LETTER

OC000000103271545

Date Mailed: 10/23/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/19/2018.

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**.

/hsarwari/

NJOY Exhibit 1007.085

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/119,359	08/31/2018	Jan Andries Verleur	1597-301

CONFIRMATION NO. 7336

148514
Mintz/JUUL/PAX
One Financial Center
Boston, MA 02111

PUBLICATION NOTICE

OC000000104713228

Title: Vaporizer

Publication No.US-2018-0368481-A1
Publication Date:12/27/2018

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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

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

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

NJOY Exhibit 1007.086

Notice of References Cited	Application/Control No. 16/119,359	Applicant(s)/Patent Under Reexamination	
	Examiner MOHAMED K AHMED ALI	Art Unit 1743	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20140150783-A1	06-2014	Liu; Qiuming	A24F47/008	128/202.21
*	B	US-20140190496-A1	07-2014	Wensley; Martin	A24F47/008	131/273
	C					
	D					
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	G					
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	I					
	J					
	K					
	L					
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

NJOY Exhibit 1007.087

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	Art Unit
	MOHAMED K AHMED ALI	1743

CPC - Searched*		
Symbol	Date	Examiner
A24F47/008, A24F47/004, A24F47/006, A61M15/06.	01/05/2019	MK

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
Inventor names searched in East	01/05/2019	MK
Assignee name searched in Palm	01/05/2019	MK
See east history search attached	01/05/2019	MK

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

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	

NJOY Exhibit 1007.088

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"16119359"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/05 12:21
S2	37	((("Verleur") near3 ("Jan") near3 ("Andries"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/05 16:47
S3	71	((("VERLEUR") near3 ("Jan")) OR (("RECIO") near3 ("Dan")) OR (("LU") near3 ("Yifeng")) OR (("ZHANG") near3 ("Yinjun")) OR (("FAJARDO") near3 ("Arturo")) OR (("VERLEUR") near3 ("Hans"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/01/05 16:48
S4	34	((("Lu") near3 ("Yifeng"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/05 16:49
S5	14	((("Zhang") near3 ("Yinjun"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/05 16:49
S6	17	((("Fajardo") near3 ("Arturo"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/05 16:49
S7	33	((("Verleur") near3 ("Hans"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/05 16:49
S8	124	("20060093977" | "20120318882" | "20130199528" | "20130213420" | "4207457" | "4771295" | "4848374" | "4945929" | "5646666" | "5743251" | "6722763" | "8490628" | "D704634" | "20110220234" | "D260941" | "D720094" | "D720496" | "D726364" | "20150091501" | "3203025" | "3400998" | "4771796" | "4797692" | "4990939" | "5144962" | "5505214" | "5894841" | "6062213" | "6501052" | "7143766" | "D257519" | "D722166" | "20150101625" | "2057353" | "3200819" | "6471782" | "6620659" | "6719443" | "8365742" | "D644375" | "D693053" | "D695450" | "D248047" | "D260690" | "D724263" | "20150208728" | "20160353804" | "20050017685" | "2545851" | "3060429" | "5666977" | "5703633" | "5996589" | "6196218" | "D531180" | "D693765" | "D720881" |	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/05 17:43

NJOY Exhibit 1007.089

		"20130152922" | "4569136" | "20130192617" | "20130220315" | "20130284190" | "20140261499" | "D720882" | "3747120" | "4676237" | "4945448" | "5819756" | "6701921" | "8375957" | "D720095" | "D722956" | "D724782" | "20140034070" | "D721202" | "20150118895" | "3479561" | "5124200" | "5388574" | "6234167" | "D725310" | "20130042865" | "20130180533" | "20150027471" | "8955522" | "9038642" | "D251072" | "D675777" | "D729441" | "1446087" | "20080257367" | "20130298905" | "20150027467" | "3502588" | "5224265" | "5327915" | "7059307" | "8393331" | "D645816" | "D702876" | "D718492" | "D720497" | "20140041655" | "4972855" | "5060671" | "6155268" | "6322268" | "6598607" | "D624238" | "D642330" | "D720883" | "D259588" | "D688415" | "D732733" | "20150157055").PN.				
S9	24	"46799664".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2019/01/06 20:16
S10	24	"46799664".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2019/01/06 20:19
S11	1	wo adj "2014012894"	DERWENT	OR	OFF	2019/01/06 20:21
S12	10	("20150128976" | "20160353804" | "20170197046" | "8893726" | "20160278436" | "9498588" | "20150020831" | "20150305409" | "5269327" | "20130213420").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/06 21:22
S13	2	"20150090281"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/01/06 21:47
S14	1	"20150090281"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/06 21:47
S15	2	"20140150783"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 10:50
S16	4	"50824202".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2019/01/07 10:52
S17	627	((("Liu") near3 ("Qiuming"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 12:07
S18	3	S17 and ((wire coil resist$4 impedance)	US-	OR	OFF	2019/01/07

NJOY Exhibit 1007.090

		with ohm$1)	PGPUB; USPAT; USOCR			12:09
S20	3	S17 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 12:14
S21	4202	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 12:15
S22	1623	A61M15/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 12:15
S23	1085	S21 and S22	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 12:16
S24	111	S23 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 12:16
S25	23	S24 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 12:17
S26	5	"14196729"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 12:38
S27	4	"14539801"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/01/07 12:40

EAST Search History (Interference)

< This search history is empty>

1/7/2019 12:59:42 PM
C:\Users\mali5\Documents\EAST\Workspaces\16119359.wsp

NJOY Exhibit 1007.091

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/119,359	08/31/2018	Jan Andries Verleur	1597-301	7336

148514 7590 01/11/2019

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Boston, MA 02111

EXAMINER	
AHMED ALI, MOHAMED K	
ART UNIT	**PAPER NUMBER**
1743	
NOTIFICATION DATE	**DELIVERY MODE**
01/11/2019	ELECTRONIC

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

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IPFileroombos@mintz.com

NJOY Exhibit 1007.092

Office Action Summary	**Application No.** 16/119,359	**Applicant(s)** Verleur et al.	
	Examiner MOHAMED K AHMED ALI	**Art Unit** 1743	**AIA Status** Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 08/31/2018.

☐ 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) 1-2 is/are pending in the application.

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-2 is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

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DETAILED CORRESPONDENCE

Notice of Pre-AIA or AIA Status

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

Note

Examiner wishes to point out to applicant that claim(s) 1-2 is/are directed towards an apparatus and as such will be examined under the following conditions. The process/manner of using the apparatus and/or the material worked upon by the apparatus is/are viewed as recitation(s) of intended use and is/are given patentable weight only to the extent that structure is added to the claimed apparatus (See MPEP 2114 II and 2115 for further details). For apparatuses, the claim limitations will define structural limitations (See MPEP 2114-2115) or functional limitations properly recited (See MPEP 2173.05 (g)).

Claim Rejections - 35 USC § 103

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

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

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 1 is rejected under 35 U.S.C. 103 as being unpatentable over Liu (US 2014/0150783).

Liu teaches a vaporizer (an electronic cigarette) (Abstract) comprising:

a shell having a battery segment (power rod 95) and a cartomizer receiving segment (91,92) (see fig.1;[0030]), the cartomizer receiving segment defining a chamber (1) having an insertion end (i.e. the connecting end between the connector 92 and the atomizer 91) distal from the battery segment (95) and a base end proximate to the battery segment (i.e. base end of the connector 92 wherein the power rod 95 is connected to the connector 92) (see fig.2; [0030]);

a cartomizer (atomizer 91) insertable into the chamber at the insertion end, the cartomizer including: an outer cartomizer shell (casing 921), a holding structure (connecting mechanism 5 with a seating 51) provided within, and secured to, the outer cartomizer shell (921), (see figs.4-6; [0042]), the holding structure including ...a liquid storing component (33) dimensioned to hold a vaporizable substance, a heating element (atomizing mechanism 21) provided within the liquid storing element operable to heat the vaporizable substance (see fig.4; [0034-0035]), but Liu does not teach the liquid storing element is a basin. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to the shape of the liquid storing element as a basin since it has been held that a mere change in shape of an element is generally recognized as being within the level of ordinary skill in art when the change in shape is not Significant to the function of the combination. **(Please see MPEP 2144.04 IV B for further details).**

Liu further teaches wherein the heating element (atomizing mechanism 21) is comprised of a flexible non-conductive material (fiber member 212), and a flexible conductive material (heating wire 211) wherein the conductive material is intertwined or wound throughout the non-conductive material (see fig.4; [0034]).

Claim 2 is/are rejected under 35 U.S.C. 103 as being unpatentable over Liu (US 2014/0150783) as applied to claim 1 above, and further in view of Wensley (US 2014/0190496).

Regarding **claim 2,**

Liu teaches the vaporizer as discussed in claim 1 above.

Liu does not tech wherein the flexible conductive material has an impedance value of 1 to 3 ohms. **In the same filed of endeavor,** vaporization devices, Wensley an electronic nicotine delivery

device comprises a heating element having a flexible conductive material (metal wire) has an impedance value of 1 to 3 ohms (see figs.1 and 7; [0050], [0152] and [0185]). **Therefore,** it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified a vaporizer as taught by Liu with the flexible conductive material of the heating element has an impedance value of 1 to 3 ohms as taught by Wensley for the purpose of obtain electrically resistive material (see [0152]).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A

web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

Claim 1 is rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1 of U.S. Patent No. 10,085,481 in view of Liu (US 2014/0150783).

Claim 1 of the instant application read in claim 1 of the U.S. Patent No. 10,085,481 except for the heating element is comprised of a flexible non-conductive material, and a flexible conductive material wherein the conductive material is intertwined or wound throughout the non-conductive material.

In the same filed of endeavor, vaporization devices, Liu teaches an electronic cigarette comprising a cartomizer (atomizer 91) having a heating element (atomizing mechanism 21) is comprised of a flexible non-conductive material (fiber member 212), and a flexible conductive material (heating wire 211) wherein the conductive material is intertwined or wound throughout the non-conductive material (see fig.4; [0034]). **Therefore,** it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified a vaporizer as taught by U.S. Patent No. 10,085,481 with the heating element is comprised of a flexible non-conductive material, and a flexible conductive material wherein the conductive material is intertwined or wound throughout the non-conductive material as taught by Liu for the purpose heating the liquid material efficiently.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMED K AHMED ALI whose telephone number is (571)272-0347. The examiner can normally be reached on 10:00 AM-7:30 PM.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Del Sole can be reached on 571-272-1130. 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.

/MOHAMED K AHMED ALI/
Examiner, Art Unit 1743

/JOSEPH S DEL SOLE/
Supervisory Patent Examiner, Art Unit 1743

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/119,359	08/31/2018	Jan Andries Verleur	55755-402C02US/301	7336

148514 7590 02/19/2019

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One Financial Center
Boston, MA 02111

EXAMINER
AHMED ALI, MOHAMED K

ART UNIT	PAPER NUMBER
1743	

NOTIFICATION DATE	DELIVERY MODE
02/19/2019	ELECTRONIC

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FACSIMILE TRANSMITTAL SHEET

Today's Date: February 6, 2019 # of Pages: 4

From: Alexander G. Roan	Direct Dial: (617) 348-4466	Fax No: (617) 542-2241

Recipient	Company	Fax No.	Phone No.
Ex. Ahmed Ali	U.S. Patent and Trademark Office	571-270-9792	571-272-0347

Re: U.S. Serial No. 16/119,359
Filed: August 31, 2018
Docket No.: 055755-402C02US

Examiner Ahmed Ali:

Per your request, prior to our telephonic interview on February 7, 2019, below please find a proposed agenda of items for discussion.

Claim Set
Attached please find a draft proposed claim set. Support for the amendments can be found throughout the specification and drawings. No new matter is added.

Please call 617-348-4866 if you experience problems with this fax.

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Application No. 16/119,359 Docket No. 055755-402C02US

Draft Proposed Claim Amendments
(Not for Entry)

1. (Proposed – Not for Entry) A vaporizer comprising:

a ~~shell~~ battery portion ~~having~~ comprising a battery housing segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery segment and a base end proximate to the battery housing segment, the battery portion further comprising a plurality of charger electrical contacts disposed at a first end of the battery portion, the first end opposite the insertion end; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer ~~including~~ comprising:

~~an outer cartomizer shell,~~

~~a holding structure provided within, and secured to, the outer cartomizer shell, the holding structure including a basin dimensioned to hold~~ a body for holding a vaporizable fluid ~~a vaporizable substance~~[[,]];

a wicking element provided within the body and at least partially in contact with the vaporizable fluid; and

a heating element provided within the ~~basin~~ body in contact with the wicking element and operable to heat the vaporizable fluid ~~substance wherein~~

~~the heating element is comprised of a flexible non-conductive material, and a flexible conductive material wherein the conductive material is intertwined or wound throughout the non-conductive material~~.

2. (Proposed – Not for Entry) The vaporizer of claim 1, wherein the wicking element and the heating element are disposed within the chamber of the cartomizer receiving segment when the cartomizer is inserted into the chamber ~~flexible conductive material has an impedance value of 1 to 3 ohms~~.

3. (Proposed – Not for Entry) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by friction between the cartomizer and the chamber.

4. (Proposed – Not for Entry) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by engagement of snap fit connectors.

5. (Proposed – Not for Entry) The vaporizer of claim 1, further comprising a shell that is commonly shared by the battery housing segment and the cartomizer receiving segment.

6. (Proposed – Not for Entry) The vaporizer of claim 1, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

7. (Proposed – Not for Entry) The vaporizer of claim 5, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

8. (Proposed – Not for Entry) The vaporizer of claim 1, wherein the cartomizer further comprises a mouthpiece opposite an end of the cartomizer configured for insertion into the chamber.

9. (Proposed – Not for Entry) The vaporizer of claim 5, wherein at least a portion of the shell is formed of a translucent material.

10. (Proposed – Not for Entry) The vaporizer of claim 1, wherein the cartomizer further comprises electrical circuitry connected with the heating element.

11. (Proposed – Not for Entry) A vaporizer comprising:

a battery portion comprising:

a battery housing segment;

a cartomizer receiving segment defining a chamber having an insertion end distal from the battery segment and a base end proximate to the battery housing segment;

a plurality of charger electrical contacts disposed at a first end of the battery portion opposite the insertion end; and

at least one magnet in or proximate to the chamber; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid;

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable fluid; and

a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

Applicant-Initiated Interview Summary	**Application No.** 16/119,359	**Applicant(s)** Verleur et al.		
	Examiner MOHAMED K AHMED ALI	**Art Unit** 1743	**AIA (First Inventor to File) Status** Yes	**Page** **1 of** 2

All participants (applicant, applicants representative, PTO personnel):

1. MOHAMED K AHMED ALI (Examiner); Telephonic
2. Michael Van Loy (Attorney of Record); Telephonic
3. James Cleary (Attorney of Record); Telephonic
4. Alexander Roan (Attorney of Record); Telephonic

Date of Interview: 07 February 2019

Claims Discussed: Claim 1

Prior Art Discussed: Liu (US 2014/0150783 - of record)

Amendment proposed: The attached proposed amendment.

Issues Discussed:

Proposed Amendments:
Discussed the proposed amendments. Examiner indicated the proposed amendment appears to overcome the rejection of record and suggested that further clarification of the amendment is needed. Examiner also indicated that further search and consideration is needed upon filing of the amendment.

Attachment(s): Agenda, Proposed Amendments,

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	/JOSEPH S DEL SOLE/ Supervisory Patent Examiner, Art Unit 1743

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

U.S. Patent and Trademark Office
PTOL-413/413b (Rev. 01/01/2015) **Interview Summary** Paper No. 20190208

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

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

Electronic Patent Application Fee Transmittal

Application Number:	16119359
Filing Date:	31-Aug-2018
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Alexander Roan/shae jackson
Attorney Docket Number:	55755-402C02US/301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
		Total in USD ($)		**240**

Electronic Acknowledgement Receipt

EFS ID:	35509813
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Alexander Roan/shae jackson
Filer Authorized By:	Alexander Roan
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	22-MAR-2019
Filing Date:	31-AUG-2018
Time Stamp:	21:13:31
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	Fee Worksheet (SB06)	fee-info.pdf	30575 cbf6763e654d0315fb7244120dfb54709005aae6	no	2

Warnings:

Information:	
Total Files Size (in bytes):	30575

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Patent Application Fee Transmittal

Application Number:	16119359
Filing Date:	31-Aug-2018
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Joshua D. Berk/Shae Jackson
Attorney Docket Number:	55755-402C02US/301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
		Total in USD ($)		**240**

Electronic Acknowledgement Receipt	
EFS ID:	35509823
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Joshua D. Berk/Shae Jackson
Filer Authorized By:	Joshua D. Berk
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	22-MAR-2019
Filing Date:	31-AUG-2018
Time Stamp:	21:15:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$240
RAM confirmation Number	032519INTEFSW00009884500311
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Fee Worksheet (SB06)	fee-info.pdf	30453 cd9475df520c5d130512038c9d493113be6b338a	no	2

Warnings:

Information:

Total Files Size (in bytes):	30453

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.

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	16/119,359
				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
(Use as many sheets as necessary)				Examiner Name	M. M. Ahmed
Sheet	1	of	36	Attorney Docket Number	055755-402C02US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US-20030150451-A1	08-14-2003	Shayan	
	B	US-20030226837-A1	12-11-2003	Blake et al.	
	C	US-20040099266-A1	05-27-2004	Cross et al.	
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				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
Sheet	2	of	36	Attorney Docket Number	055755-402C02US

	AQ	US-20110277780-A1	11-17-2011	Terry et al.		
	AR	US-20110278189-A1	11-17-2011	Terry et al.		
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	BT	US-20130042865-A1	02-21-2013	MONSEES et al.		
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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
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				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
Sheet	3	of	36	Attorney Docket Number	055755-402C02US

	CK	US-20130213419-A1	08-22-2013	Tucker et al.		
	CL	US-20130213420-A1	08-22-2013	Hon		
	CM	US-20130220315-A1	08-29-2013	Conley et al.		
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	DM	US-20140034070-A1	02-06-2014	Schennum		
	DN	US-20140034071-A1	02-06-2014	Levitz et al.		
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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	16/119,359
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				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
Sheet	4	of	36	Attorney Docket Number	055755-402C02US

	EE	US-20140130797-A1	05-15-2014	Liu		
	EF	US-20140130816-A1	05-15-2014	Liu		
	EG	US-20140130817-A1	05-15-2014	Ll et al.		
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	EI	US-20140150784-A1	06-05-2014	Liu		
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	EQ	US-20140182610-A1	07-03-2014	Liu		
	ER	US-20140182611-A1	07-03-2014	LIU		
	ES	US-20140190477-A1	07-10-2014	Qiu		
	ET	US-20140190478-A1	07-10-2014	LIU		
	EU	US-20140190496-A1	07-10-2014	Wensley et al.		
	EV	US-20140190501-A1	07-10-2014	Liu		
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	EX	US-20140190503-A1	07-10-2014	Ll et al.		
	EY	US-20140196716-A1	07-17-2014	Liu		
	EZ	US-20140196718-A1	07-17-2014	Li et al.		
	FA	US-20140196733-A1	07-17-2014	Liu		
	FB	US-20140196735-A1	07-17-2014	Liu		
	FC	US-20140202472-A1	07-24-2014	Levitz et al.		
	FD	US-20140202474-A1	07-24-2014	Peleg et al.		
	FE	US-20140202475-A1	07-24-2014	Liu		
	FF	US-20140202477-A1	07-24-2014	Qi et al.		
	FG	US-20140209105-A1	07-31-2014	Sears et al.		
	FH	US-20140209106-A1	07-31-2014	Liu		
	FI	US-20140209107-A1	07-31-2014	Liu		
	FJ	US-20140209108-A1	07-31-2014	Ll et al.		
	FK	US-20140209109-A1	07-31-2014	Larson		
	FL	US-20140216450-A1	08-07-2014	Liu		
	FM	US-20140216483-A1	08-07-2014	ALIMA		
	FN	US-20140216484-A1	08-07-2014	Liu		
	FO	US-20140224244-A1	08-14-2014	Liu		
	FP	US-20140224267-A1	08-14-2014	Levitz et al.		
	FQ	US-20140230835-A1	08-21-2014	SALIMAN		
	FR	US-20140238421-A1	08-28-2014	Shapiro		
	FS	US-20140238422-A1	08-28-2014	Plunkett et al.		
	FT	US-20140238423-A1	08-28-2014	Tucker et al.		
	FU	US-20140238424-A1	08-28-2014	Macko et al.		
	FV	US-20140246031-A1	09-04-2014	Liu		
	FW	US-20140246033-A1	09-04-2014	Daehne et al.		
	FX	US-20140251324-A1	09-11-2014	Xiang		

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	FY	US-20140251325-A1	09-11-2014	Liu		
	FZ	US-20140251356-A1	09-11-2014	Xiang		
	GA	US-20140253144-A1	09-11-2014	Novak, III et al.		
	GB	US-20140254055-A1	09-11-2014	Xiang		
	GC	US-20140261408-A1	09-18-2014	DePiano et al.		
	GD	US-20140261474-A1	09-18-2014	GONDA		
	GE	US-20140261479-A1	09-18-2014	Xu et al.		
	GF	US-20140261486-A1	09-18-2014	Potter et al.		
	GG	US-20140261487-A1	09-18-2014	Chapman et al.		
	GH	US-20140261488-A1	09-18-2014	Tucker		
	GI	US-20140261489-A1	09-18-2014	Cadieux et al.		
	GJ	US-20140261490-A1	09-18-2014	Kane		
	GK	US-20140261491-A1	09-18-2014	Hawes		
	GL	US-20140261492-A1	09-18-2014	Kane et al.		
	GM	US-20140261493-A1	09-18-2014	Smith et al.		
	GN	US-20140261494-A1	09-18-2014	Scatterday		
	GO	US-20140261495-A1	09-18-2014	Novak, III et al.		
	GP	US-20140261498-A1	09-18-2014	Liu		
	GQ	US-20140261499-A1	09-18-2014	Hon		
	GR	US-20140261500-A1	09-18-2014	Park		
	GS	US-20140270727-A1	09-18-2014	Ampolini et al.		
	GT	US-20140270729-A1	09-18-2014	DePiano et al.		
	GU	US-20140270730-A1	09-18-2014	DePiano et al.		
	GV	US-20140278250-A1	09-18-2014	Smith et al.		
	GW	US-20140278258-A1	09-18-2014	Shafer		
	GX	US-20140283823-A1	09-25-2014	Liu		
	GY	US-20140283855-A1	09-25-2014	Hawes et al.		
	GZ	US-20140283856-A1	09-25-2014	Xiang		
	HA	US-20140283857-A1	09-25-2014	Liu		
	HB	US-20140283858-A1	09-25-2014	Liu		
	HC	US-20140290676-A1	10-02-2014	Liu		
	HD	US-20140290677-A1	10-02-2014	Liu		
	HE	US-20140299137-A1	10-09-2014	Kieckbusch et al.		
	HF	US-20140299138-A1	10-09-2014	Xiang		
	HG	US-20140299139-A1	10-09-2014	Liu		
	HH	US-20140299140-A1	10-09-2014	Liu		
	HI	US-20140299141-A1	10-09-2014	FLICK		
	HJ	US-20140301721-A1	10-09-2014	Ruscio et al.		
	HK	US-20140305450-A1	10-16-2014	Xiang		
	HL	US-20140305451-A1	10-16-2014	Liu		
	HM	US-20140305452-A1	10-16-2014	Liu		
	HN	US-20140311503-A1	10-23-2014	Liu		
	HO	US-20140311504-A1	10-23-2014	Liu		
	HP	US-20140318560-A1	10-30-2014	Hon		
	HQ	US-20140321837-A1	10-30-2014	Flick		
	HR	US-20140332016-A1	11-13-2014	Bellinger et al.		

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	HS	US-20140332017-A1	11-13-2014	Liu		
	HT	US-20140332018-A1	11-13-2014	Liu		
	HU	US-20140332019-A1	11-13-2014	Liu		
	HV	US-20140332020-A1	11-13-2014	LI et al.		
	HW	US-20140332022-A1	11-13-2014	LI et al.		
	HX	US-20140334802-A1	11-13-2014	Dubief		
	HY	US-20140334803-A1	11-13-2014	LI et al.		
	HZ	US-20140334804-A1	11-13-2014	Choi		
	IA	US-20140338680-A1	11-20-2014	Abramov et al.		
	IB	US-20140338684-A1	11-20-2014	Liu		
	IC	US-20140338685-A1	11-20-2014	Amir		
	ID	US-20140345606-A1	11-27-2014	Talon		
	IE	US-20140345630-A1	11-27-2014	Lipowicz		
	IF	US-20140345631-A1	11-27-2014	Bowen et al.		
	IG	US-20140345632-A1	11-27-2014	SCATTERDAY		
	IH	US-20140345633-A1	11-27-2014	Talon et al.		
	II	US-20140345635-A1	11-27-2014	RABINOWITZ et al.		
	IJ	US-20140352707-A1	12-04-2014	Liu		
	IK	US-20140353856-A1	12-04-2014	Dubief		
	IL	US-20140355969-A1	12-04-2014	Stern		
	IM	US-20140360516-A1	12-11-2014	LIU		
	IN	US-20140366894-A1	12-18-2014	Liu		
	IO	US-20140366895-A1	12-18-2014	LI et al.		
	IP	US-20140366896-A1	12-18-2014	LI et al.		
	IQ	US-20140366897-A1	12-18-2014	Liu		
	IR	US-20140366898-A1	12-18-2014	MONSEES et al.		
	IS	US-20140366902-A1	12-18-2014	Chiolini et al.		
	IT	US-20140373833-A1	12-25-2014	LIU		
	IU	US-20140376895-A1	12-25-2014	Han		
	IV	US-20140378790-A1	12-25-2014	Cohen		
	IW	US-2015/0040925-A1	02-12-2015	Saleem et al.		
	IX	US-2015/0118895-A1	04-30-2015	Zheng et al.		
	IY	US-2015/0141093-A1	05-21-2015	Sela et al.		
	IZ	US-2015/0216236-A1	08-06-2015	Bless et al.		
	JA	US-2015/0250232-A1	09-10-2015	Hon		
	JB	US-20150000682-A1	01-01-2015	Liu		
	JC	US-20150000683-A1	01-01-2015	Liu		
	JD	US-20150007834-A1	01-08-2015	Liu		
	JE	US-20150007835-A1	01-08-2015	Liu		
	JF	US-20150007836-A1	01-08-2015	Li et al.		
	JG	US-20150013692-A1	01-15-2015	Liu		
	JH	US-20150013700-A1	01-15-2015	LIU		
	JI	US-20150013701-A1	01-15-2015	Liu		
	JJ	US-20150013702-A1	01-15-2015	LIU		
	JK	US-20150020822-A1	01-22-2015	Janardhan et al.		
	JL	US-20150020823-A1	01-22-2015	Lipowicz et al.		

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	JM	US-20150020824-A1	01-22-2015	Bowen et al.		
	JN	US-20150020825-A1	01-22-2015	Galloway et al.		
	JO	US-20150020826-A1	01-22-2015	Liu		
	JP	US-20150020827-A1	01-22-2015	Liu		
	JQ	US-20150020828-A1	01-22-2015	Liu		
	JR	US-20150020829-A1	01-22-2015	Ll		
	JS	US-20150020830-A1	01-22-2015	Koller		
	JT	US-20150020831-A1	01-22-2015	Weigensberg et al.		
	JU	US-20150020833-A1	01-22-2015	Conley et al.		
	JV	US-20150027454-A1	01-29-2015	Li et al.		
	JW	US-20150027455-A1	01-29-2015	Peleg et al.		
	JX	US-20150027456-A1	01-29-2015	Janardhan et al.		
	JY	US-20150027457-A1	01-29-2015	Janardhan et al.		
	JZ	US-20150027460-A1	01-29-2015	Liu		
	KA	US-20150027461-A1	01-29-2015	Liu		
	KB	US-20150027462-A1	01-29-2015	Liu		
	KC	US-20150027463-A1	01-29-2015	Liu		
	KD	US-20150027464-A1	01-29-2015	Liu		
	KE	US-20150027465-A1	01-29-2015	Liu		
	KF	US-20150027467-A1	01-29-2015	Liu		
	KG	US-20150027468-A1	01-29-2015	Li et al.		
	KH	US-20150027469-A1	01-29-2015	Tucker et al.		
	KI	US-20150027470-A1	01-29-2015	Kane et al.		
	KJ	US-20150027472-A1	01-29-2015	Amir		
	KK	US-20150027473-A1	01-29-2015	Graf		
	KL	US-20150034102-A1	02-05-2015	Faramarzian		
	KM	US-20150034103-A1	02-05-2015	Hon		
	KN	US-20150034104-A1	02-05-2015	Zhou		
	KO	US-20150034105-A1	02-05-2015	Liu		
	KP	US-20150034106-A1	02-05-2015	Liu		
	KQ	US-20150034107-A1	02-05-2015	Liu		
	KR	US-20150040927-A1	02-12-2015	Ll et al.		
	KS	US-20150040929-A1	02-12-2015	Hon		
	KT	US-20150047658-A1	02-19-2015	Cyphert et al.		
	KU	US-20150047659-A1	02-19-2015	Liu		
	KV	US-20150047660-A1	02-19-2015	Liu		
	KW	US-20150047661-A1	02-19-2015	Blackley et al.		
	KX	US-20150047662-A1	02-19-2015	Hopps		
	KY	US-20150047663-A1	02-19-2015	Liu		
	KZ	US-20150053215-A1	02-26-2015	Liu		
	LA	US-20150053216-A1	02-26-2015	Liu		
	LB	US-20150053217-A1	02-26-2015	Steingraber et al.		
	LC	US-20150053220-A1	02-26-2015	Levy et al.		
	LD	US-20150059779-A1	03-05-2015	Alarcon et al.		
	LE	US-20150059782-A1	03-05-2015	Liu		
	LF	US-20150059783-A1	03-05-2015	Liu		

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	LG	US-20150059784-A1	03-05-2015	Liu		
	LH	US-20150068543-A1	03-12-2015	Liu		
	LI	US-20150075545-A1	03-19-2015	Xiang		
	LJ	US-20150078735-A1	03-19-2015	Cormack		
	LK	US-20150083144-A1	03-26-2015	Xiang		
	LL	US-20150083145-A1	03-26-2015	LI et al.		
	LM	US-20150083147-A1	03-26-2015	Schiff et al.		
	LN	US-20150090253-A1	04-02-2015	Farrow		
	LO	US-20150090256-A1	04-02-2015	CHUNG		
	LP	US-20150090277-A1	04-02-2015	Xiang		
	LQ	US-20150090278-A1	04-02-2015	Schiff et al.		
	LR	US-20150090279-A1	04-02-2015	Chen		
	LS	US-20150090280-A1	04-02-2015	Chen		
	LT	US-20150090281-A1	04-02-2015	Chen		
	LU	US-20150101606-A1	04-16-2015	White		
	LV	US-20150101622-A1	04-16-2015	Liu		
	LW	US-20150101623-A1	04-16-2015	Liu		
	LX	US-20150101625-A1	04-16-2015	Newton et al.		
	LY	US-20150101626-A1	04-16-2015	LI et al.		
	LZ	US-20150107609-A1	04-23-2015	Liu		
	MA	US-20150107611-A1	04-23-2015	Metrangolo et al.		
	MB	US-20150114407-A1	04-30-2015	Duncan et al.		
	MC	US-20150114410-A1	04-30-2015	Doster		
	MD	US-20150117842-A1	04-30-2015	Brammer et al.		
	ME	US-20150122252-A1	05-07-2015	Frija		
	MF	US-20150122274-A1	05-07-2015	Cohen et al.		
	MG	US-20150128965-A1	05-14-2015	Lord		
	MH	US-20150128966-A1	05-14-2015	Lord		
	MI	US-20150128967-A1	05-14-2015	Robinson et al.		
	MJ	US-20150128970-A1	05-14-2015	Liu		
	MK	US-20150128971-A1	05-14-2015	Verleur et al.		
	ML	US-20150128972-A1	05-14-2015	Verleur et al.		
	MM	US-20150128973-A1	05-14-2015	LI et al.		
	MN	US-20150128974-A1	05-14-2015	Hon		
	MO	US-20150128976-A1	05-14-2015	Verleur et al.		
	MP	US-20150128977-A1	05-14-2015	LI et al.		
	MQ	US-20150136153-A1	05-21-2015	Lord		
	MR	US-20150136154-A1	05-21-2015	Mitrev et al.		
	MS	US-20150136155-A1	05-21-2015	Verleur et al.		
	MT	US-20150136156-A1	05-21-2015	Liu		
	MU	US-20150136157-A1	05-21-2015	LIU		
	MV	US-20150136158-A1	05-21-2015	Stevens et al.		
	MW	US-20150142387-A1	05-21-2015	Alarcon et al.		
	MX	US-20150144145-A1	05-28-2015	Chang et al.		
	MY	US-20150144147-A1	05-28-2015	LI et al.		
	MZ	US-20150144148-A1	05-28-2015	Chen		

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	NA	US-20150150303-A1	06-04-2015	Jensen		
	NB	US-20150150305-A1	06-04-2015	Shenkal		
	NC	US-20150150306-A1	06-04-2015	Chen		
	ND	US-20150150307-A1	06-04-2015	Liu		
	NE	US-20150150308-A1	06-04-2015	Monsees et al.		
	NF	US-20150157053-A1	06-11-2015	Mayor		
	NG	US-20150157054-A1	06-11-2015	Liu		
	NH	US-20150157055-A1	06-11-2015	Lord		
	NI	US-20150157056-A1	06-11-2015	Bowen et al.		
	NJ	US-20150163859-A1	06-11-2015	Schneider et al.		
	NK	US-20150164138-A1	06-18-2015	Liu		
	NL	US-20150164141-A1	06-18-2015	Newton		
	NM	US-20150164142-A1	06-18-2015	Li et al.		
	NN	US-20150164143-A1	06-18-2015	Maas		
	NO	US-20150164144-A1	06-18-2015	Liu		
	NP	US-20150164145-A1	06-18-2015	ZHOU		
	NQ	US-20150164146-A1	06-18-2015	Ll et al.		
	NR	US-20150164147-A1	06-18-2015	Verleur et al.		
	NS	US-20150167976-A1	06-18-2015	Recio		
	NT	US-20150173124-A1	06-18-2015	Qiu		
	NU	US-20150173419-A1	06-25-2015	Tu		
	NV	US-20150173421-A1	06-25-2015	Hsieh		
	NW	US-20150173422-A1	06-25-2015	Liu		
	NX	US-20150181928-A1	07-02-2015	Liu		
	NY	US-20150181937-A1	07-02-2015	Dubief et al.		
	NZ	US-20150181939-A1	07-02-2015	Liu		
	OA	US-20150181940-A1	07-02-2015	Liu		
	OB	US-20150181941-A1	07-02-2015	Liu		
	OC	US-20150181943-A1	07-02-2015	Ll et al.		
	OD	US-20150181944-A1	07-02-2015	Ll et al.		
	OE	US-20150181945	07-02-2015	Tremblay		
	OF	US-20150184846-A1	07-02-2015	LIU		
	OG	US-20150189695-A1	07-02-2015	Xiang		
	OH	US-20150189918-A1	07-09-2015	Liu		
	OI	US-20150189919-A1	07-09-2015	Liu		
	OJ	US-20150189920-A1	07-09-2015	Liu		
	OK	US-20150196055-A1	07-16-2015	Liu		
	OL	US-20150196056-A1	07-16-2015	Liu		
	OM	US-20150196057-A1	07-16-2015	Wu		
	ON	US-20150196058-A1	07-16-2015	Lord		
	OO	US-20150196059-A1	07-16-2015	LIU		
	OP	US-20150196062-A1	07-16-2015	Ll et al.		
	OQ	US-20150200385-A1	07-16-2015	LIU		
	OR	US-20150201674-A1	07-23-2015	Dooly et al.		
	OS	US-20150201675-A1	07-23-2015	Lord		
	OT	US-20150208724-A1	07-30-2015	WU		

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	OU	US-20150208725-A1	07-30-2015	TSAI		
	OV	US-20150208726-A1	07-30-2015	Liu		
	OW	US-20150208728-A1	07-30-2015	Lord		
	OX	US-20150208729	07-2015	Monsees et al.		
	OY	US-20150208731-A1	07-30-2015	MALAMUD et al.		
	OZ	US-20150216232-A1	08-06-2015	Bless et al.		
	PA	US-20150216233-A1	08-06-2015	Sears et al.		
	PB	US-20150216234-A1	08-06-2015	Chung		
	PC	US-20150216235-A1	08-06-2015	Liu		
	PD	US-20150223522-A1	08-13-2015	Ampolini et al.		
	PE	US-20150224268-A1	08-13-2015	Henry et al.		
	PF	US-20150230521-A1	08-20-2015	Talon		
	PG	US-20150237914-A1	08-27-2015	Han		
	PH	US-20150237916-A1	08-27-2015	Farine et al.		
	PI	US-20150237917-A1	08-27-2015	Lord		
	PJ	US-20150237918-A1	08-27-2015	Liu		
	PK	US-20150245654-A1	09-03-2015	MEMARI et al.		
	PL	US-20150245655-A1	09-03-2015	MEMARI et al.		
	PM	US-20150245657-A1	09-03-2015	MEMARI et al.		
	PN	US-20150245658-A1	09-03-2015	Worm et al.		
	PO	US-20150245659-A1	09-03-2015	DePiano et al.		
	PP	US-20150245661-A1	09-03-2015	Milin		
	PQ	US-20150245665-A1	09-03-2015	MEMARI et al.		
	PR	US-20150245666-A1	09-03-2015	MEMARI et al.		
	PS	US-20150245667-A1	09-03-2015	MEMARI et al.		
	PT	US-20150245668-A1	09-03-2015	MEMARI et al.		
	PU	US-20150245669-A1	09-03-2015	CADIEUX et al.		
	PV	US-20150257444-A1	09-17-2015	CHUNG		
	PW	US-20150257445-A1	09-17-2015	Henry, Jr. et al.		
	PX	US-20150257446-A1	09-17-2015	Chung		
	PY	US-20150257447-A1	09-17-2015	Sullivan		
	PZ	US-20150257449-A1	09-17-2015	Gabbay		
	QA	US-20150257451-A1	09-17-2015	Brannon et al.		
	QB	US-20150258289-A1	09-17-2015	Henry, JR. et al.		
	QC	US-20150272211-A1	10-01-2015	CHUNG		
	QD	US-20150272217-A1	10-01-2015	Chen		
	QE	US-20150272218-A1	10-01-2015	Chen		
	QF	US-20150272220-A1	10-01-2015	SPINKA et al.		
	QG	US-20150272221-A1	10-01-2015	Liu		
	QH	US-20150272222-A1	10-01-2015	Spinka et al.		
	QI	US-20150272223-A1	10-01-2015	WEIGENSBERG et al.		
	QJ	US-20150282525-A1	10-08-2015	Plojoux et al.		
	QK	US-20150282527-A1	10-08-2015	Henry, Jr.		
	QL	US-20150282529-A1	10-08-2015	LI et al.		
	QM	US-20150282530-A1	10-08-2015	Johnson et al.		
	QN	US-20150289567-A1	10-15-2015	LIU		

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	QO	US-20150296883-A1	10-22-2015	Wu		
	QP	US-20150296885-A1	10-22-2015	LIU		
	QQ	US-20150296886-A1	10-22-2015	LI et al.		
	QR	US-20150296887-A1	10-22-2015	Zhu		
	QS	US-20150296889-A1	10-22-2015	LIU		
	QT	US-20150305403-A1	10-29-2015	COELHO BELO FERNANDES DE CARVALHO		
	QU	US-20150305406-A1	10-29-2015	LI et al.		
	QV	US-20150305407-A1	10-29-2015	LI et al.		
	QW	US-20150305408-A1	10-29-2015	LIU		
	QX	US-20150305409-A1	10-29-2015	Verleur et al.		
	QY	US-20150313275-A1	11-05-2015	ANDERSON et al.		
	QZ	US-20150313282-A1	11-05-2015	Ademe et al.		
	RA	US-20150313283-A1	11-05-2015	Collett et al.		
	RB	US-20150313284-A1	11-05-2015	Liu		
	RC	US-20150313287-A1	11-05-2015	VERLEUR et al.		
	RD	US-20150313288-A1	11-05-2015	LIU		
	RE	US-20150320114-A1	11-12-2015	WU		
	RF	US-20150320116-A1	11-12-2015	Bleloch et al.		
	RG	US-20150327595-A1	11-19-2015	Scatterday		
	RH	US-20150327596-A1	11-19-2015	Alarcon et al.		
	RI	US-20150327597-A1	11-19-2015	LI et al.		
	RJ	US-20150328415-A1	11-19-2015	Minskoff et al.		
	RK	US-20150335071-A1	11-26-2015	Brinkley et al.		
	RL	US-20150335074-A1	11-26-2015	Leung		
	RM	US-20150335075-A1	11-26-2015	Minskoff et al.		
	RN	US-20150342254-A1	12-03-2015	MIRONOV et al.		
	RO	US-20150342255-A1	12-03-2015	Wu		
	RP	US-20150342256-A1	12-03-2015	Chen		
	RQ	US-20150342257-A1	12-03-2015	Chen		
	RR	US-20150342259-A1	12-03-2015	BAKER et al.		
	RS	US-20150351454-A1	12-10-2015	Huang		
	RT	US-20150351455-A1	12-10-2015	LIU		
	RU	US-20150351456-A1	12-10-2015	Johnson et al.		
	RV	US-20150351457-A1	12-10-2015	Liu		
	RW	US-20150357608-A1	12-10-2015	Huang		
	RX	US-20150357839-A1	12-10-2015	Cai et al.		
	RY	US-20150359261-A1	12-17-2015	LI et al.		
	RZ	US-20150359262-A1	12-17-2015	Liu et al.		
	SA	US-20150359263-A1	12-17-2015	BELLINGER		
	SB	US-20150359265-A1	12-17-2015	LIU		
	SC	US-20150366265-A1	12-24-2015	Lansing		
	SD	US-20150366266-A1	12-24-2015	Chen		
	SE	US-20150366267-A1	12-24-2015	LIU		
	SF	US-20150374039-A1	12-31-2015	Zhu		
	SG	US-20150374040-A1	12-31-2015	Chen		

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	SH	US-2016/0044963-A1	02-18-2016	SALEEM	
	SI	US-2016/0353804-A1	12-08-2016	LORD	
	SJ	US-20160000147-A1	01-07-2016	LI et al.	
	SK	US-20160000148-A1	01-07-2016	LIU	
	SL	US-20160000149-A1	01-07-2016	SCATTERDAY	
	SM	US-20160007650-A1	01-14-2016	Duncan et al.	
	SN	US-20160007654-A1	01-14-2016	Zhu	
	SO	US-20160007655-A1	01-14-2016	LI et al.	
	SP	US-20160015082-A1	01-21-2016	LIU	
	SQ	US-20160021930-A1	01-28-2016	Minskoff et al.	
	SR	US-20160021931-A1	01-28-2016	HAWES et al.	
	SS	US-20160021933-A1	01-28-2016	THORENS et al.	
	ST	US-20160021934-A1	01-28-2016	CADIEUX et al.	
	SU	US-20160029697-A1	02-04-2016	SHAFER	
	SV	US-20160029698-A1	02-04-2016	XIANG	
	SW	US-20160029699-A1	02-04-2016	LI et al.	
	SX	US-20160029700-A1	02-04-2016	LI et al.	
	SY	US-20160044961-A1	02-18-2016	LIU	
	SZ	US-20160044964-A1	02-18-2016	LIU	
	TA	US-20160044965-A1	02-18-2016	LIU	
	TB	US-20160044966-A1	02-18-2016	LI et al.	
	TC	US-20160044967-A1	02-18-2016	Bowen et al.	
	TD	US-20160044968-A1	02-18-2016	Bowen et al.	
	TE	US-20160053988-A1	02-25-2016	Quintana	
	TF	US-20160057811-A1	02-25-2016	Alarcon et al.	
	TG	US-20160058071-A1	03-03-2016	HEARN	
	TH	US-20160058072-A1	03-03-2016	LIU	
	TI	US-20160058073-A1	03-03-2016	Chen	
	TJ	US-20160058074-A1	03-03-2016	LIU	
	TK	US-20160073690-A1	03-17-2016	LIU	
	TL	US-20160073691-A1	03-17-2016	Liu	
	TM	US-20160073692-A1	03-17-2016	Alarcon et al.	
	TN	US-20160073693-A1	03-17-2016	REEVELL	
	TO	US-20160073694-A1	03-17-2016	LIU	
	TP	US-20160080469-A1	03-17-2016	LIU	
	TQ	US-20160081393-A1	03-24-2016	Black	
	TR	US-20160081395-A1	03-24-2016	THORENS et al.	
	TS	US-20160088874-A1	03-31-2016	LIPOWICZ	
	TT	US-20160089508-A1	03-31-2016	Smith et al.	
	TU	US-20160095352-A1	04-07-2016	LIU	
	TV	US-20160095353-A1	04-07-2016	LIU	
	TW	US-20160095354-A1	04-07-2016	WU	
	TX	US-20160095355-A1	04-07-2016	HEARN	
	TY	US-20160095356-A1	04-07-2016	Chan	
	TZ	US-20160095357-A1	04-07-2016	BURTON	
	UA	US-20160100632-A1	04-14-2016	Debono et al.	

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	UB	US-20160106151-A1	04-21-2016	SWEPSTON et al.		
	UC	US-20160106152-A1	04-21-2016	Liu		
	UD	US-20160106154-A1	04-21-2016	Lord		
	UE	US-20160106155-A1	04-21-2016	REEVELL		
	UF	US-20160106156-A1	04-21-2016	QIU		
	UG	US-20160106936-A1	04-21-2016	Kimmel		
	UH	US-20160109115-A1	04-21-2016	LIPOWICZ		
	UI	US-20160113325-A1	04-28-2016	LIU		
	UJ	US-20160113326-A1	04-28-2016	LI et al.		
	UK	US-20160113327-A1	04-28-2016	Wu		
	UL	US-20160120218-A1	05-05-2016	SCHENNUM et al.		
	UM	US-20160120220-A1	05-05-2016	MALGAT et al.		
	UN	US-20160120222-A1	05-05-2016	BAGAI et al.		
	UO	US-20160120223-A1	05-05-2016	KEEN et al.		
	UP	US-20160120224-A1	05-05-2016	MISHRA et al.		
	UQ	US-20160120225-A1	05-05-2016	MISHRA et al.		
	UR	US-20160120228-A1	05-05-2016	ROSTAMI et al.		
	US	US-20160121058-A1	05-05-2016	Chen		
	UT	US-20160128384-A1	05-12-2016	LUCIANI et al.		
	UU	US-20160128385-A1	05-12-2016	Lin		
	UV	US-20160128387-A1	05-12-2016	Chen		
	UW	US-20160128388-A1	05-12-2016	LIU		
	UX	US-20160128390-A1	05-12-2016	LIU		
	UY	US-20160135501-A1	05-19-2016	LIU		
	UZ	US-20160135503-A1	05-19-2016	LIU		
	VA	US-20160135507-A1	05-19-2016	THORENS et al.		
	VB	US-20160143354-A1	05-26-2016	Liu		
	VC	US-20160143357-A1	05-26-2016	LIU		
	VD	US-20160143359-A1	05-26-2016	Xiang		
	VE	US-20160143365-A1	05-26-2016	LIU		
	VF	US-20160150821-A1	06-02-2016	LIU		
	VG	US-20160150824-A1	06-02-2016	MEMARI et al.		
	VH	US-20160150826-A1	06-02-2016	Liu		
	VI	US-20160150827-A1	06-02-2016	Liu		
	VJ	US-20160157523-A1	06-09-2016	LIU		
	VK	US-20160157525-A1	06-09-2016	TUCKER et al.		
	VL	US-20160174609-A1	06-23-2016	MIRONOV		
	VM	US-20160174611-A1	06-23-2016	MONSEES et al.		
	VN	US-20160183593-A1	06-30-2016	Liu		
	VO	US-20160183594-A1	06-30-2016	Liu		
	VP	US-20160192705-A1	07-07-2016	BORKOVEC et al.		
	VQ	US-20160192706-A1	07-07-2016	Kananen		
	VR	US-20160198765-A1	07-14-2016	Liu		
	VS	US-20160198766-A1	07-14-2016	Liu		
	VT	US-20160198767-A1	07-14-2016	Verleur		
	VU	US-20160198768-A1	07-14-2016	Liu		

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	VV	US-20160198769-A1	07-14-2016	Liu	
	VW	US-20160198770-A1	07-14-2016	Alarcon	
	VX	US-20160205999-A1	07-21-2016	LIU	
	VY	US-20160206000-A1	07-21-2016	Lord et al.	
	VZ	US-20160211693-A1	07-21-2016	STEVENS et al.	
	WA	US-20160213061-A1	07-28-2016	Liu	
	WB	US-20160213066-A1	07-28-2016	Zitzke et al.	
	WC	US-20160213067-A1	07-28-2016	Hon	
	WD	US-20160219938-A1	08-04-2016	MAMOUN et al.	
	WE	US-20160227840-A1	08-11-2016	XIANG	
	WF	US-20160227842-A1	08-11-2016	XIANG	
	WG	US-20160235119-A1	08-18-2016	LIU	
	WH	US-20160235120-A1	08-18-2016	Liu	
	WI	US-20160235121-A1	08-18-2016	ROGAN et al.	
	WJ	US-20160235125-A1	08-18-2016	Safari	
	WK	US-20160242463-A1	08-25-2016	LIU	
	WL	US-20160242464-A1	08-25-2016	LIU	
	WM	US-20160242465-A1	08-25-2016	ZHENG et al.	
	WN	US-20160242466-A1	08-25-2016	Lord et al.	
	WO	US-20160242468-A1	08-25-2016	LIU	
	WP	US-20160249680-A1	09-01-2016	LIU	
	WQ	US-20160249682-A1	09-01-2016	LEADLEY et al.	
	WR	US-20160262449-A1	09-15-2016	Liu	
	WS	US-20160262450-A1	09-15-2016	Liu	
	WT	US-20160262451-A1	09-15-2016	LIU	
	WU	US-20160262452-A1	09-15-2016	Zhu	
	WV	US-20160262459-A1	09-15-2016	MONSEES et al.	
	WW	US-20160270442-A1	09-22-2016	Liu	
	WX	US-20160270443-A1	09-22-2016	LIU	
	WY	US-20160270444-A1	09-22-2016	Lin	
	WZ	US-20160270445-A1	09-22-2016	Liu	
	XA	US-20160278163-A1	09-22-2016	Chen	
	XB	US-20160278431-A1	09-29-2016	Liu	
	XC	US-20160278432-A1	09-29-2016	Liu	
	XD	US-20160278433-A1	09-29-2016	Xiang	
	XE	US-20160278434-A1	09-29-2016	LIU	
	XF	US-20160278435-A1	09-29-2016	CHOUKROUN et al.	
	XG	US-20160278436-A1	09-29-2016	Verleur et al.	
	XH	US-20160285983-A1	09-29-2016	Liu	
	XI	US-20160286856-A1	10-06-2016	Liu	
	XJ	US-20160286858-A1	10-06-2016	Liu	
	XK	US-20160286859-A1	10-06-2016	LIU	
	XL	US-20160286862-A1	10-06-2016	Silvetrini	
	XM	US-20160286863-A1	10-06-2016	Lin	
	XN	US-20160286864-A1	10-06-2016	LIN	
	XO	US-20160286865-A1	10-06-2016	KING et al.	

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	XP	US-20160295917-A1	10-13-2016	MALGAT et al.		
	XQ	US-20160295918-A1	10-13-2016	LIU		
	XR	US-20160295922-A1	10-13-2016	John et al.		
	XS	US-20160295923-A1	10-13-2016	LIN		
	XT	US-20160295924-A1	10-13-2016	Liu		
	XU	US-20160295926-A1	10-13-2016	ZUBER		
	XV	US-20160302485-A1	10-20-2016	ALIMA		
	XW	US-20160309779-A1	10-27-2016	Liu		
	XX	US-20160309783-A1	10-27-2016	HOPPS et al.		
	XY	US-20160309784-A1	10-27-2016	SILVESTRINI et al.		
	XZ	US-20160309789-A1	10-27-2016	Thomas, JR.		
	YA	US-20160316818-A1	11-03-2016	LIU		
	YB	US-20160316820-A1	11-03-2016	Liu		
	YC	US-20160316821-A1	11-03-2016	LIU		
	YD	US-20160316822-A1	11-03-2016	LIU		
	YE	US-20160324213-A1	11-10-2016	LIU		
	YF	US-20160324215-A1	11-10-2016	MIRONOV et al.		
	YG	US-20160324218-A1	11-10-2016	Wang et al.		
	YH	US-20160331032-A1	11-17-2016	MALGAT et al.		
	YI	US-20160331033-A1	11-17-2016	HOPPS et al.		
	YJ	US-20160331038-A1	11-17-2016	FARINE et al.		
	YK	US-20160331039-A1	11-17-2016	THORENS et al.		
	YL	US-20160331040-A1	11-17-2016	NAKANO et al.		
	YM	US-20160338402-A1	11-24-2016	BUEHLER et al.		
	YN	US-20160338405-A1	11-24-2016	Liu		
	YO	US-20160338406-A1	11-24-2016	Liu		
	YP	US-20160338411-A1	11-24-2016	Liu		
	YQ	US-20160338412-A1	11-24-2016	MONSEES et al.		
	YR	US-20160345625-A1	12-01-2016	LIU		
	YS	US-20160345627-A1	12-01-2016	Liu		
	YT	US-20160345630-A1	12-01-2016	MIRONOV et al.		
	YU	US-20160345631-A1	12-01-2016	MONSEES et al.		
	YV	US-20160345633-A1	12-01-2016	DePiano et al.		
	YW	US-20160345634-A1	12-01-2016	Fernando et al.		
	YX	US-20160345636-A1	12-01-2016	LIU		
	YY	US-20160353798-A1	12-08-2016	LIU		
	YZ	US-20160360784-A1	12-15-2016	LIU		
	ZA	US-20160360792-A1	12-15-2016	LIU		
	ZB	US-20160360793-A1	12-15-2016	LIU		
	ZC	US-20160366927-A1	12-22-2016	LIU		
	ZD	US-20160366935-A1	12-22-2016	LIU		
	ZE	US-20160366936-A1	12-22-2016	LIU		
	ZF	US-20160366937-A1	12-22-2016	LIU		
	ZG	US-20160366939-A1	12-22-2016	Alarcon et al.		
	ZH	US-20160366940-A1	12-22-2016	Liu		
	ZI	US-20160366941-A1	12-22-2016	Lin		

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	ZJ	US-20160366942-A1	12-22-2016	Liu	
	ZK	US-20160366947-A1	12-22-2016	MONSEES et al.	
	ZL	US-20160371437-A1	12-22-2016	Alarcon et al.	
	ZM	US-20160374391-A1	12-29-2016	LIU	
	ZN	US-20160374392-A1	12-29-2016	Liu	
	ZO	US-20160374393-A1	12-29-2016	CHEN	
	ZP	US-20160374398-A1	12-29-2016	AMIR	
	ZQ	US-20160374399-A1	12-29-2016	MONSEES et al.	
	ZR	US-20160374400-A1	12-29-2016	MONSEES et al.	
	ZS	US-20160374401-A1	12-29-2016	LIU	
	ZT	US-2017/0197046-A1	07-13-2017	BUCHBERGER	
	ZU	US-20170006916-A1	01-12-2017	LIU	
	ZV	US-20170006919-A1	01-12-2017	Liu	
	ZW	US-20170006920-A1	01-12-2017	Liu	
	ZX	US-20170006921-A1	01-12-2017	LEMAY et al.	
	ZY	US-20170013882-A1	01-19-2017	LIU	
	ZZ	US-20170013885-A1	01-19-2017	QIU	
		US-20170019951-A1	01-19-2017	LOUVEAU et al.	
		US-20170020194-A1	01-26-2017	REHDERS	
		US-20170020201-A1	01-26-2017	XIANG	
		US-20170027221-A1	02-02-2017	LIU	
		US-20170027233-A1	02-02-2017	MIRONOV	
		US-20170027234-A1	02-02-2017	FARINE et al.	
		US-20170033568-A1	02-02-2017	HOLZHERR	
		US-20170035101-A1	02-09-2017	Balder	
		US-20170035109-A1	02-09-2017	LIU	
		US-20170035111-A1	02-09-2017	Slurink et al.	
		US-20170035114-A1	02-09-2017	LORD	
		US-20170035115-A1	02-09-2017	MONSEES et al.	
		US-20170035117-A1	02-09-2017	Lin	
		US-20170035118-A1	02-09-2017	Liu	
		US-20170042229-A1	02-16-2017	LIU	
		US-20170042242-A1	02-16-2017	HON	
		US-20170042243-A1	02-16-2017	PLOJOUX et al.	
		US-20170042247-A1	02-16-2017	XIANG	
		US-20170042248-A1	02-16-2017	XIANG	
		US-20170049149-A1	02-23-2017	Carty	
		US-20170049152-A1	02-23-2017	LIU	
		US-20170049154-A1	02-23-2017	BATISTA	
		US-20170049155-A1	02-23-2017	LIU	
		US-20170055586-A1	03-02-2017	LIU	
		US-20170055589-A1	03-02-2017	FERNANDO et al.	
		US-20170064999-A1	03-09-2017	PEREZ et al.	
		US-20170065000-A1	03-09-2017	Sears et al.	
		US-20170071252-A1	03-16-2017	Liu	
		US-20170071256-A1	03-16-2017	VERLEUR et al.	

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		US-20170071257-A1	03-16-2017	Lin	
		US-20170079110-A1	03-16-2017	Plattner	
		US-20170079329-A1	03-23-2017	ZITZKE	
		US-20170079330-A1	03-23-2017	MIRONOV et al.	
		US-20170079331-A1	03-23-2017	MONSEES et al.	
		US-20170086498-A1	03-30-2017	DARYANI	
		US-20170086502-A1	03-30-2017	HEARN et al.	
		US-20170094998-A1	04-06-2017	BERNAUER et al.	
		US-20170094999-A1	04-06-2017	HEARN et al.	
		US-20170095000-A1	04-06-2017	Spirito et al.	
		US-20170095001-A1	04-06-2017	Liu	
		US-20170095002-A1	04-06-2017	SILVESTRINI	
		US-20170095003-A1	04-06-2017	MIRONOV	
		US-20170095004-A1	04-06-2017	LIU	
		US-20170095005-A1	04-06-2017	MONSEES et al.	
		US-20170099880-A1	04-13-2017	HAWES	
		US-20170105449-A1	04-20-2017	HEARN et al.	
		US-20170105450-A1	04-20-2017	REED et al.	
		US-20170105452-A1	04-20-2017	MIRONOV et al.	
		US-20170109877-A1	04-20-2017	PELEG et al.	
		US-20170112197-A1	04-27-2017	LI et al.	
		US-20170113819-A1	04-27-2017	Marz	
		US-20170119055-A1	05-04-2017	LIU	
		US-20170119057-A1	05-04-2017	Liu	
		US-20170127724-A1	05-11-2017	LIU	
		US-20170127726-A1	05-11-2017	XIANG	
		US-20170135400-A1	05-18-2017	Liu	
		US-20170135401-A1	05-18-2017	DICKENS	
		US-20170135402-A1	05-18-2017	ZITZKE	
		US-20170135403-A1	05-18-2017	LIU	
		US-20170143038-A1	05-25-2017	DICKENS	
		US-20170143040-A1	05-25-2017	LIU	
		US-20170143043-A1	05-25-2017	LIU	
		US-20170143917-A1	05-25-2017	Cohen et al.	
		US-20170150754-A1	06-01-2017	Lin	
		US-20170150755-A1	06-01-2017	BATISTA	
		US-20170156400-A1	06-08-2017	Liu	
		US-20170156401-A1	06-08-2017	LIU	
		US-20170156402-A1	06-08-2017	LIU	
		US-20170156403-A1	06-08-2017	Gill et al.	
		US-20170156404-A1	06-08-2017	Novak, III et al.	
		US-20170162979-A1	06-08-2017	Liu	
		US-20170164655-A1	06-15-2017	CHEN	
		US-20170164658-A1	06-15-2017	Lin et al.	
		US-20170172207-A1	06-22-2017	Liu	
		US-20170172213-A1	06-22-2017	Hon	

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		US-20170181468-A1	06-29-2017	BOWEN et al.	
		US-20170188629-A1	07-06-2017	DICKENS et al.	
		US-20170188632-A1	07-06-2017	HON	
		US-20170188634-A1	07-06-2017	PLOJOUX et al.	
		US-20170196264-A1	07-13-2017	Liu	
		US-20170196265-A1	07-13-2017	Liu	
		US-20170196267-A1	07-13-2017	Zou et al.	
		US-20170196271-A1	07-13-2017	LEVITZ et al.	
		US-20170202267-A1	07-20-2017	Liu	
		US-20170208866-A1	07-27-2017	Liu	
		US-20170208870-A1	07-27-2017	LIU	
		US-20170215476-A1	08-03-2017	DICKENS et al.	
		US-20170215484-A1	08-03-2017	XIANG	
		US-20170215485-A1	08-03-2017	ZITZKE	
		US-20170224014-A1	08-10-2017	FRASER	
		US-20170231281-A1	08-17-2017	HATTON et al.	
		US-20170231282-A1	08-17-2017	BOWEN et al.	
		US-20170231284-A1	08-17-2017	NEWNS	
		US-20170231286-A1	08-17-2017	BORKOVEC et al.	
		US-20170233114-A1	08-17-2017	CHRISTENSEN et al.	
		US-20170238611-A1	08-24-2017	BUCHBERGER	
		US-20170238612-A1	08-24-2017	DARYANI et al.	
		US-20170238613-A1	08-24-2017	SUESS et al.	
		US-20170245554-A1	08-31-2017	Perez et al.	
		US-20170250552-A1	08-31-2017	Liu	
		US-20170251719-A1	09-07-2017	Cyphert et al.	
		US-20170251725-A1	09-07-2017	BUCHBERGER et al.	
		US-20170251726-A1	09-07-2017	Nielsen	
		US-20170251727-A1	09-07-2017	Nielsen	
		US-20170251728-A1	09-07-2017	PELEG et al.	
		US-20170258143-A1	09-14-2017	LEDERER	
		US-20170273358-A1	09-28-2017	BATISTA et al.	
		US-20170273359-A1	09-28-2017	Liu	
		US-20170290373-A1	10-12-2017	Hon	
		US-20170290998-A1	10-12-2017	Poston et al.	
		US-20170295846-A1	10-19-2017	Liu	
		US-20170295847-A1	10-19-2017	Liu	
		US-20170295848-A1	10-19-2017	LaMothe	
		US-20170295849-A1	10-19-2017	CADIEUX et al.	
		US-20170311648-A1	11-02-2017	Gill et al.	
		US-20170318860-A1	11-09-2017	ADAIR	
		US-20170325503-A1	11-16-2017	Liu	
		US-20170325504-A1	11-16-2017	Liu	
		US-20170347706-A1	12-07-2017	AOUN et al.	
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		US-20180070649-A1	03-15-2018	Monsees et al.	
		US-20180092399-A1	04-05-2018	KIESLICH	
		US-20180103686-A1	04-19-2018	Monsees et al.	
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		US-3,258,015	06-28-1966	Ellis et al.	
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		US-5,372,148	12-13-1994	McCafferty et al.	
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		US-6,040,560	03-21-2000	Fleischhauer et al.	
		US-6,125,853	10-03-2000	Susa et al.	
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		US-6,501,052	12-31-2002	Cox et al.	
		US-6,603,924	08-05-2003	Brown et al.	
		US-6,701,921	03-09-2004	Sprinkel, Jr. et al.	
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		US-7,832,410	11-16-2010	Hon	
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		US-8,205,622-B2	06-26-2012	Pan	
		US-8,251,060	08-28-2012	White et al.	
		US-8,322,350	12-04-2012	Lipowicz	
		US-8,365,742	02-05-2013	Hon	
		US-8,375,957	02-19-2013	Hon	
		US-8,393,331-B2	03-12-2013	Hon	
		US-8,402,976	03-26-2013	Fernando et al.	
		US-8,479,747-B2	07-09-2013	O'Connell	
		US-8,490,628	07-23-2013	Hon	
		US-8,495,998-B2	07-30-2013	Schennum	
		US-8,499,766-B1	08-06-2013	Newton	
		US-8,511,318	08-20-2013	Hon	
		US-8,539,959	09-24-2013	Scatterday	
		US-8,550,069	10-08-2013	Alelov	
		US-8,578,942-B2	11-12-2013	Schennum	
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		US-8,689,805-B2	04-08-2014	Hon	
		US-8,707,965	04-29-2014	Newton	
		US-8,714,150-B2	05-06-2014	Alelov	
		US-8,714,161-B2	05-06-2014	Liu	
		US-8,752,545-B2	06-17-2014	Buchberger	
		US-8,752,557-B2	06-17-2014	Lipowicz	
		US-8,757,169-B2	06-24-2014	Gysland	
		US-8,770,187-B2	07-08-2014	Murphy	
		US-8,781,307-B2	07-15-2014	Buzzetti	
		US-8,794,231-B2	08-05-2014	Thorens et al.	
		US-8,813,759-B1	08-26-2014	Horian	
		US-8,820,330	09-02-2014	Bellinger et al.	
		US-8,851,068-B2	10-07-2014	Cohen et al.	
		US-8,851,081	10-07-2014	Fernando et al.	
		US-8,857,446-B2	10-14-2014	Wu	
		US-8,863,752-B2	10-21-2014	Hon	
		US-8,881,737	11-11-2014	Collett et al.	
		US-8,893,726-B2	11-25-2014	Hon	
		US-8,897,628	11-25-2014	Conley et al.	
		US-8,899,239	12-02-2014	Hon	
		US-8,899,240	12-02-2014	Mass	
		US-8,905,040	12-09-2014	Scatterday et al.	
		US-8,910,639-B2	12-16-2014	Chang et al.	
		US-8,910,640-B2	12-16-2014	Sears et al.	
		US-8,910,641-B2	12-16-2014	Hon	
		US-8,915,254	12-23-2014	Monsees et al.	
		US-8,925,555	01-06-2015	Monsees et al.	
		US-8,931,492	01-13-2015	Scatterday	
		US-8,948,578	02-03-2015	Buchberger	
		US-8,950,395-B2	02-10-2015	Schennum	
		US-8,955,522-B1	02-17-2015	Bowen et al.	
		US-8,975,764-B1	03-10-2015	Abehasera	
		US-8,991,402	03-31-2015	Bowen et al.	
		US-9,004,073	04-14-2015	Tucker et al.	
		US-9,010,335	04-21-2015	Scatterday	
		US-9,016,274-B1	04-28-2015	White	
		US-9,022,026-B2	05-05-2015	Fang	
		US-9,038,642-B2	05-26-2015	Liu	
		US-9,046,278	06-02-2015	Koller	
		US-9,055,617-B2	06-09-2015	Thorens et al.	
		US-9,055,770-B2	06-16-2015	Liu	
		US-9,060,388-B2	06-16-2015	Liu	
		US-9,060,548-B2	06-23-2015	Zheng et al.	
		US-9,072,322-B2	07-07-2015	Liu	
		US-9,078,472-B2	07-14-2015	Liu	
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		US-9,078,474-B2	07-14-2015	Thompson	
		US-9,078,475-B2	07-14-2015	Li et al.	
		US-9,089,168-B2	07-28-2015	Liu	
		US-9,095,175	08-04-2015	Terry et al.	
		US-9,101,729-B2	08-11-2015	Liu	
		US-9,113,659-B2	08-25-2015	Liu	
		US-9,131,733-B2	09-15-2015	Liu	
		US-9,155,336	10-13-2015	Liu	
		US-9,167,852	10-27-2015	Xiu	
		US-9,185,937	11-17-2015	Liu	
		US-9,197,726	11-24-2015	Stanimirovic et al.	
		US-9,198,463	12-01-2015	Liu	
		US-9,198,464	12-01-2015	Liu	
		US-9,198,466	12-01-2015	Liu	
		US-9,204,670	12-08-2015	Liu	
		US-9,215,895	12-22-2015	Bowen et al.	
		US-9,220,302	12-29-2015	DePiano et al.	
		US-9,220,303	12-29-2015	Li et al.	
		US-9,220,304	12-29-2015	Greim	
		US-9,226,525	01-05-2016	Liu	
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		US-9,247,773	02-02-2016	Memari et al.	
		US-9,254,002	02-09-2016	Chong et al.	
		US-9,254,007	02-09-2016	Liu	
		US-9,271,529	03-01-2016	Alima	
		US-9,277,768	03-08-2016	Xiu	
		US-9,277,769	03-08-2016	Liu	
		US-9,282,772	03-15-2016	Tucker et al.	
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		US-9,289,014	03-22-2016	Tucker et al.	
		US-9,295,286	03-29-2016	Shin	
		US-9,301,549	04-05-2016	Liu	
		US-9,308,336	04-12-2016	Newton	
		US-9,312,687	04-12-2016	Xiang	
		US-9,315,890	04-19-2016	Frick et al.	
		US-9,320,300	04-26-2016	Hon	
		US-9,326,547	05-03-2016	Tucker et al.	
		US-9,326,549	05-03-2016	Hon	
		US-9,332,787	05-10-2016	Liu	
		US-9,345,269	05-24-2016	Liu	
		US-9,350,102	05-24-2016	Wu	
		US-9,351,522	05-31-2016	Safari	
		US-9,364,025	06-14-2016	Liu	
		US-9,364,027	06-14-2016	Hon	
		US-9,364,800	06-14-2016	Dubief	
		US-9,379,364	06-28-2016	Alima	

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		US-9,380,812	07-05-2016	Chung	
		US-9,408,416	08-09-2016	Monsees et al.	
		US-9,414,627	08-16-2016	Liu	
		US-9,414,628	08-16-2016	Liu	
		US-9,420,831	08-23-2016	Liu	
		US-9,427,022	08-30-2016	Levin et al.	
		US-9,427,023	08-30-2016	Liu	
		US-9,427,024	08-30-2016	Liu	
		US-9,427,025	08-30-2016	Liu	
		US-9,427,026	08-30-2016	Wu	
		US-9,439,455	09-13-2016	Alarcon et al.	
		US-9,439,456	09-13-2016	Liu	
		US-9,440,035	09-13-2016	Chung	
		US-9,451,790	09-27-2016	Liu	
		US-9,451,793	09-27-2016	Zhou	
		US-9,456,632	10-04-2016	Hon	
		US-9,456,633	10-04-2016	Liu	
		US-9,459,021	10-04-2016	Greim et al.	
		US-9,462,832	10-11-2016	Lord	
		US-9,474,305	10-25-2016	Liu	
		US-9,480,285	11-01-2016	Liu	
		US-9,480,286	11-01-2016	Liu	
		US-9,497,994	11-22-2016	Liu	
		US-9,497,995	11-22-2016	Liu	
		US-9,497,997	11-22-2016	Wu	
		US-9,497,998	11-22-2016	Chen	
		US-9,497,999	11-22-2016	Lord	
		US-9,504,279	11-29-2016	Chen	
		US-9,510,624	12-06-2016	Li et al.	
		US-9,516,898	12-13-2016	Liu	
		US-9,521,867	12-20-2016	Xiang	
		US-9,526,272	12-27-2016	Liu	
		US-9,526,273	12-27-2016	Liu	
		US-9,532,598	01-03-2017	Liu	
		US-9,532,599	01-03-2017	Liu	
		US-9,532,601	01-03-2017	Liu	
		US-9,532,602	01-03-2017	Liu	
		US-9,532,604	01-03-2017	Conley et al.	
		US-9,538,781	01-10-2017	Zheng	
		US-9,538,787	01-10-2017	Liu	
		US-9,538,789	01-10-2017	Liu	
		US-9,549,572	01-24-2017	Dincer et al.	
		US-9,549,573	01-24-2017	Monsees et al.	
		US-9,554,596	01-31-2017	Liu	
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		US-9,555,203	01-31-2017	Terry et al.	

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		US-9,560,882	02-07-2017	Xiang	
		US-9,572,372	02-21-2017	Liu	
		US-9,572,373	02-21-2017	Chen	
		US-9,572,374	02-21-2017	Gabbay	
		US-9,578,898	02-28-2017	Liu	
		US-9,591,876	03-14-2017	Alima	
		US-9,596,881	03-21-2017	Chiolini et al.	
		US-9,596,884	03-21-2017	Liu	
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		US-9,596,886	03-21-2017	Liu	
		US-9,596,887	03-21-2017	Newton	
		US-9,603,198	03-21-2017	Liu	
		US-9,603,386	03-28-2017	Xiang	
		US-9,603,387	03-28-2017	Liu	
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	GG	WO-2015066927-A1	05-14-2015	Kimree Hi Tech Inc		

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(Based on PTO 11-07 version)

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	16/119,359
				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
Sheet	31	of	36	Attorney Docket Number	055755-402C02US

	GH	WO-2015070398-A1	05-21-2015	Kimree Hi Tech Inc		
	GI	WO-2015070405-A1	05-21-2015	Kimree Hi Tech Inc		
	GJ	WO-2015071703-A1	05-21-2015	Chen, Leon		
	GK	WO-2015073564-A1	05-21-2015	Vmr Products, LLC		
	GL	WO-2015074187-A1	05-28-2015	Kimree Hi Tech Inc		
	GM	WO-2015074265-A1	05-28-2015	Kimree Hi Tech Inc		
	GN	WO-2015077998-A1	06-04-2015	Kimree Hi Tech Inc		
	GO	WO-2015077999-A1	06-04-2015	Kimree Hi Tech Inc		
	GP	WO-2015078010-A1	06-04-2015	Kimree Hi Tech Inc		
	GQ	WO-2015079197-A1	06-04-2015	Twenty Sixteen 2016 Pharma Ltd		
	GR	WO-2015082560-A1	06-11-2015	Philip Morris Products SA		
	GS	WO-2015089711-A1	06-25-2015	Kimree Hi Tech Inc		
	GT	WO-2015106434-A1	07-23-2015	Kimree Hi Tech Inc		
	GU	WO-2015106440-A1	07-23-2015	Shenzhen Smoore Technology Ltd		
	GV	WO-2015107552-A1	07-23-2015	Godfrey Phillips India Ltd		
	GW	WO-2015109476-A1	07-30-2015	Shenzhen Kanger Technology Co., Ltd		
	GX	WO-2015109532-A1	07-30-2015	Kimree Hi Tech Inc		
	GY	WO-2015109540-A1	07-30-2015	Kimree Hi Tech Inc		
	GZ	WO-2015109618-A1	07-30-2015	Kimree Hi Tech Inc		
	HA	WO-2015117285-A1	08-13-2015	Kimree Hi Tech Inc		
	HB	WO-2015120588-A1	08-20-2015	Kimree Hi Tech Inc		
	HC	WO-2015120591-A1	08-20-2015	Kimree Hi Tech Inc		
	HD	WO-2015120623-A1	08-20-2015	Kimree Hi Tech Inc		
	HE	WO-2015123831-A1	08-27-2015	Kimree Hi Tech Inc		
	HF	WO-2015128499-A1	09-03-2015	Xeo Holding GmbH		
	HG	WO-2015137815-A1	09-17-2015	Kyriakopoulos, Dimitri		
	HH	WO-2015143637-A1	10-01-2015	Kimree Hi Tech Inc		
	HI	WO-2015143648-A1	10-01-2015	Shenzhen Kanger Technology Co Ltd		
	HJ	WO-2015143749-A1	10-01-2015	Kimree Hi Tech Inc		
	HK	WO-2015143765-A1	10-01-2015	Shenzhen L Rider Tehcnology Co Ltd		
	HL	WO-2015144057-A1	10-01-2015	Kimree Hi Tech Inc		
	HM	WO-2015149311-A1	10-08-2015	Kimree Hi Tech Inc		
	HN	WO-2015149330-A1	10-08-2015	Kimree Hi Tech Inc		
	HO	WO-2015149332-A1	10-08-2015	Kimree Hi Tech Inc		
	HP	WO-2015149338-A1	10-08-2015	Kimree Hi Tech Inc		
	HQ	WO-2015149368-A1	10-08-2015	Liu, Shuigen		
	HR	WO-2015149403-A1	10-08-2015	Kimree Hi Tech Inc		

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				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
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	HS	WO-2015149406-A1	10-08-2015	Kimree Hi Tech Inc		
	HT	WO-2015154309-A1	10-15-2015	Shenzhen Kanger Technology Co Ltd		
	HU	WO-2015154619-A1	10-15-2015	Lin, Guangrong		
	HV	WO-2015157891-A1	10-22-2015	Kimree Hi Tech Inc		
	HW	WO-2015157893-A1	10-22-2015	Kimree Hi Tech Inc		
	HX	WO-2015157900-A1	10-22-2015	Kimree Hi Tech Inc		
	HY	WO-2015157901-A1	10-22-2015	Kimree Hi Tech Inc		
	HZ	WO-2015157928-A1	10-22-2015	Kimree Hi Tech Inc		
	IA	WO-2015158522-A1	10-22-2015	Hauni Maschinenbau AG		
	IB	WO-2015158548-A1	10-22-2015	Hauni Maschinenbau AG		
	IC	WO-2015161406-A1	10-29-2015	Kimree Hi Tech Inc		
	ID	WO-2015161407-A1	10-29-2015	Kimree Hi Tech Inc		
	IE	WO-2015161553-A1	10-29-2015	Kimree Hi Tech Inc		
	IF	WO-2015161555-A1	10-29-2015	Kimree Hi Tech Inc		
	IG	WO-2015161557-A1	10-29-2015	Kimree Hi Tech Inc		
	IH	WO-2015165067-A1	11-05-2015	Kimree Hi Tech Inc		
	II	WO-2015165081-A1	11-05-2015	Kimree Hi Tech Inc		
	IJ	WO-2015165083-A1	11-05-2015	Kimree Hi Tech Inc		
	IK	WO-2015165086-A1	11-05-2015	Kimree Hi Tech Inc		
	IL	WO-2015165146-A1	11-05-2015	Kimree Hi Tech Inc		
	IM	WO-2015168827-A1	11-12-2015	Kimree Hi Tech Inc		
	IN	WO-2015168828-A1	11-12-2015	Kimree Hi Tech Inc		
	IO	WO-2015168853-A1	11-12-2015	Kimree Hi Tech Inc		
	IP	WO-2015168904-A1	11-12-2015	Kimree Hi Tech Inc		
	IQ	WO-2015168912-A1	11-12-2015	Kimree Hi Tech Inc		
	IR	WO-2015172331-A1	11-19-2015	Kimree Hi Tech Inc		
	IS	WO-2015172361-A1	11-19-2015	Kimree Hi Tech Inc		
	IT	WO-2015172368-A1	11-19-2015	Kimree Hi Tech Inc		
	IU	WO-2015174657-A1	11-19-2015	Shin, Jong-soo		
	IV	WO-2015174708-A1	11-19-2015	Lee, Chung Eon		
	IW	WO-2015176210-A1	11-26-2015	Kimree Hi Tech Inc		
	IX	WO-2015176230-A1	11-26-2015	Kimree Hi Tech Inc		
	IY	WO-2015176300-A1	11-26-2015	Kimree Hi Tech Inc		
	IZ	WO-2015176580-A1	11-26-2015	Lin, Guangrong		
	JA	WO-2015180027-A1	12-03-2015	Kimree Hi Tech Inc		
	JB	WO-2015180061-A1	12-03-2015	Kimree Hi Tech Inc		
	JC	WO-2015180062-A1	12-03-2015	Kimree Hi Tech Inc		
	JD	WO-2015180071-A1	12-03-2015	Kimree Hi Tech Inc		
	JE	WO-2015180088-A1	12-03-2015	Kimree Hi Tech Inc		
	JF	WO-2015180089-A1	12-03-2015	Kimree Hi Tech Inc		
	JG	WO-2015184590-A1	12-10-2015	Kimree Hi Tech Inc		

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				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
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Sheet	33	of	36	Attorney Docket Number	055755-402C02US

	JH	WO-2015184620-A1	12-10-2015	Kimree Hi Tech Inc		
	JI	WO-2015184747-A1	12-10-2015	Wang, Xiaoqiong		
	JJ	WO-2015188295-A1	12-17-2015	Carolines 1 Ltd		
	JK	WO-2015188296-A1	12-17-2015	Carolines 1 Ltd		
	JL	WO-2015189613-A1	12-17-2015	Fox, Antony		
	JM	WO-2015190810-A1	12-17-2015	Hwang, Il-young		
	JN	WO-2015192301-A1	12-23-2015	Kimree Hi Tech Inc		
	JO	WO-2015192326-A1	12-23-2015	Kimree Hi Tech Inc		
	JP	WO-2015192336-A1	12-23-2015	Kimree Hi Tech Inc		
	JQ	WO-2015192337-A1	12-23-2015	Kimree Hi Tech Inc		
	JR	WO-2015192377-A1	12-23-2015	Huizhou Kimree Technology Co Ltd		
	JS	WO-2015193456-A1	12-23-2015	Oglesby, Ciaran		
	JT	WO-2015196331-A1	12-30-2015	Huizhou Kimree Technology Co Ltd		
	JU	WO-2015196332-A1	12-30-2015	Huizhou Kimree Technology Co Ltd		
	JV	WO-2015196357-A1	12-30-2015	Shenzhen Smoore Technology Ltd		
	JW	WO-2015196367-A1	12-30-2015	O Net Automation Technology Shenzhen Ltd		
	JX	WO-2015196463-A1	12-30-2015	Huizhou Kimree Technology Co Ltd		
	JY	WO-2016000113-A1	01-07-2016	Huizhou Kimree Technology Co Ltd		
	JZ	WO-2016000130-A1	01-07-2016	Shenzhen Smoore Technology Ltd		
	KA	WO-2016000136-A1	01-07-2016	Kimree Hi Tech Inc		
	KB	WO-2016000139-A1	01-07-2016	Shenzhen Smoore Technology Ltd		
	KC	WO-2016000206-A1	01-07-2016	Huizhou Kimree Technology Co Ltd		
	KD	WO-2016000207-A1	01-07-2016	Huizhou Kimree Technology Co Ltd		
	KE	WO-2016000214-A1	01-07-2016	Liu, Qiuming		
	KF	WO-2016000232-A1	01-07-2016	Liu, Qiuming		
	KG	WO-2016000233-A1	01-07-2016	Liu, Qiuming		
	KH	WO-2016000305-A1	01-07-2016	Shenzhen Tianjin E Cigarette Technology Co Ltd		
	KI	WO-2016008067-A1	01-21-2016	Huizhou Kimree Technology Co Ltd		
	KJ	WO-2016008096-A1	01-21-2016	Huizhou Kimree Technology Co Ltd		

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				Application Number	16/119,359
				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
Sheet	34	of	36	Attorney Docket Number	055755-402C02US

	KK	WO-2016008217-A1	01-21-2016	Shenzhen Kanger Technology Co., Ltd		
	KL	WO-2016009202-A1	01-21-2016	Cambridge Design Partnership Llp		
	KM	WO-2016015196-A1	02-04-2016	Liu, Shuigen		
	KN	WO-2016015246-A1	02-04-2016	Huizhou Kimree Technology Co Ltd		
	KO	WO-2016015264-A1	02-04-2016	Huizhou Kimree Technology Co Ltd		
	KP	WO-2016019353-A1	02-04-2016	Mjar Holdings, LLC		
	KQ	WO-2016019508-A1	02-11-2016	Liu, Qiuming		
	KR	WO-2016019550-A1	02-11-2016	Huizhou Kimree Technology Co Ltd		
	KS	WO-2016023181-A1	02-18-2016	Huizhou Kimree Technology Co Ltd		
	KT	WO-2016023182-A1	02-18-2016	Huizhou Kimree Technology Co Ltd		
	KU	WO-2016023183-A1	02-18-2016	Huizhou Kimree Technology Co Ltd		
	KV	WO-2016023212-A1	02-18-2016	Huizhou Kimree Technology Co Ltd		
	KW	WO-2016023824-A1	02-18-2016	Essentra Filter Products Dev Co Pte Ltd		
	KX	WO-2016026104-A1	02-25-2016	Huizhou Kimree Technology Co Ltd		
	KY	WO-2016026156-A1	02-25-2016	Huizhou Kimree Technology Co Ltd		
	KZ	WO-2016029344-A1	03-03-2016	Huizhou Kimree Technology Co Ltd		
	LA	WO-2016029386-A1	03-03-2016	Dong, Shenen		
	LB	WO-2016029389-A1	03-03-2016	Dong, Shenen		
	LC	WO-2016029468-A1	03-03-2016	Shenzhen Smoore Technology Ltd		
	LD	WO-2016029470-A1	03-03-2016	Shenzhen Smoore Technology Ltd		
	LE	WO-2016029473-A1	03-03-2016	Shenzhen Smoore Technology Ltd		
	LF	WO-2016029567-A1	03-03-2016	Shenzhen Bauway Technology Ltd		
	LG	WO-2016033721-A1	03-10-2016	Huizhou Kimree Technology Co Ltd		
	LH	WO-2016033734-A1	03-10-2016	Shenzhen Smoore Technology Ltd		

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				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
Sheet	35	of	36	Attorney Docket Number	055755-402C02US

	LI	WO-2016034100-A1	03-10-2016	Usa Hooton Vapocikar Technology Hk Co Ltd		
	LJ	WO-2016036236-A3	07-21-2016	Nvention B V I		
	LK	WO-2016041114-A1	03-24-2016	Huizhou Kimree Technology Co., Ltd		
	LL	WO-2016041140-A1	03-24-2016	Huizhou Kimree Technology Co.,ltd		
	LM	WO-2016041141-A1	03-24-2016	Huizhou Kimree Technology Co Ltd		
	LN	WO-2016041207-A1	03-24-2016	Huizhou Kimree Technology Co Ltd		
	LO	WO-2016041209-A1	03-24-2016	Huizhou Kimree Technology Co Ltd		
	LP	WO-2016045058-A1	03-31-2016	Huizhou Kimree Technology Co Ltd		
	LQ	WO-2016049822-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	LR	WO-2016049823-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	LS	WO-2016049855-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	LT	WO-2016049863-A1	04-07-2016	Huizhou Kimree Technology Co Ltd		
	LU	WO-2016050246-A1	04-07-2016	Fertin Pharma As		
	LV	WO-2016050247-A1	04-07-2016	Fertin Pharma As		
	LW	WO-2016054793-A1	04-14-2016	Huizhou Kimree Technology Co Ltd		
	LX	WO-2016058139-A1	04-21-2016	Huizhou Kimree Technology Co Ltd		
	LY	WO-2016058187-A1	04-21-2016	Shenzhen Smoore Technology Ltd		
	LZ	WO-2016061729-A1	04-28-2016	Shenzhen Smoore Technology Ltd		
	MA	WO-2016061730-A1	04-28-2016	Shenzhen Smoore Technology Ltd		
	MB	WO-2016061822-A1	04-28-2016	Huizhou Kimree Technology Co Ltd		
	MC	WO-2016061859-A1	04-28-2016	Zhu, Xiaochun		
	MD	WO-2016062168-A1	04-28-2016	Lin, Guangrong		
	ME	WO-2016065520-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	MF	WO-2016065521-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		

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				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
(Use as many sheets as necessary)				Examiner Name	M. M. Ahmed
Sheet	36	of	36	Attorney Docket Number	055755-402C02US

	MG	WO-2016065532-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	MH	WO-2016065533-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	MI	WO-2016065596-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	MJ	WO-2016065598-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	MK	WO-2016065599-A1	05-06-2016	Huizhou Kimree Technology Co Ltd		
	ML	WO-2016065606-A1	05-06-2016	Huizhou Kimree Technology Co.,ltd		
	MM	WO-2016070553-A1	05-12-2016	Shenzhen Buddy Technology Dev Co Ltd		
	MN	WO-2016071027-A1	05-12-2016	S.A.S.C. Ag.		
	MO	WO-9817131-A1	04-30-1998	Philip Morris Prod		

Examiner Signature		Date Considered	

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

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]

Examiner Signature		Date Considered	

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

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

Electronic Patent Application Fee Transmittal

Application Number:	16119359
Filing Date:	31-Aug-2018
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Alexander Roan
Attorney Docket Number:	55755-402C02US/301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
		Total in USD ($)		**240**

Docket No.: 055755-402C02US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

Application No.: 16/119,359	Confirmation No.: 7336
Filed: August 31, 2018	Art Unit: 1743
For: VAPORIZER	Examiner: M. M. Ahmed

INFORMATION DISCLOSURE STATEMENT (IDS)

FILED VIA EFS

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

Dear Commissioner:

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

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

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

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be

an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to the patentability as defined in 37 C.F.R. § 1.56(b).

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

Applicant submits herewith the fee required by 37 C.F.R. § 1.17(p), in the amount of $240.00. However, if any additional fees are due, please charge our Deposit Account No. 50-0311, under Order No. 055755-402C02US from which the undersigned is authorized to draw.

Dated: March 22, 2019

Respectfully submitted,

Electronic signature: /Alexander G. Roan/
Alexander G. Roan
Registration No.: 75,772
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

NJOY Exhibit 1007.153

Electronic Acknowledgement Receipt

EFS ID:	35443726
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Alexander Roan/shae jackson
Filer Authorized By:	Alexander Roan
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	22-MAR-2019
Filing Date:	31-AUG-2018
Time Stamp:	21:08:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	WO2016019353A1.pdf	2553849 9ff98538f688d2cce6565bde84563111e7fa1427	no	53

Warnings:

Information:					
2	Foreign Reference	WO2016019508A1.pdf	1129643 93e2ca30560d0a1ddddc42f49509316118491411	no	25
Warnings:					
Information:					
3	Foreign Reference	WO2016019550A1.pdf	1703340 1768f169c4132ebbbb66eaf6967035f66bd355c7	no	29
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4	Foreign Reference	WO2016023181A1.pdf	1740037 ec81e33da46824d910fbb35d032698aac4a5ab96	no	38
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5	Foreign Reference	WO2016023182A1.pdf	1355090 0c721dea804f63e40ebe11e71a74150f92936a8e	no	32
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7	Foreign Reference	WO2016023212A1.pdf	1278516 33a6290301899033e84e202b491bade8c93705a8	no	29
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8	Foreign Reference	WO2016023824A1.pdf	1950455 573c3086223a38a8aad8d918dc4bd09c2a6abc3e	no	22
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9	Foreign Reference	WO2016026104A1.pdf	1048780 c635447621c296e6f74f502f2903f7e785f74a0b	no	25
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10	Foreign Reference	WO2016026156A1.pdf	1190089 e028b798e2f2bd52520aae6e98920b747ee00049	no	34
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11	Foreign Reference	WO2016029344A1.pdf	1586427 c4213ad39f7e2abfae506d833ce337fc9b7eb924	no	33
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12	Foreign Reference	WO2016029386A1.pdf	1069752 6a57e6a82e5967f485f3d76868448c379fa1c541	no	28
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13	Foreign Reference	WO2016029389A1.pdf	902688 5a4fdbf52c5ea17ca860fb071eb02c65ecca6aa4	no	24
Warnings:					
Information:					
14	Foreign Reference	WO2016029468A1.pdf	1602648 920ea291bcf65f1e682c885e8c048cb9f859e047	no	38
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15	Foreign Reference	WO2016029470A1.pdf	1750541 dbdc9cd30e4446621369 26da4d5356777bd518e0	no	39
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	35443621
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Alexander Roan/shae jackson
Filer Authorized By:	Alexander Roan
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	22-MAR-2019
Filing Date:	31-AUG-2018
Time Stamp:	21:08:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	35443405
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Alexander Roan/shae jackson
Filer Authorized By:	Alexander Roan
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	22-MAR-2019
Filing Date:	31-AUG-2018
Time Stamp:	21:07:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	35443311
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Alexander Roan/shae jackson
Filer Authorized By:	Alexander Roan
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	22-MAR-2019
Filing Date:	31-AUG-2018
Time Stamp:	21:07:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	35443229
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Alexander Roan/shae jackson
Filer Authorized By:	Alexander Roan
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	22-MAR-2019
Filing Date:	31-AUG-2018
Time Stamp:	21:06:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Electronic Acknowledgement Receipt

EFS ID:	35443117
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Alexander Roan/shae jackson
Filer Authorized By:	Alexander Roan
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	22-MAR-2019
Filing Date:	31-AUG-2018
Time Stamp:	21:05:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Docket No.: 55755-402C02US/301
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

Application No.: 16/119,359 | Confirmation No.: 7336

Filed: August 31, 2018 | Art Unit: 1743

For: Vaporizer | Examiner: Ahmed Ali, Mohamed K

AMENDMENT AND RESPONSE TO NON-FINAL OFFICE ACTION

FILED VIA EFS

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

Dear Sir or Madam:

In response to the non-final Office Action dated January 11, 2019 (hereinafter "Office Action"), Applicant respectfully submits the following amendments and remarks for consideration. Changes to the pending claims have been identified with underlining to indicate insertions and by strikethrough or double brackets to indicate deletions.

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

A Statement of Substance of Interview begins on page 6 of this paper

Remarks/Arguments begin on page 7 of this paper.

NJOY Exhibit 1007.214

AMENDMENTS TO THE CLAIMS

Please amend the claims as set forth below. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1. (Currently Amended) A vaporizer comprising:

a ~~shell~~ battery portion ~~having~~ comprising a battery housing segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery housing segment and a base end proximate to the battery housing segment, the battery portion further comprising a plurality of charger electrical contacts to provide electrical charge to a battery housed in the battery housing segment, the charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer ~~including~~ comprising:

~~an outer cartomizer shell,~~

~~a holding structure provided within, and secured to, the outer cartomizer shell, the holding structure including a basin dimensioned to hold~~ a body for holding a vaporizable fluid ~~a vaporizable substance~~[[,]];

a wicking element provided within the body and at least partially in contact with the vaporizable fluid; and

a heating element provided within the ~~basin~~ body in contact with the wicking element and operable to heat the vaporizable fluid ~~substance wherein~~

~~the heating element is comprised of a flexible non-conductive material, and a flexible conductive material wherein the conductive material is intertwined or wound throughout the non-conductive material~~.

2. (Currently Amended) The vaporizer of claim 1, wherein the wicking element and the heating element are disposed within the chamber of the cartomizer receiving segment when the cartomizer is inserted into the chamber ~~flexible conductive material has an impedance value of 1 to 3 ohms~~.

NJOY Exhibit 1007.215

3. (New) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by friction between the cartomizer and the chamber.

4. (New) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by engagement of snap fit connectors.

5. (New) The vaporizer of claim 1, further comprising a shell that is commonly shared by the battery housing segment and the cartomizer receiving segment.

6. (New) The vaporizer of claim 1, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

7. (New) The vaporizer of claim 5, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

8. (New) The vaporizer of claim 1, wherein the cartomizer further comprises a mouthpiece opposite an end of the cartomizer configured for insertion into the chamber.

9. (New) The vaporizer of claim 5, wherein at least a portion of the shell is formed of a translucent material.

10. (New) The vaporizer of claim 1, wherein the cartomizer further comprises electrical circuitry connected with the heating element.

11. (New) A vaporizer comprising:

a battery portion comprising:

a battery housing segment;

a cartomizer receiving segment defining a chamber having an insertion end at the second end of the battery portion and distal from the battery housing segment, the chamber further having a base end proximate to the battery housing segment;

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a plurality of charger electrical contacts disposed at a first end of the battery portion opposite the insertion end, the insertion end being at a second end of the battery portion; and

at least one magnet in or proximate to the chamber; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid;

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable fluid; and

a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

12. (New) The vaporizer of claim 11, wherein the battery portion further comprises one or more battery electrical contacts in or proximate the chamber of the cartomizer receiving segment.

13. (New) The vaporizer of claim 11, wherein the cartomizer further comprises one or more cartomizer electrical contacts for connecting with one or more battery electrical contacts in or proximate the chamber.

14. (New) The vaporizer of claim 11, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

15. (New) The vaporizer of claim 11, further comprising a shell that is commonly shared by the battery housing segment and the cartomizer receiving segment.

16. (New) The vaporizer of claim 15, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

17. (New) A vaporizer comprising:

a battery portion comprising:

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a plurality of charger electrical contacts disposed at a first end of the battery portion;

a battery housing segment for housing a battery between the first end of the battery portion and a second end of the battery portion;

a cartomizer receiving segment defining a chamber having an insertion end at the second end of the battery portion and distal from the battery housing segment, the chamber further having a base end proximate to the battery housing segment; and

one or more battery electrical contacts in or proximate the chamber of the cartomizer receiving segment; and

a cartomizer insertable into the insertion end of the chamber, the cartomizer comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid;

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable fluid; and

one or more cartomizer electrical contacts for connecting with the one or more battery electrical contacts in or proximate the chamber.

18. (New) The vaporizer of claim 17, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

19. (New) The vaporizer of claim 17, further comprising a shell that is commonly shared by the battery housing segment and the cartomizer receiving segment.

20. (New) The vaporizer of claim 19, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

NJOY Exhibit 1007.218

Electronic Acknowledgement Receipt	
EFS ID:	36148934
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Michael David VanLoy/Maria Provencio
Filer Authorized By:	Michael David VanLoy
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	29-MAY-2019
Filing Date:	31-AUG-2018
Time Stamp:	18:45:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$600
RAM confirmation Number	053019INTEFSW00005569500311
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		55755-402C02US_Response.pdf	151751 8185bdcc0d5d8ac8be84c3cb3375264df42a720b	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Applicant Arguments/Remarks Made in an Amendment	7	12
	Applicant summary of interview with examiner	6	6
	Claims	2	5
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30525 b946bef93d2f29446d7c3c45411a6ea19aa1a5de	no	2

Warnings:

Information:

Total Files Size (in bytes):	182276

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.

STATEMENT OF SUBSTANCE OF INTERVIEW

Applicant thanks Examiner Ahmed Ali for the courtesy of the telephonic interview on February 7, 2019 with Applicant's representatives Alexander Roan, Michael Van Loy, and James Cleary ("the Interview"). During the Interview, a proposed amendment to claim 1 was discussed. The Examiner agreed during the interview that the addition to claim 1 of a plurality of charger electrical contacts disposed at a first end of the battery portion, wherein the first end is opposite the insertion end, appears to overcome the rejection under 35 U.S.C. §103, subject to further searching and consideration. The amendment to claim 1 presented herein includes the substance of this limitation. The Examiner also made suggestions for additional clarification of the language of claim 1, which are incorporated into the amendment to claim 1 presented herein. Applicant thanks the Examiner for these helpful suggestions.

The Examiner also indicated that the limitations of a proposed new claim appeared to be novel and non-obvious in view of the known prior art, subject to further searching and consideration. The limitations of that proposed claim are incorporated into claim 11 presented herein.

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REMARKS

By this Amendment, Applicant has amended Claims 1 and 2, and added new Claims 3 to 20. Although much of the amendments are for clarification, support for these amendments and new claims is present in the originally-filed specification and figures. Accordingly, no new matter is added. Upon entry of the amendments, Claims 1-20 are pending. Reconsideration is respectfully requested in light of the amendments above and the remarks below.

Double Patenting Rejection

Claim 1 stands rejected on the grounds of non-statutory double patenting over Claim 1 of the '481 patent. *Office Action*, p. 5. Applicant respectfully traverses the rejection.

As indicated above, Applicant has amended claim 1, thereby changing the scope of the claims. Applicant respectfully submits that the amendments presented above obviate these grounds of rejection. Withdrawal of the rejection is respectfully requested.

Rejections under 35 U.S.C. §103

Claims 1-2 stand rejected under 35 U.S.C. §103 as allegedly being unpatentably obvious over Liu (US 2014/0150783A1). *Office Action*, pp. 2-3. Applicant respectfully disagrees.

Standard of prima facie Obviousness

Establishment of a proper *prima facie* basis upon which to reject claimed subject matter as unpatentably obvious requires the Office to consider the *Graham* factual inquiries, which include a) determining the scope and content of the prior art, b) ascertaining the differences between the claimed invention and the prior art, and c) resolving the level of ordinary skill in the pertinent art.[1] The analysis cannot stop there, however. Rather, "this analysis should be made explicit," and "[r]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness").[2] The Office must therefore present a clear and explicit rationale supporting the assertion that all of the claimed elements were known in the prior art and that one

[1] *Graham v. John Deere Co.*, 383 U.S. 1 (1966).

[2] *KSR International Co. v. Teleflex Inc.*, 550 U.S. 398, 419 (2007) (quoting with approval *In re Kahn,* 441 F.3d 977, 988 (C.A. Fed. 2006)).

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skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, to produce a combination yielding nothing more than predictable results to one of ordinary skill in the art.[3] Additionally, "a prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention.[4]

The Office "bears the initial burden of factually supporting any *prima facie* conclusion of obviousness" and must therefore present "a clear articulation of the reason(s) why the claimed invention would have been obvious."[5] This articulation must include the following findings: a) that the prior art included each element claimed; b) that one of ordinary skill in the art could have combined the elements as claimed by known methods, and that in combination, each element merely performs the same function as it does separately; c) that one of ordinary skill in the art would have recognized that the results of the combination were predictable; and d) whatever additional findings based on the *Graham* factual inquiries may be necessary, in view of the facts of the case under consideration, to explain a conclusion of obviousness.[6] Furthermore, "[t]o support the conclusion that the claimed invention is directed to obvious subject matter, either the references must expressly or impliedly suggest the claimed invention or the examiner must present a convincing line of reasoning as to why the artisan would have found the claimed invention to have been obvious in light of the teachings of the references."[7]

Claim 1

Claim 1 stands rejected under 35 U.S.C. §103 as allegedly being obvious over Liu. *Office Action*, pp. 2-3. Although Applicant does not necessarily agree with the characterizations of Claim 1 or Liu made in the Office Action, Applicant has amended Claim 1 to advance prosecution.

As amended, Claim 1 recites a vaporizer comprising:

a battery portion comprising a battery housing segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery housing segment and a base end proximate to the battery housing segment, the battery

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[3] See *KSR International Co. v. Teleflex Inc.*, 550 U.S. 398 at 416.

[4] MPEP §2141.02 (quoting *W.L. Gore & Associates, Inc. v. Garlock, Inc.*, 721 F.2d 1540 (Fed. Cir. 1983), *cert. denied*, 469 U.S. 851 (1984)).

[5] MPEP §2142.

[6] MPEP §2143 Section A.

[7] MPEP §706.02(j) (quoting *Ex Parte Clapp*, 227 USPQ 972, 973 (Bd. Pat. App. & Inter. 1985)).

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portion further comprising a plurality of charger electrical contacts to provide electrical charge to a battery housed in the battery housing segment, the charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer ~~including~~ comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid; and

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable fluid.

As discussed above, agreement was reached during the Interview that inclusion in claim 1 of a limitation directed toward a plurality of charger electrical contacts disposed at a first end of the battery portion, wherein the first end is opposite the insertion end, appears sufficient to distinguish over Liu. Claim 1 is amended herein consistent with this agreement. Applicant thus respectfully submits that amended Claim 1 distinguishes over Liu and represents allowable subject matter.

Furthermore, a person of ordinary skill in the art would not have seen any reason motivating or benefit deriving from a modification of a device as described by Liu to include a plurality of charging contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment, as recited in amended Claim 1, at least because such a modification would require changes to the functioning of various elements of Liu. It is well-established that a proper claim rejection under 35 U.S.C. §103 requires a showing that a) all of the claimed elements were known in the prior art and that b) one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, to produce a combination yielding nothing more than predictable results to one of ordinary skill in the art.[8] Additionally, "a prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention.[9]

[8] See *KSR International Co. v. Teleflex Inc.*, 550 U.S. 398 at 416.
[9] MPEP §2141.02 quoting *W.L. Gore & Associates, Inc. v. Garlock, Inc.*, 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), *cert. denied*, 469 U.S. 851 (1984).

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The device of Liu is powered by a storage battery 955 located in a power rod 95 and having its first and second electrodes electrically connected with the inner thread joint 951 and the lower pole 952 of the power rod 95, respectively. *See Liu* at para. [0043]. This approach is consistent with e-cigarette structures in which a replaceable cartridge is threaded onto a part containing a battery (e.g. the "power rod" of Liu). Such devices are recharged by removing the replaceable cartridge and threading a charger device onto the power rod. One of ordinary skill in the art would understand that the only way to charge the storage battery 955 would be through inner thread joint 951 and the lower pole 952, as Liu fails to provides any teaching or suggestion as to how the storage battery 955 could be otherwise charged or recharged, let alone by the inclusion of a plurality of charging contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment, as recited in amended claim 1. Liu expressly notes that the end of the power rod 95 opposite the thread joint where the battery contacts are connected includes an "end cap 956, and the end cap 956 is configured with an indicator light and intake holes (not shown)." Modifying the device of Liu to be charged through a plurality of charging contacts at this end would complicate the construction of a power rod 95 and require changes in functions of the end cap 956, the charging contacts, etc. in a manner that would not have been perceived by one of ordinary skill in the art as providing any benefit. Furthermore, modification of the Liu device to include charging contacts at the end cap 956 would have been perceived by one of ordinary skill in the art as disadvantageous as those contacts would be visible at the end of the power rod thereby changing the visual effect of the indicator light, which many e-cigarette structures similar to Liu have incorporated to make e-cigarettes more closely resemble combustion-based cigarettes. As such, not only is Liu not sufficient to render the current claims obvious, it is not suitable for use in any rejection of the instant claims due to the need to change the functioning of its elements in order to produce the claimed subject matter.

For at least these reasons, Applicant respectfully requests the withdrawal of the rejection of Claim 1 under 35 U.S.C. §103.

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Remaining Claims

By this Amendment, independent Claim(s) 11 and 17 are added. These claims recite features similar to at least some of the patentable features discussed in connection with Claim 1 above. And are thus also believed to be allowable.

The remaining claims are dependent from one of the independent claims. In view of the features recited in the independent claim from which each respective dependent claim depends, and in view of the additional novel and non-obvious features recited in such dependent claims, these claims are also believed to be allowable.

Although specific features of original dependent claim 2 are not been discussed in this response, Applicant does not necessarily agree with the characterizations and assessments made by the Examiner with respect to this claim.

Request for Interview

The amendments/arguments presented herein are believed to be sufficient to overcome the pending rejections. However, if the contents of this paper are not deemed sufficient to further prosecution in this matter, or if any issues arise that can be most efficiently handled by telephone, the Examiner is respectfully requested to contact the undersigned by either phone or e-mail to schedule an interview at a mutually convenient time.

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CONCLUSION

On the basis of the foregoing amendments, the pending claims are in condition for allowance. It is believed that all of the pending claims have been addressed in this paper. However, failure to address a specific rejection, issue or comment, does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above are not intended to be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper.

Any claim amendments which are not specifically discussed in the above remarks are not made for patentability purposes, and it is believed that the claims would satisfy the statutory requirements for patentability without the entry of such amendments. Rather, these amendments have only been made to increase claim readability, to improve grammar, and to reduce the time and effort required of those in the art to clearly understand the scope of the claim language.

Payment is submitted herewith for a two-month extension of time. No additional fees are believed to be due. However, the Commissioner is hereby authorized to charge any additional claim fees and any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 055755-402C02US. If there are any questions regarding this response, the Examiner is encouraged to contact the undersigned at the telephone number provided below.

Dated: May 29, 2019

Respectfully submitted,

Electronic Signature: /mdvl/

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Attorney for Applicant

NJOY Exhibit 1007.228

Electronic Patent Application Fee Transmittal

Application Number:	16119359
Filing Date:	31-Aug-2018
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Michael David VanLoy/Maria Provencio
Attorney Docket Number:	55755-402C02US/301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 2 months with $0 paid	1252	1	600	600
Miscellaneous:				
			Total in USD ($)	**600**

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/119,359	Filing Date 08/31/2018	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $460 =	
☐ 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	05/29/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

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

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

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/119,359	08/31/2018	Jan Andries Verleur	55755-402C02US/301	7336

148514 7590 08/08/2019

Mintz/JUUL
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Boston, MA 02111

EXAMINER	
AHMED ALI, MOHAMED K	

ART UNIT	PAPER NUMBER
1743	

NOTIFICATION DATE	DELIVERY MODE
08/08/2019	ELECTRONIC

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

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

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

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com

NJOY Exhibit 1007.232

Office Action Summary	**Application No.** 16/119,359	**Applicant(s)** Verleur et al.	
	Examiner MOHAMED K AHMED ALI	**Art Unit** 1743	**AIA (FITF) Status** Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 05/29/2019.

☐ 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) _____ is/are allowed.

7) ☑ Claim(s) 1-20 is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

NJOY Exhibit 1007.233

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Status of the application

This is a final rejection in response to the applicant' remarks and amendment filed on 05/29/2019. Claims 1-2 are currently amended, claims 3-20 are new. Accordingly claims 1-20 are examined herein.

Note

Examiner wishes to point out to applicant that claim(s) 1-20 is/are directed towards an apparatus and as such will be examined under the following conditions. The process/manner of using the apparatus and/or the material worked upon by the apparatus is/are viewed as recitation(s) of intended use and is/are given patentable weight only to the extent that structure is added to the claimed apparatus (See MPEP 2114 II and 2115 for further details). For apparatuses, the claim limitations will define structural limitations (See MPEP 2114-2115) or functional limitations properly recited (See MPEP 2173.05 (g)).

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.

Claims 11-16 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.

Claim 11 recites **"at least one magnet in or proximate to the chamber; and a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion"** which is indefinite. The only chamber recited earlier in the claim is the cartomizer chamber, so it is not if the at least one magnet disposed in or proximate to the cartomizer's chamber and

the at least one magnet of the battery portion are the same elements or not. Furthermore, it is not clear if the recited chamber is referring to the cartomizer chamber or it is a different chamber such as a battery chamber. The limitation is examined below as best understood.

Claim(s) 12-16 is/are rejected as being dependent from claim 11 and therefor including all the limitation thereof.

Claim Rejections - 35 USC § 103

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

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

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-6, 8 and 10 is/are rejected under 35 U.S.C. 103 as being unpatentable over Lord (US 2015/0157055 – of record) in view of Sears (US 2014/0096781– of record) and Monsees (US 2013/0042865 – of record).

Regarding **claim 1,**

Lord teaches a vaporizer (electronic cigarette 1) (see fig.1) comprising:

a battery portion (battery portion 5) comprising a battery housing segment (battery assembly casing 8) (see fig.2) and a cartomizer receiving segment (i.e. the segment receiving the vaporizer 6), the cartomizer receiving segment defining a chamber (vaporizer casing 15) having **...** first end (22) distal from the

battery housing segment and a base end (i.e. the bottom end of the first end 22 facing toward the battery housing 8) proximate to the battery housing segment (see figs.1 -2; [0051 -0053] and [0057]).

Lord does not teach the first end (22) of the chamber is an insertion end.

In the same field of endeavor, electronic smoking, Sears teaches a smoking article (10) comprises a battery segment (a control body 80) and a cartomizer receiving segment (a cartridge 90) proximate to a second end (13) of battery portion, the cartomizer receiving segment defining a chamber (cartridge shell 91) having an opening at a insertion end (14) of the chamber distal to a battery housing segment (81) (see figs.2-3; [0074-0078]). Since Lord teaches the first end (22) of the chamber (15) can have a threaded connection such that the chamber (vaporizer casing 15) connects to the battery assembly casing (8) (see fig.2; [0058]), it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by Lord with an insertion end as taught by Sears for the purpose of providing a secured connection between the vaporizer and the battery portion.

Lord further teaches the battery portion (5) further comprising a plurality of electrical contacts (10) to disposed at one end (12) of the battery portion opposite the insertion end (22) of the chamber of the cartomizer receiving segment (see fig.2; [0053]), but Lord does not teach the battery portion (5) further comprising a plurality of charger electrical contacts to provide electrical charge to a battery housed in the battery housing segment, the charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment.

In the same field of endeavor, vaporizer devices, Monsees teaches device for generating an inhalable aerosol comprising a mouthpiece; a body; an electronic heater within said body configured to heat a viscous vaporizable material, wherein the device includes a battery housing segment, a plurality of charger electrical contacts (824) disposed at a first end (827) of the battery portion, to provide electrical charge to a battery (803) housed in the battery housing segment (see fig.8;[0091,[0097-0098]).
Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by the combination with a plurality of charger electrical contacts to provide electrical charge to a battery as taught by Monsees for the purpose of re-charging the battery more efficiently and improve the user's experience.

Modified Lord further teaches a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising: a body (liquid store 7) for holding a vaporizable fluid; a wicking element (18) provided within the body and at least partially in contact with the vaporizable fluid; and a heating element (17) provided within the body in contact with the wicking element and operable to heat the vaporizable fluid (see fig.2; [0052], and [0056-0059]).

Regarding **claim 2,**

The combination further teaches the vaporizer, wherein the wicking element (18) and the heating element (17) are disposed within the chamber (vaporizer casing 15) of the cartomizer receiving segment when the cartomizer is inserted into the chamber (see fig.2; [0056] of Lord).

Regarding **claim 3,**

The combination further teaches the vaporizer, wherein the cartomizer (cartridge shell 91) is configured to be retained in the chamber (91) by friction between the cartomizer and the chamber (see figs.2-3; [0061] and [0075] of Sears).

Regarding **claim 4,**

The combination further teaches the vaporizer, wherein the cartomizer is configured to be retained in the chamber by engagement of snap fit connectors (see [0061] and [0075] of Sears).

Regarding **claim 5,**

Lord further teaches the vaporizer, further comprising a shell (cylindrical body 3) that is commonly shared by the battery housing segment (battery portion 5) and the cartomizer receiving segment (i.e. the segment receiving the vaporizer 6) (see figs.1-2; [0051]).

Regarding **claim 6,**

Lord further teaches the vaporizer, wherein the plurality of charger electrical contacts (10, 10) are arranged linearly at the first end of the battery portion (5) (see fig.2; [0053-0054]).

Regarding **claim 8,**

Lord further teaches the vaporizer, wherein the cartomizer further comprises a mouthpiece (2) opposite an end of the cartomizer configured for insertion into the chamber (15) (see fig.2; [0051-0052]).

Regarding **claim 10,**

Lord further teaches the vaporizer, wherein the cartomizer further comprises electrical circuitry (control circuit 11) connected with the heating element (17) (see fig.2; [0055-0056]).

Claims 7 and 9 is/are rejected under 35 U.S.C. 103 as being unpatentable over Lord (US 2015/0157055 – of record) in view of Sears (US 2014/0096781– of record) and Monsees (US 2013/0042865 – of record) as applied to claim 5 above, and further in view of Cohen (US 2011/0036346– of record).

Regarding **claims 7 and 9,**

The combination teaches the vaporizer as discussed in claim 5 above.

The combination does not teach the vaporizer further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber and at least a portion of the shell is formed of a translucent material.

In the same filed of endeavor, vaporizers, Cohen teaches an inhalation device (10) comprises a chamber (electronics section 12) having a battery (42), a cylindrical housing (24); cartomizer (an atomizing unit 14), and a window (a display 22) formed in an outer shell, wherein at least a portion of the shell is formed of a translucent material, and the window provided on or proximate to the chamber to permit viewing of the cartomizer (14) when the cartomizer is inserted in the chamber (see figs.1 -3; [0017-0018] and [0023). **Therefore,** it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by Lord with a window formed in the outer shell as taught by Cohen for the purpose of enable the user to see the cartomizer components, liquid level, and improve the user's experience.

Claims 11-15 is/are rejected under 35 U.S.C. 103 as being unpatentable over Lord (US 2015/0157055 – of record) in view of Sears (US 2014/0096781) and Li (US 2014/0150783 – of record).

Regarding **claim 11,**

Lord teaches a vaporizer (electronic cigarette 1) (see fig.1) comprising:

a battery portion (battery portion 5) comprising:

a battery housing segment (battery assembly casing 8) (see fig.2);

a cartomizer receiving segment (i.e. the segment receiving the vaporizer 6) defining a chamber (vaporizer casing 15) having ... first end (22) at the second end of the battery portion and distal from the battery housing segment, the chamber further having a base end (i.e. the bottom end of the first end 22 facing toward the battery housing 8) proximate to the battery housing segment (see figs.1 -2; [0051 - 0053] and [0057]).

Lord does not teach the first end (22) of the chamber is an insertion end.

In the same field of endeavor, electronic smoking, Sears teaches a smoking article (10) comprises a battery segment (a control body 80) and a cartomizer receiving segment (a cartridge 90) proximate to a second end (13) of battery portion, the cartomizer receiving segment defining a chamber (cartridge shell 91) having an opening at a insertion end (14) of the chamber distal to a battery housing segment (81) (see figs.2-3; [0074-0078]). Since Lord teaches the first end (22) of the chamber (15) can have a threaded connection such that the chamber (vaporizer casing 15) connects to the battery assembly casing (8) (see fig.2; [0058]), it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by Lord with an insertion end as taught by Sears for the purpose of providing a secured connection between the vaporizer and the battery portion.

Modified Lord further teaches a plurality of charger electrical contacts (10, 10) disposed at a first end (12) of the battery portion opposite the insertion end, the insertion end being at a second end of the battery portion (5) (see fig.2; [0053]); and a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising a body (liquid store 7) for holding a vaporizable fluid;

a wicking element (18) provided within the body and at least partially in contact with the vaporizable fluid; a heating element (17) provided within the body in contact with the wicking element and operable to heat the vaporizable fluid(see fig.2; [0052], and [0056-0059]).

The combination does not teach at least one magnet in or proximate to the chamber; and a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

In the same field of endeavor, vaporizers devices, Liu teaches a vaporizer (an electronic cigarette) (Abstract) comprising a shell having a battery segment (power rod 95) and a cartomizer chamber (91) at least one magnet in or proximate to the chamber (i.e. the magnetic portion of the connector 92) ; and a metal element (threaded portion of 95)disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion (see figs.1-2; [0030] , [0032] and [0036-0038]). Since Lord teaches cartomizer housing (15) connects to the battery assembly casing (8) by a threaded connection (see 0058]) and Sears teaches the connecting ends of the control body and the cartridge can be threaded for a screw-type engagement or the connecting ends can have a press-fit engagement (see [0061]), it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by the combination with at least one magnet in or proximate to the chamber; and a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion as taught by Li in order to provide secured magnetic coupling between the battery portion and the cartomizer segment.

Regarding **claim 12,**

Lord further teaches the vaporizer, wherein the battery portion further comprises one or more battery electrical contacts (10, 10) in or proximate the chamber of the cartomizer receiving segment (see fig.2; [0053-0054]).

Regarding **claim 13,**

Lord further teaches the vaporizer, wherein the cartomizer further comprises one or more cartomizer electrical contacts (16, 16) for connecting with one or more battery electrical contacts (10, 10) in or proximate the chamber (15) (see fig.2; [0056-0059] and [0072]).

Regarding **claim 14,**

Lord further teaches the vaporizer, wherein the plurality of charger electrical contacts (10, 10) are arranged linearly at the first end of the battery portion (5) (see fig.2; [0053-0054]).

Regarding **claim 15,**

Lord further teaches the vaporizer, further comprising a shell (cylindrical body 3) that is commonly shared by the battery housing segment (battery portion 5) and the cartomizer receiving segment (i.e. the segment receiving the vaporizer 6) (see figs.1-2; [0051]).

Claim 16 is/are rejected under 35 U.S.C. 103 as being unpatentable over Lord (US 2015/0157055 – of record) in view of Sears (US 2014/0096781 – of record) and Li (US 2014/0150783 – of record) as applied to claim 11 above, and further in view of Cohen (US 2011/0036346 – of record).

Regarding **claim 16,**

The combination teaches the vaporizer as discussed in claim 5 above.

The combination does not teach the vaporizer further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

In the same filed of endeavor, vaporizers, Cohen teaches an inhalation device (10) comprises a chamber (electronics section 12) having a battery (42), a cylindrical housing (24); cartomizer (an atomizing unit 14), and a window (a display 22) formed in an outer shell, and the window provided on or proximate to the chamber to permit viewing of the cartomizer (14) when the cartomizer is inserted in the chamber (see figs.1 -3; [0017-0018] and [0023). **Therefore,** it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by Lord with the vaporizer further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber as taught by Cohen for the purpose of enable the user to see the cartomizer components, liquid level, and improve the user's experience.

Claims 17-19 is/are rejected under 35 U.S.C. 103 as being unpatentable over Lord (US 2015/0157055 – of record) in view of Sears (US 2014/0096781– of record)

Regarding **claim 17,**

Lord teaches a vaporizer (electronic cigarette 1) (see fig.1) comprising:

a battery portion (battery portion 5) comprising:

a plurality of charger electrical contacts (10,10) disposed at a first end of the battery portion; a battery housing segment (battery assembly casing 8) for housing a battery (power cell 9) between the first end of the battery portion and a second end(12) of the battery portion (see fig.2; [0053-0054]);

a cartomizer receiving segment(i.e. the segment receiving the vaporizer 6) defining a chamber (vaporizer casing 15) having **...** a first end (22) at the second end of the battery portion and distal from the battery housing segment (8), the chamber further having a base end (i.e. the bottom end of the first end 22 facing toward the battery housing 8) proximate to the battery housing segment (see figs.1 -2; [0051 - 0053] and [0057]); and one or more battery electrical contacts (24) in or proximate the chamber of the cartomizer receiving segment (see [0059]).

Lord does not teach the first end of the chamber is an insertion end.

In the same field of endeavor, electronic smoking, Sears teaches a smoking article (10) comprises a battery segment (a control body 80) and a cartomizer receiving segment (a cartridge 90) proximate to a second end (13) of battery portion, the cartomizer receiving segment defining a chamber (cartridge shell 91) having an opening at a insertion end (14) of the chamber distal to a battery housing segment (81) (see figs.2-3; [0074-0078]). Since Lord teaches the first end (22) of the chamber (15) can have a threaded connection such that the chamber (vaporizer casing 15) connects to the battery assembly casing (8) (see fig.2; [0058]), it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by Lord with an insertion end as taught by Sears for the purpose of providing a secured connection between the vaporizer and the battery portion.

Modified Lord further teaches a cartomizer (vaporizer 6) insertable into the insertion end of the chamber (15), the cartomizer comprising a body (liquid store 7) for holding a vaporizable fluid;
a wicking element (18) provided within the body and at least partially in contact with the vaporizable fluid;
a heating element (18) provided within the body in contact with the wicking element and operable to heat the vaporizable fluid (see fig.2; [0052], and [0056-0059]); and one or more cartomizer electrical contacts (16, 16) for connecting with the one or more battery electrical contacts (10, 10) in or proximate the chamber (see fig.2; [0059]).

Regarding **claim 18,**

Lord further teaches the vaporizer, wherein the plurality of charger electrical contacts (10, 10) are arranged linearly at the first end of the battery portion (5) (see fig.2; [0053-0054]). .

Regarding **claim 19,**

Lord further teaches the vaporizer, further comprising a shell (cylindrical body 3) that is commonly shared by the battery housing segment (battery portion 5) and the cartomizer receiving segment (i.e. the segment receiving the vaporizer 6) (see figs.1-2; [0051]).

Claim 20 is/are rejected under 35 U.S.C. 103 as being unpatentable over Lord (US 2015/0157055n – of record) in view of Sears (US 2014/0096781– of record) as applied to claim 17 above, and further in view of Cohen (US 2011/0036346 – of record).

Regarding **claim 20,**

The combination teaches the vaporizer as discussed in claim 17 above.

The combination does not teach the vaporizer further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

In the same filed of endeavor, vaporizers, Cohen teaches an inhalation device (10) comprises a chamber (electronics section 12) having a battery (42), a cylindrical housing (24); cartomizer (an atomizing unit 14), and a window (a display 22) formed in an outer shell, and the window provided on or proximate to the chamber to permit viewing of the cartomizer (14) when the cartomizer is inserted in the chamber (see figs.1 -3; [0017-0018] and [0023). **Therefore,** it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by Lord with the vaporizer further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber as taught by Cohen for the purpose of enable the user to see the cartomizer components, liquid level, and improve the user's experience.

Response to Arguments

Applicant's arguments with respect to claims 2-3 have been considered but are moot based upon the new ground of rejection presented in the office action above in response to the claim amendments received on 05/29/2019.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMED K AHMED ALI whose telephone number is (571)272-0347. The examiner can normally be reached on 10:00 AM-7:30 PM.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Del Sole can be reached on 571-272-1130. 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.

/MOHAMED K AHMED ALI/
Examiner, Art Unit 1743

/JOSEPH S DEL SOLE/
Supervisory Patent Examiner, Art Unit 1743

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S34	77	((("VERLEUR") near3 ("Jan")) OR (("RECIO") near3 ("Dan")) OR (("LU") near3 ("Yifeng")) OR (("ZHANG") near3 ("Yinjun")) OR (("FAJARDO") near3 ("Arturo")) OR (("VERLEUR") near3 ("Hans"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/07/22 18:02
S35	70	((("VERLEUR") near3 ("Jan")) OR (("RECIO") near3 ("Dan")) OR (("LU") near3 ("Yifeng")) OR (("ZHANG") near3 ("Yinjun")) OR (("FAJARDO") near3 ("Arturo")) OR (("VERLEUR") near3 ("Hans"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 18:02
S36	2	"20130037041"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 18:07
S37	1	"20130168880"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 19:10
S38	3	"20130220315"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 19:11
S39	2	"20120199663"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 19:12
S40	9	("20070283972" | "20120199663" | "20130037041" | "20130168880" | "20130220315" | "20130333711" | "20140014124" | "20140150784" | "20140253144").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 19:13
S41	1	("7293565").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 19:16
S42	21	(US-20160213066-$ or US-20130228191-$ or US-20140150783-$ or US-20140096781-$ or US-20150157055-$ or US-20150313287-$ or US-20150305409-$ or US-20150208728-$ or US-20150201674-$ or US-20150090278-$ or US-20140366898-$ or US-20130284194-$ or US-20130255702-$ or US-20110036346-$ or US-20150083147-$ or US-20130192623-$ or US-20180303169-$ or US-20130288081-$).did. or (US-9364024-$ or US-5957717-$ or US-5269327-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 19:27
S43	2	15/833,873	US-	OR	OFF	2019/07/22

NJOY Exhibit 1007.246

			PGPUB; USPAT; USOCR			20:08
S44	129	("20060093977" | "20120318882" | "20130199528" | "20130213420" | "4207457" | "4771295" | "4848374" | "4945929" | "5646666" | "5743251" | "6722763" | "8490628" | "D704634" | "20110220234" | "D260941" | "D720094" | "D720496" | "D726364" | "20150091501" | "3203025" | "3400998" | "4771796" | "4797692" | "4990939" | "5144962" | "5505214" | "5894841" | "6062213" | "6501052" | "7143766" | "D257519" | "D722166" | "20140261490" | "20150059783" | "2057353" | "3200819" | "6471782" | "6620659" | "6719443" | "8365742" | "D644375" | "D693053" | "D695450" | "D248047" | "D260690" | "D724263" | "20050017685" | "2545851" | "3060429" | "5666977" | "5703633" | "5996589" | "6196218" | "D531180" | "D693765" | "D720881" | "20130152922" | "4569136" | "20130192617" | "20130220315" | "20130284190" | "20140261499" | "D720882" | "20150090256" | "3747120" | "4676237" | "4945448" | "5819756" | "6701921" | "8375957" | "D720095" | "D722956" | "D724782" | "20140034070" | "D721202" | "20130104916" | "20130228191" | "20140150783" | "3479561" | "5124200" | "5388574" | "6234167" | "D725310" | "20130042865" | "20130180533" | "20150027471" | "8955522" | "9038642" | "D251072" | "D675777" | "D729441" | "20110303231" | "20150090281" | "1446087" | "20080257367" | "20130298905" | "20150027467" | "3502588" | "5224265" | "5327915" | "7059307" | "8393331" | "D645816" | "D702876" | "D718492" | "D720497" | "4941236" | "20140041655" | "4972855" | "5060671" | "6155268" | "6322268" | "6598607" | "D624238" | "D642330" | "D720883" | "D259588" | "D688415" | "D732733" | "20120199663").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 20:11
S45	3818	(A24F47/008).cpc. and ((battery (power (source supply)) same (Charg$3 re$2charg$3) near5 (base receptacl)))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 20:36
S46	1447	S45 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 20:37
S49	3818	(A24F47/008).cpc. and ((battery (power (source supply)) same ((Charg$3 re$2charg$3) near5 (base receptacl))))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 20:40
S51	70	(A24F47/008).cpc. and (battery (power near3 (source supply))) same ((Charg$3 re$2charg$3) near5 (base receptacl))	US-PGPUB; USPAT;	OR	OFF	2019/07/22 20:41

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			USOCR			
S52	32	S51 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/22 20:42
S53	108	((("LORD") near3 ("Christopher"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/07/23 10:54
S54	87	((("LORD") near3 ("Christopher"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/23 10:54
S55	1	"20180303169"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/23 17:16
S56	17	((("NEWTON") near3 ("Kyle"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2019/07/23 17:46
S57	17	((("NEWTON") near3 ("Kyle"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/23 17:47
S58	7	("20110036346" | "20130253427" | "20130284194" | "20130298905" | "20120199572" | "20130228190" | "20110120482").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/23 17:58
S59	93	((("RAI") near3 ("Strategic") near3 ("Holdings") near3 ("Inc"))).AS,AANM.	USPAT	OR	OFF	2019/07/23 17:59
S60	86	S59 and ((battery (power (source supply)) same ((Charg$3 re$2charg$3) near5 (base receptacl))))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/23 18:00
S61	35	S60 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/23 18:00
S63	2	"20160143364"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/23 18:07
S64	2	"20140096781"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/23 18:17
S65	2	"20140000638"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/23 18:18
S67	2	"20110036346"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/29 14:25

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S68	4903	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/29 20:01
S69	1900	A61M15/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/29 20:01
S70	1334	S68 and S69	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/29 20:01
S71	143	S70 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/29 20:01
S72	30	S71 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/07/29 20:01

EAST Search History (Interference)

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7/ 30/ 2019 11:24:57 AM
C:\ Users\ mali5\ Documents\ EAST\ Workspaces\ 16119359.wsp

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	Art Unit
	MOHAMED K AHMED ALI	1743

CPC - Searched*		
Symbol	Date	Examiner
A24F47/008, A24F47/004, A24F47/006, A61M15/06.	01/05/2019	MK

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
Inventor names searched in East	01/05/2019	MK
Assignee name searched in Palm	01/05/2019	MK
See east history search attached	01/05/2019	MK
see updated east history search attached	07/22/2019	MK

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

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	

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Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	16/119,359
				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
Sheet	1	of	36	Attorney Docket Number	055755-402C02US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US-20030150451-A1	08-14-2003	Shayan	
	B	US-20030226837-A1	12-11-2003	Blake et al.	
	C	US-20040099266-A1	05-27-2004	Cross et al.	
	D	US-20040200488-A1	10-14-2004	Felter et al.	
	E	US-20050016550-A1	01-27-2005	Katase	
	F	US-20050172976-A1	08-11-2005	Newman et al.	
	G	US-20060016453-A1	01-26-2006	Kim	
	H	US-20060191546-A1	08-31-2006	Takano et al.	
	I	US-20060196518	09-2006	Hon	
	J	US-20070045288-A1	03-01-2007	Nelson	
	K	US-20070125765-A1	06-07-2007	Nelson	
	L	US-20070283972-A1	12-13-2007	Monsees et al.	
	M	US-20080023003-A1	01-31-2008	Rosenthal	
	N	US-20080257367-A1	10-23-2008	Paterno et al.	
	O	US-20090095287-A1	04-16-2009	Emarlou	
	P	US-20090095311-A1	04-16-2009	Han	
	Q	US-20090133691-A1	05-28-2009	Yamada et al.	
	R	US-20090151717-A1	06-18-2009	Bowen et al.	
	S	US-20090188490-A1	07-30-2009	Han	
	T	US-20090255534-A1	10-15-2009	Paterno	
	U	US-20090260641-A1	10-22-2009	Monsees et al.	
	V	US-20090260642-A1	10-22-2009	Monsees et al.	
	W	US-20090272379-A1	11-05-2009	THORENS et al.	
	X	US-20100031968-A1	02-11-2010	SHEIKH et al.	
	Y	US-20100163063-A1	07-01-2010	FERNANDO et al.	
	Z	US-20100200008-A1	08-12-2010	Taieb	
	AA	US-20100242974-A1	09-30-2010	Pan	
	AB	US-20100307518-A1	12-09-2010	Wang	
	AC	US-2011/0277761-A1	11-17-2011	Terry et al.	
	AD	US-2011/0303231	12-15-2011	Li et al.	
	AE	US-20110005535-A1	01-13-2011	Xiu	
	AF	US-20110011396-A1	01-20-2011	FANG	
	AG	US-20110036346-A1	02-17-2011	Cohen et al.	
	AH	US-20110041861-A1	02-24-2011	Sebastian et al.	
	AI	US-20110094523-A1	04-28-2011	Thorens et al.	
	AJ	US-20110097060-A1	04-28-2011	Michael Buzzetti	
	AK	US-20110155151-A1	06-30-2011	NEWMAN et al.	
	AL	US-20110155153-A1	06-30-2011	Thorens et al.	
	AM	US-20110168194-A1	07-14-2011	Hon	
	AN	US-20110226236-A1	09-22-2011	Buchberger	
	AO	US-20110232654-A1	09-29-2011	Mass	
	AP	US-20110265806-A1	11-03-2011	Alarcon et al.	

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	AQ	US-20110277780-A1	11-17-2011	Terry et al.		
	AR	US-20110278189-A1	11-17-2011	Terry et al.		
	AS	US-20110290248-A1	12-01-2011	Schennum		
	AT	US-20120111346-A1	05-10-2012	Rinker et al.		
	AU	US-20120111347-A1	05-10-2012	Hon		
	AV	US-20120118301-A1	05-17-2012	Montaser		
	AW	US-20120118307-A1	05-17-2012	Tu		
	AX	US-20120125353-A1	05-24-2012	Wollin		
	AY	US-20120174914-A1	07-12-2012	Pirshafiey et al.		
	AZ	US-20120199146-A1	08-09-2012	Marangos		
	BA	US-20120199663-A1	08-09-2012	QIU		
	BB	US-20120204889-A1	08-16-2012	Xiu		
	BC	US-20120211015-A1	08-23-2012	Li et al.		
	BD	US-20120234315-A1	09-20-2012	Li et al.		
	BE	US-20120260926-A1	10-18-2012	Tu et al.		
	BF	US-20120260927-A1	10-18-2012	Liu		
	BG	US-20120279512-A1	11-08-2012	Hon		
	BH	US-20120285475-A1	11-15-2012	Liu		
	BI	US-20120291791-A1	11-22-2012	Pradeep		
	BJ	US-20120312313-A1	12-13-2012	FRIJA		
	BK	US-20120318882-A1	12-20-2012	Abehasera		
	BL	US-2013/0104916-A1	05-02-2013	Bellinger et al.		
	BM	US-2013/0284194-A1	10-31-2013	Newton		
	BN	US-2013/0319407-A1	12-05-2013	Liu		
	BO	US-20130008457-A1	01-10-2013	ZHENG et al.		
	BP	US-20130014755-A1	01-17-2013	Kumar et al.		
	BQ	US-20130019887-A1	01-24-2013	Liu		
	BR	US-20130025609-A1	01-31-2013	Liu		
	BS	US-20130037041-A1	02-14-2013	Worm et al.		
	BT	US-20130042865-A1	02-21-2013	MONSEES et al.		
	BU	US-20130056013-A1	03-07-2013	Terry et al.		
	BV	US-20130068239-A1	03-21-2013	YOUN		
	BW	US-20130081642-A1	04-04-2013	Safari		
	BX	US-20130087160-A1	04-11-2013	Gherghe		
	BY	US-20130139833-A1	06-06-2013	Hon		
	BZ	US-20130152954-A1	06-20-2013	YOUN		
	CA	US-20130167854-A1	07-04-2013	Shin		
	CB	US-20130168880-A1	07-04-2013	DUKE		
	CC	US-20130180533-A1	07-18-2013	Kim et al.		
	CD	US-20130192615-A1	08-01-2013	Tucker et al.		
	CE	US-20130192617-A1	08-01-2013	Thompson		
	CF	US-20130192618-A1	08-01-2013	Li et al.		
	CG	US-20130192619-A1	08-01-2013	Tucker et al.		
	CH	US-20130199528-A1	08-08-2013	Goodman et al.		
	CI	US-20130213417-A1	08-22-2013	Chong et al.		
	CJ	US-20130213418-A1	08-22-2013	Tucker et al.		

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	CK	US-20130213419-A1	08-22-2013	Tucker et al.	
	CL	US-20130213420-A1	08-22-2013	Hon	
	CM	US-20130220315-A1	08-29-2013	Conley et al.	
	CN	US-20130228191-A1	09-05-2013	Newton	
	CO	US-20130255702-A1	10-03-2013	Griffith, JR. et al.	
	CP	US-20130263869-A1	10-10-2013	Zhu	
	CQ	US-20130276802-A1	10-24-2013	Scatterday	
	CR	US-20130284192-A1	10-31-2013	Peleg et al.	
	CS	US-20130298905-A1	11-14-2013	Levin et al.	
	CT	US-20130306065-A1	11-21-2013	Thorens et al.	
	CU	US-20130306084-A1	11-21-2013	Flick	
	CV	US-20130312742-A1	11-28-2013	MONSEES et al.	
	CW	US-20130319431-A1	12-05-2013	Cyphert et al.	
	CX	US-20130319435-A1	12-05-2013	Flick	
	CY	US-20130319436-A1	12-05-2013	Liu	
	CZ	US-20130319438-A1	12-05-2013	Liu	
	DA	US-20130319439-A1	12-05-2013	Gorelick et al.	
	DB	US-20130319440-A1	12-05-2013	Capuano	
	DC	US-20130333700-A1	12-19-2013	Buchberger	
	DD	US-20130333711-A1	12-19-2013	Liu	
	DE	US-20130336358-A1	12-19-2013	Liu	
	DF	US-20130340775-A1	12-26-2013	Juster et al.	
	DG	US-2014/0150783-A1	06-05-2014	Liu	
	DH	US-2014/0283859-A1	09-25-2014	Minskoff et al.	
	DI	US-20140000638-A1	01-02-2014	Sebastian et al.	
	DJ	US-20140007863-A1	01-09-2014	Chen	
	DK	US-20140007891-A1	01-09-2014	Liu	
	DL	US-20140014126-A1	01-16-2014	Peleg et al.	
	DM	US-20140034070-A1	02-06-2014	Schennum	
	DN	US-20140034071-A1	02-06-2014	Levitz et al.	
	DO	US-20140048086-A1	02-20-2014	ZHANGHUA	
	DP	US-20140053858-A1	02-27-2014	Liu	
	DQ	US-20140060529-A1	03-06-2014	Zhang	
	DR	US-20140060552-A1	03-06-2014	Cohen	
	DS	US-20140060556-A1	03-06-2014	Liu	
	DT	US-20140069424-A1	03-13-2014	Poston et al.	
	DU	US-20140069425-A1	03-13-2014	Zhang	
	DV	US-20140083442-A1	03-27-2014	Scatterday	
	DW	US-20140096781-A1	04-10-2014	Sears et al.	
	DX	US-20140096782-A1	04-10-2014	Ampolini et al.	
	DY	US-20140107815-A1	04-17-2014	LaMothe	
	DZ	US-20140109898-A1	04-24-2014	Ll et al.	
	EA	US-20140109921-A1	04-24-2014	Chen	
	EB	US-20140116455-A1	05-01-2014	Youn	
	EC	US-20140123990-A1	05-08-2014	Timmermans	
	ED	US-20140130796-A1	05-15-2014	Liu	

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	EE	US-20140130797-A1	05-15-2014	Liu		
	EF	US-20140130816-A1	05-15-2014	Liu		
	EG	US-20140130817-A1	05-15-2014	Ll et al.		
	EH	US-20140144453-A1	05-29-2014	Capuano et al.		
	EI	US-20140150784-A1	06-05-2014	Liu		
	EJ	US-20140150785-A1	06-05-2014	Malik et al.		
	EK	US-20140150810-A1	06-05-2014	Hon		
	EL	US-20140166028-A1	06-19-2014	FUISZ et al.		
	EM	US-20140166030-A1	06-19-2014	Ll et al.		
	EN	US-20140174459-A1	06-26-2014	Burstyn		
	EO	US-20140175081-A1	06-26-2014	HWA		
	EP	US-20140182609-A1	07-03-2014	Liu		
	EQ	US-20140182610-A1	07-03-2014	Liu		
	ER	US-20140182611-A1	07-03-2014	LIU		
	ES	US-20140190477-A1	07-10-2014	Qiu		
	ET	US-20140190478-A1	07-10-2014	LIU		
	EU	US-20140190496-A1	07-10-2014	Wensley et al.		
	EV	US-20140190501-A1	07-10-2014	Liu		
	EW	US-20140190502-A1	07-10-2014	Liu		
	EX	US-20140190503-A1	07-10-2014	Ll et al.		
	EY	US-20140196716-A1	07-17-2014	Liu		
	EZ	US-20140196718-A1	07-17-2014	Li et al.		
	FA	US-20140196733-A1	07-17-2014	Liu		
	FB	US-20140196735-A1	07-17-2014	Liu		
	FC	US-20140202472-A1	07-24-2014	Levitz et al.		
	FD	US-20140202474-A1	07-24-2014	Peleg et al.		
	FE	US-20140202475-A1	07-24-2014	Liu		
	FF	US-20140202477-A1	07-24-2014	Qi et al.		
	FG	US-20140209105-A1	07-31-2014	Sears et al.		
	FH	US-20140209106-A1	07-31-2014	Liu		
	FI	US-20140209107-A1	07-31-2014	Liu		
	FJ	US-20140209108-A1	07-31-2014	Ll et al.		
	FK	US-20140209109-A1	07-31-2014	Larson		
	FL	US-20140216450-A1	08-07-2014	Liu		
	FM	US-20140216483-A1	08-07-2014	ALIMA		
	FN	US-20140216484-A1	08-07-2014	Liu		
	FO	US-20140224244-A1	08-14-2014	Liu		
	FP	US-20140224267-A1	08-14-2014	Levitz et al.		
	FQ	US-20140230835-A1	08-21-2014	SALIMAN		
	FR	US-20140238421-A1	08-28-2014	Shapiro		
	FS	US-20140238422-A1	08-28-2014	Plunkett et al.		
	FT	US-20140238423-A1	08-28-2014	Tucker et al.		
	FU	US-20140238424-A1	08-28-2014	Macko et al.		
	FV	US-20140246031-A1	09-04-2014	Liu		
	FW	US-20140246033-A1	09-04-2014	Daehne et al.		
	FX	US-20140251324-A1	09-11-2014	Xiang		

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	FY	US-20140251325-A1	09-11-2014	Liu		
	FZ	US-20140251356-A1	09-11-2014	Xiang		
	GA	US-20140253144-A1	09-11-2014	Novak, III et al.		
	GB	US-20140254055-A1	09-11-2014	Xiang		
	GC	US-20140261408-A1	09-18-2014	DePiano et al.		
	GD	US-20140261474-A1	09-18-2014	GONDA		
	GE	US-20140261479-A1	09-18-2014	Xu et al.		
	GF	US-20140261486-A1	09-18-2014	Potter et al.		
	GG	US-20140261487-A1	09-18-2014	Chapman et al.		
	GH	US-20140261488-A1	09-18-2014	Tucker		
	GI	US-20140261489-A1	09-18-2014	Cadieux et al.		
	GJ	US-20140261490-A1	09-18-2014	Kane		
	GK	US-20140261491-A1	09-18-2014	Hawes		
	GL	US-20140261492-A1	09-18-2014	Kane et al.		
	GM	US-20140261493-A1	09-18-2014	Smith et al.		
	GN	US-20140261494-A1	09-18-2014	Scatterday		
	GO	US-20140261495-A1	09-18-2014	Novak, III et al.		
	GP	US-20140261498-A1	09-18-2014	Liu		
	GQ	US-20140261499-A1	09-18-2014	Hon		
	GR	US-20140261500-A1	09-18-2014	Park		
	GS	US-20140270727-A1	09-18-2014	Ampolini et al.		
	GT	US-20140270729-A1	09-18-2014	DePiano et al.		
	GU	US-20140270730-A1	09-18-2014	DePiano et al.		
	GV	US-20140278250-A1	09-18-2014	Smith et al.		
	GW	US-20140278258-A1	09-18-2014	Shafer		
	GX	US-20140283823-A1	09-25-2014	Liu		
	GY	US-20140283855-A1	09-25-2014	Hawes et al.		
	GZ	US-20140283856-A1	09-25-2014	Xiang		
	HA	US-20140283857-A1	09-25-2014	Liu		
	HB	US-20140283858-A1	09-25-2014	Liu		
	HC	US-20140290676-A1	10-02-2014	Liu		
	HD	US-20140290677-A1	10-02-2014	Liu		
	HE	US-20140299137-A1	10-09-2014	Kieckbusch et al.		
	HF	US-20140299138-A1	10-09-2014	Xiang		
	HG	US-20140299139-A1	10-09-2014	Liu		
	HH	US-20140299140-A1	10-09-2014	Liu		
	HI	US-20140299141-A1	10-09-2014	FLICK		
	HJ	US-20140301721-A1	10-09-2014	Ruscio et al.		
	HK	US-20140305450-A1	10-16-2014	Xiang		
	HL	US-20140305451-A1	10-16-2014	Liu		
	HM	US-20140305452-A1	10-16-2014	Liu		
	HN	US-20140311503-A1	10-23-2014	Liu		
	HO	US-20140311504-A1	10-23-2014	Liu		
	HP	US-20140318560-A1	10-30-2014	Hon		
	HQ	US-20140321837-A1	10-30-2014	Flick		
	HR	US-20140332016-A1	11-13-2014	Bellinger et al.		

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	HS	US-20140332017-A1	11-13-2014	Liu	
	HT	US-20140332018-A1	11-13-2014	Liu	
	HU	US-20140332019-A1	11-13-2014	Liu	
	HV	US-20140332020-A1	11-13-2014	LI et al.	
	HW	US-20140332022-A1	11-13-2014	LI et al.	
	HX	US-20140334802-A1	11-13-2014	Dubief	
	HY	US-20140334803-A1	11-13-2014	LI et al.	
	HZ	US-20140334804-A1	11-13-2014	Choi	
	IA	US-20140338680-A1	11-20-2014	Abramov et al.	
	IB	US-20140338684-A1	11-20-2014	Liu	
	IC	US-20140338685-A1	11-20-2014	Amir	
	ID	US-20140345606-A1	11-27-2014	Talon	
	IE	US-20140345630-A1	11-27-2014	Lipowicz	
	IF	US-20140345631-A1	11-27-2014	Bowen et al.	
	IG	US-20140345632-A1	11-27-2014	SCATTERDAY	
	IH	US-20140345633-A1	11-27-2014	Talon et al.	
	II	US-20140345635-A1	11-27-2014	RABINOWITZ et al.	
	IJ	US-20140352707-A1	12-04-2014	Liu	
	IK	US-20140353856-A1	12-04-2014	Dubief	
	IL	US-20140355969-A1	12-04-2014	Stern	
	IM	US-20140360516-A1	12-11-2014	LIU	
	IN	US-20140366894-A1	12-18-2014	Liu	
	IO	US-20140366895-A1	12-18-2014	LI et al.	
	IP	US-20140366896-A1	12-18-2014	LI et al.	
	IQ	US-20140366897-A1	12-18-2014	Liu	
	IR	US-20140366898-A1	12-18-2014	MONSEES et al.	
	IS	US-20140366902-A1	12-18-2014	Chiolini et al.	
	IT	US-20140373833-A1	12-25-2014	LIU	
	IU	US-20140376895-A1	12-25-2014	Han	
	IV	US-20140378790-A1	12-25-2014	Cohen	
	IW	US-2015/0040925-A1	02-12-2015	Saleem et al.	
	IX	US-2015/0118895-A1	04-30-2015	Zheng et al.	
	IY	US-2015/0141093-A1	05-21-2015	Sela et al.	
	IZ	US-2015/0216236-A1	08-06-2015	Bless et al.	
	JA	US-2015/0250232-A1	09-10-2015	Hon	
	JB	US-20150000682-A1	01-01-2015	Liu	
	JC	US-20150000683-A1	01-01-2015	Liu	
	JD	US-20150007834-A1	01-08-2015	Liu	
	JE	US-20150007835-A1	01-08-2015	Liu	
	JF	US-20150007836-A1	01-08-2015	Li et al.	
	JG	US-20150013692-A1	01-15-2015	Liu	
	JH	US-20150013700-A1	01-15-2015	LIU	
	JI	US-20150013701-A1	01-15-2015	Liu	
	JJ	US-20150013702-A1	01-15-2015	LIU	
	JK	US-20150020822-A1	01-22-2015	Janardhan et al.	
	JL	US-20150020823-A1	01-22-2015	Lipowicz et al.	

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	JM	US-20150020824-A1	01-22-2015	Bowen et al.		
	JN	US-20150020825-A1	01-22-2015	Galloway et al.		
	JO	US-20150020826-A1	01-22-2015	Liu		
	JP	US-20150020827-A1	01-22-2015	Liu		
	JQ	US-20150020828-A1	01-22-2015	Liu		
	JR	US-20150020829-A1	01-22-2015	Ll		
	JS	US-20150020830-A1	01-22-2015	Koller		
	JT	US-20150020831-A1	01-22-2015	Weigensberg et al.		
	JU	US-20150020833-A1	01-22-2015	Conley et al.		
	JV	US-20150027454-A1	01-29-2015	Li et al.		
	JW	US-20150027455-A1	01-29-2015	Peleg et al.		
	JX	US-20150027456-A1	01-29-2015	Janardhan et al.		
	JY	US-20150027457-A1	01-29-2015	Janardhan et al.		
	JZ	US-20150027460-A1	01-29-2015	Liu		
	KA	US-20150027461-A1	01-29-2015	Liu		
	KB	US-20150027462-A1	01-29-2015	Liu		
	KC	US-20150027463-A1	01-29-2015	Liu		
	KD	US-20150027464-A1	01-29-2015	Liu		
	KE	US-20150027465-A1	01-29-2015	Liu		
	KF	US-20150027467-A1	01-29-2015	Liu		
	KG	US-20150027468-A1	01-29-2015	Li et al.		
	KH	US-20150027469-A1	01-29-2015	Tucker et al.		
	KI	US-20150027470-A1	01-29-2015	Kane et al.		
	KJ	US-20150027472-A1	01-29-2015	Amir		
	KK	US-20150027473-A1	01-29-2015	Graf		
	KL	US-20150034102-A1	02-05-2015	Faramarzian		
	KM	US-20150034103-A1	02-05-2015	Hon		
	KN	US-20150034104-A1	02-05-2015	Zhou		
	KO	US-20150034105-A1	02-05-2015	Liu		
	KP	US-20150034106-A1	02-05-2015	Liu		
	KQ	US-20150034107-A1	02-05-2015	Liu		
	KR	US-20150040927-A1	02-12-2015	Ll et al.		
	KS	US-20150040929-A1	02-12-2015	Hon		
	KT	US-20150047658-A1	02-19-2015	Cyphert et al.		
	KU	US-20150047659-A1	02-19-2015	Liu		
	KV	US-20150047660-A1	02-19-2015	Liu		
	KW	US-20150047661-A1	02-19-2015	Blackley et al.		
	KX	US-20150047662-A1	02-19-2015	Hopps		
	KY	US-20150047663-A1	02-19-2015	Liu		
	KZ	US-20150053215-A1	02-26-2015	Liu		
	LA	US-20150053216-A1	02-26-2015	Liu		
	LB	US-20150053217-A1	02-26-2015	Steingraber et al.		
	LC	US-20150053220-A1	02-26-2015	Levy et al.		
	LD	US-20150059779-A1	03-05-2015	Alarcon et al.		
	LE	US-20150059782-A1	03-05-2015	Liu		
	LF	US-20150059783-A1	03-05-2015	Liu		

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	LG	US-20150059784-A1	03-05-2015	Liu		
	LH	US-20150068543-A1	03-12-2015	Liu		
	LI	US-20150075545-A1	03-19-2015	Xiang		
	LJ	US-20150078735-A1	03-19-2015	Cormack		
	LK	US-20150083144-A1	03-26-2015	Xiang		
	LL	US-20150083145-A1	03-26-2015	LI et al.		
	LM	US-20150083147-A1	03-26-2015	Schiff et al.		
	LN	US-20150090253-A1	04-02-2015	Farrow		
	LO	US-20150090256-A1	04-02-2015	CHUNG		
	LP	US-20150090277-A1	04-02-2015	Xiang		
	LQ	US-20150090278-A1	04-02-2015	Schiff et al.		
	LR	US-20150090279-A1	04-02-2015	Chen		
	LS	US-20150090280-A1	04-02-2015	Chen		
	LT	US-20150090281-A1	04-02-2015	Chen		
	LU	US-20150101606-A1	04-16-2015	White		
	LV	US-20150101622-A1	04-16-2015	Liu		
	LW	US-20150101623-A1	04-16-2015	Liu		
	LX	US-20150101625-A1	04-16-2015	Newton et al.		
	LY	US-20150101626-A1	04-16-2015	LI et al.		
	LZ	US-20150107609-A1	04-23-2015	Liu		
	MA	US-20150107611-A1	04-23-2015	Metrangolo et al.		
	MB	US-20150114407-A1	04-30-2015	Duncan et al.		
	MC	US-20150114410-A1	04-30-2015	Doster		
	MD	US-20150117842-A1	04-30-2015	Brammer et al.		
	ME	US-20150122252-A1	05-07-2015	Frija		
	MF	US-20150122274-A1	05-07-2015	Cohen et al.		
	MG	US-20150128965-A1	05-14-2015	Lord		
	MH	US-20150128966-A1	05-14-2015	Lord		
	MI	US-20150128967-A1	05-14-2015	Robinson et al.		
	MJ	US-20150128970-A1	05-14-2015	Liu		
	MK	US-20150128971-A1	05-14-2015	Verleur et al.		
	ML	US-20150128972-A1	05-14-2015	Verleur et al.		
	MM	US-20150128973-A1	05-14-2015	LI et al.		
	MN	US-20150128974-A1	05-14-2015	Hon		
	MO	US-20150128976-A1	05-14-2015	Verleur et al.		
	MP	US-20150128977-A1	05-14-2015	LI et al.		
	MQ	US-20150136153-A1	05-21-2015	Lord		
	MR	US-20150136154-A1	05-21-2015	Mitrev et al.		
	MS	US-20150136155-A1	05-21-2015	Verleur et al.		
	MT	US-20150136156-A1	05-21-2015	Liu		
	MU	US-20150136157-A1	05-21-2015	LIU		
	MV	US-20150136158-A1	05-21-2015	Stevens et al.		
	MW	US-20150142387-A1	05-21-2015	Alarcon et al.		
	MX	US-20150144145-A1	05-28-2015	Chang et al.		
	MY	US-20150144147-A1	05-28-2015	LI et al.		
	MZ	US-20150144148-A1	05-28-2015	Chen		

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	NA	US-20150150303-A1	06-04-2015	Jensen		
	NB	US-20150150305-A1	06-04-2015	Shenkal		
	NC	US-20150150306-A1	06-04-2015	Chen		
	ND	US-20150150307-A1	06-04-2015	Liu		
	NE	US-20150150308-A1	06-04-2015	Monsees et al.		
	NF	US-20150157053-A1	06-11-2015	Mayor		
	NG	US-20150157054-A1	06-11-2015	Liu		
	NH	US-20150157055-A1	06-11-2015	Lord		
	NI	US-20150157056-A1	06-11-2015	Bowen et al.		
	NJ	US-20150163859-A1	06-11-2015	Schneider et al.		
	NK	US-20150164138-A1	06-18-2015	Liu		
	NL	US-20150164141-A1	06-18-2015	Newton		
	NM	US-20150164142-A1	06-18-2015	Li et al.		
	NN	US-20150164143-A1	06-18-2015	Maas		
	NO	US-20150164144-A1	06-18-2015	Liu		
	NP	US-20150164145-A1	06-18-2015	ZHOU		
	NQ	US-20150164146-A1	06-18-2015	LI et al.		
	NR	US-20150164147-A1	06-18-2015	Verleur et al.		
	NS	US-20150167976-A1	06-18-2015	Recio		
	NT	US-20150173124-A1	06-18-2015	Qiu		
	NU	US-20150173419-A1	06-25-2015	Tu		
	NV	US-20150173421-A1	06-25-2015	Hsieh		
	NW	US-20150173422-A1	06-25-2015	Liu		
	NX	US-20150181928-A1	07-02-2015	Liu		
	NY	US-20150181937-A1	07-02-2015	Dubief et al.		
	NZ	US-20150181939-A1	07-02-2015	Liu		
	OA	US-20150181940-A1	07-02-2015	Liu		
	OB	US-20150181941-A1	07-02-2015	Liu		
	OC	US-20150181943-A1	07-02-2015	LI et al.		
	OD	US-20150181944-A1	07-02-2015	LI et al.		
	OE	US-20150181945	07-02-2015	Tremblay		
	OF	US-20150184846-A1	07-02-2015	LIU		
	OG	US-20150189695-A1	07-02-2015	Xiang		
	OH	US-20150189918-A1	07-09-2015	Liu		
	OI	US-20150189919-A1	07-09-2015	Liu		
	OJ	US-20150189920-A1	07-09-2015	Liu		
	OK	US-20150196055-A1	07-16-2015	Liu		
	OL	US-20150196056-A1	07-16-2015	Liu		
	OM	US-20150196057-A1	07-16-2015	Wu		
	ON	US-20150196058-A1	07-16-2015	Lord		
	OO	US-20150196059-A1	07-16-2015	LIU		
	OP	US-20150196062-A1	07-16-2015	LI et al.		
	OQ	US-20150200385-A1	07-16-2015	LIU		
	OR	US-20150201674-A1	07-23-2015	Dooly et al.		
	OS	US-20150201675-A1	07-23-2015	Lord		
	OT	US-20150208724-A1	07-30-2015	WU		

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	OU	US-20150208725-A1	07-30-2015	TSAI	
	OV	US-20150208726-A1	07-30-2015	Liu	
	OW	US-20150208728-A1	07-30-2015	Lord	
	OX	US-20150208729	07-2015	Monsees et al.	
	OY	US-20150208731-A1	07-30-2015	MALAMUD et al.	
	OZ	US-20150216232-A1	08-06-2015	Bless et al.	
	PA	US-20150216233-A1	08-06-2015	Sears et al.	
	PB	US-20150216234-A1	08-06-2015	Chung	
	PC	US-20150216235-A1	08-06-2015	Liu	
	PD	US-20150223522-A1	08-13-2015	Ampolini et al.	
	PE	US-20150224268-A1	08-13-2015	Henry et al.	
	PF	US-20150230521-A1	08-20-2015	Talon	
	PG	US-20150237914-A1	08-27-2015	Han	
	PH	US-20150237916-A1	08-27-2015	Farine et al.	
	PI	US-20150237917-A1	08-27-2015	Lord	
	PJ	US-20150237918-A1	08-27-2015	Liu	
	PK	US-20150245654-A1	09-03-2015	MEMARI et al.	
	PL	US-20150245655-A1	09-03-2015	MEMARI et al.	
	PM	US-20150245657-A1	09-03-2015	MEMARI et al.	
	PN	US-20150245658-A1	09-03-2015	Worm et al.	
	PO	US-20150245659-A1	09-03-2015	DePiano et al.	
	PP	US-20150245661-A1	09-03-2015	Milin	
	PQ	US-20150245665-A1	09-03-2015	MEMARI et al.	
	PR	US-20150245666-A1	09-03-2015	MEMARI et al.	
	PS	US-20150245667-A1	09-03-2015	MEMARI et al.	
	PT	US-20150245668-A1	09-03-2015	MEMARI et al.	
	PU	US-20150245669-A1	09-03-2015	CADIEUX et al.	
	PV	US-20150257444-A1	09-17-2015	CHUNG	
	PW	US-20150257445-A1	09-17-2015	Henry, Jr. et al.	
	PX	US-20150257446-A1	09-17-2015	Chung	
	PY	US-20150257447-A1	09-17-2015	Sullivan	
	PZ	US-20150257449-A1	09-17-2015	Gabbay	
	QA	US-20150257451-A1	09-17-2015	Brannon et al.	
	QB	US-20150258289-A1	09-17-2015	Henry, JR. et al.	
	QC	US-20150272211-A1	10-01-2015	CHUNG	
	QD	US-20150272217-A1	10-01-2015	Chen	
	QE	US-20150272218-A1	10-01-2015	Chen	
	QF	US-20150272220-A1	10-01-2015	SPINKA et al.	
	QG	US-20150272221-A1	10-01-2015	Liu	
	QH	US-20150272222-A1	10-01-2015	Spinka et al.	
	QI	US-20150272223-A1	10-01-2015	WEIGENSBERG et al.	
	QJ	US-20150282525-A1	10-08-2015	Plojoux et al.	
	QK	US-20150282527-A1	10-08-2015	Henry, Jr.	
	QL	US-20150282529-A1	10-08-2015	LI et al.	
	QM	US-20150282530-A1	10-08-2015	Johnson et al.	
	QN	US-20150289567-A1	10-15-2015	LIU	

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	QO	US-20150296883-A1	10-22-2015	Wu		
	QP	US-20150296885-A1	10-22-2015	LIU		
	QQ	US-20150296886-A1	10-22-2015	LI et al.		
	QR	US-20150296887-A1	10-22-2015	Zhu		
	QS	US-20150296889-A1	10-22-2015	LIU		
	QT	US-20150305403-A1	10-29-2015	COELHO BELO FERNANDES DE CARVALHO		
	QU	US-20150305406-A1	10-29-2015	LI et al.		
	QV	US-20150305407-A1	10-29-2015	LI et al.		
	QW	US-20150305408-A1	10-29-2015	LIU		
	QX	US-20150305409-A1	10-29-2015	Verleur et al.		
	QY	US-20150313275-A1	11-05-2015	ANDERSON et al.		
	QZ	US-20150313282-A1	11-05-2015	Ademe et al.		
	RA	US-20150313283-A1	11-05-2015	Collett et al.		
	RB	US-20150313284-A1	11-05-2015	Liu		
	RC	US-20150313287-A1	11-05-2015	VERLEUR et al.		
	RD	US-20150313288-A1	11-05-2015	LIU		
	RE	US-20150320114-A1	11-12-2015	WU		
	RF	US-20150320116-A1	11-12-2015	Bleloch et al.		
	RG	US-20150327595-A1	11-19-2015	Scatterday		
	RH	US-20150327596-A1	11-19-2015	Alarcon et al.		
	RI	US-20150327597-A1	11-19-2015	LI et al.		
	RJ	US-20150328415-A1	11-19-2015	Minskoff et al.		
	RK	US-20150335071-A1	11-26-2015	Brinkley et al.		
	RL	US-20150335074-A1	11-26-2015	Leung		
	RM	US-20150335075-A1	11-26-2015	Minskoff et al.		
	RN	US-20150342254-A1	12-03-2015	MIRONOV et al.		
	RO	US-20150342255-A1	12-03-2015	Wu		
	RP	US-20150342256-A1	12-03-2015	Chen		
	RQ	US-20150342257-A1	12-03-2015	Chen		
	RR	US-20150342259-A1	12-03-2015	BAKER et al.		
	RS	US-20150351454-A1	12-10-2015	Huang		
	RT	US-20150351455-A1	12-10-2015	LIU		
	RU	US-20150351456-A1	12-10-2015	Johnson et al.		
	RV	US-20150351457-A1	12-10-2015	Liu		
	RW	US-20150357608-A1	12-10-2015	Huang		
	RX	US-20150357839-A1	12-10-2015	Cai et al.		
	RY	US-20150359261-A1	12-17-2015	LI et al.		
	RZ	US-20150359262-A1	12-17-2015	Liu et al.		
	SA	US-20150359263-A1	12-17-2015	BELLINGER		
	SB	US-20150359265-A1	12-17-2015	LIU		
	SC	US-20150366265-A1	12-24-2015	Lansing		
	SD	US-20150366266-A1	12-24-2015	Chen		
	SE	US-20150366267-A1	12-24-2015	LIU		
	SF	US-20150374039-A1	12-31-2015	Zhu		
	SG	US-20150374040-A1	12-31-2015	Chen		

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	SH	US-2016/0044963-A1	02-18-2016	SALEEM	
	SI	US-2016/0353804-A1	12-08-2016	LORD	
	SJ	US-20160000147-A1	01-07-2016	LI et al.	
	SK	US-20160000148-A1	01-07-2016	LIU	
	SL	US-20160000149-A1	01-07-2016	SCATTERDAY	
	SM	US-20160007650-A1	01-14-2016	Duncan et al.	
	SN	US-20160007654-A1	01-14-2016	Zhu	
	SO	US-20160007655-A1	01-14-2016	LI et al.	
	SP	US-20160015082-A1	01-21-2016	LIU	
	SQ	US-20160021930-A1	01-28-2016	Minskoff et al.	
	SR	US-20160021931-A1	01-28-2016	HAWES et al.	
	SS	US-20160021933-A1	01-28-2016	THORENS et al.	
	ST	US-20160021934-A1	01-28-2016	CADIEUX et al.	
	SU	US-20160029697-A1	02-04-2016	SHAFER	
	SV	US-20160029698-A1	02-04-2016	XIANG	
	SW	US-20160029699-A1	02-04-2016	LI et al.	
	SX	US-20160029700-A1	02-04-2016	LI et al.	
	SY	US-20160044961-A1	02-18-2016	LIU	
	SZ	US-20160044964-A1	02-18-2016	LIU	
	TA	US-20160044965-A1	02-18-2016	LIU	
	TB	US-20160044966-A1	02-18-2016	LI et al.	
	TC	US-20160044967-A1	02-18-2016	Bowen et al.	
	TD	US-20160044968-A1	02-18-2016	Bowen et al.	
	TE	US-20160053988-A1	02-25-2016	Quintana	
	TF	US-20160057811-A1	02-25-2016	Alarcon et al.	
	TG	US-20160058071-A1	03-03-2016	HEARN	
	TH	US-20160058072-A1	03-03-2016	LIU	
	TI	US-20160058073-A1	03-03-2016	Chen	
	TJ	US-20160058074-A1	03-03-2016	LIU	
	TK	US-20160073690-A1	03-17-2016	LIU	
	TL	US-20160073691-A1	03-17-2016	Liu	
	TM	US-20160073692-A1	03-17-2016	Alarcon et al.	
	TN	US-20160073693-A1	03-17-2016	REEVELL	
	TO	US-20160073694-A1	03-17-2016	LIU	
	TP	US-20160080469-A1	03-17-2016	LIU	
	TQ	US-20160081393-A1	03-24-2016	Black	
	TR	US-20160081395-A1	03-24-2016	THORENS et al.	
	TS	US-20160088874-A1	03-31-2016	LIPOWICZ	
	TT	US-20160089508-A1	03-31-2016	Smith et al.	
	TU	US-20160095352-A1	04-07-2016	LIU	
	TV	US-20160095353-A1	04-07-2016	LIU	
	TW	US-20160095354-A1	04-07-2016	WU	
	TX	US-20160095355-A1	04-07-2016	HEARN	
	TY	US-20160095356-A1	04-07-2016	Chan	
	TZ	US-20160095357-A1	04-07-2016	BURTON	
	UA	US-20160100632-A1	04-14-2016	Debono et al.	

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	UB	US-20160106151-A1	04-21-2016	SWEPSTON et al.		
	UC	US-20160106152-A1	04-21-2016	Liu		
	UD	US-20160106154-A1	04-21-2016	Lord		
	UE	US-20160106155-A1	04-21-2016	REEVELL		
	UF	US-20160106156-A1	04-21-2016	QIU		
	UG	US-20160106936-A1	04-21-2016	Kimmel		
	UH	US-20160109115-A1	04-21-2016	LIPOWICZ		
	UI	US-20160113325-A1	04-28-2016	LIU		
	UJ	US-20160113326-A1	04-28-2016	LI et al.		
	UK	US-20160113327-A1	04-28-2016	Wu		
	UL	US-20160120218-A1	05-05-2016	SCHENNUM et al.		
	UM	US-20160120220-A1	05-05-2016	MALGAT et al.		
	UN	US-20160120222-A1	05-05-2016	BAGAI et al.		
	UO	US-20160120223-A1	05-05-2016	KEEN et al.		
	UP	US-20160120224-A1	05-05-2016	MISHRA et al.		
	UQ	US-20160120225-A1	05-05-2016	MISHRA et al.		
	UR	US-20160120228-A1	05-05-2016	ROSTAMI et al.		
	US	US-20160121058-A1	05-05-2016	Chen		
	UT	US-20160128384-A1	05-12-2016	LUCIANI et al.		
	UU	US-20160128385-A1	05-12-2016	Lin		
	UV	US-20160128387-A1	05-12-2016	Chen		
	UW	US-20160128388-A1	05-12-2016	LIU		
	UX	US-20160128390-A1	05-12-2016	LIU		
	UY	US-20160135501-A1	05-19-2016	LIU		
	UZ	US-20160135503-A1	05-19-2016	LIU		
	VA	US-20160135507-A1	05-19-2016	THORENS et al.		
	VB	US-20160143354-A1	05-26-2016	Liu		
	VC	US-20160143357-A1	05-26-2016	LIU		
	VD	US-20160143359-A1	05-26-2016	Xiang		
	VE	US-20160143365-A1	05-26-2016	LIU		
	VF	US-20160150821-A1	06-02-2016	LIU		
	VG	US-20160150824-A1	06-02-2016	MEMARI et al.		
	VH	US-20160150826-A1	06-02-2016	Liu		
	VI	US-20160150827-A1	06-02-2016	Liu		
	VJ	US-20160157523-A1	06-09-2016	LIU		
	VK	US-20160157525-A1	06-09-2016	TUCKER et al.		
	VL	US-20160174609-A1	06-23-2016	MIRONOV		
	VM	US-20160174611-A1	06-23-2016	MONSEES et al.		
	VN	US-20160183593-A1	06-30-2016	Liu		
	VO	US-20160183594-A1	06-30-2016	Liu		
	VP	US-20160192705-A1	07-07-2016	BORKOVEC et al.		
	VQ	US-20160192706-A1	07-07-2016	Kananen		
	VR	US-20160198765-A1	07-14-2016	Liu		
	VS	US-20160198766-A1	07-14-2016	Liu		
	VT	US-20160198767-A1	07-14-2016	Verleur		
	VU	US-20160198768-A1	07-14-2016	Liu		

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	VV	US-20160198769-A1	07-14-2016	Liu		
	VW	US-20160198770-A1	07-14-2016	Alarcon		
	VX	US-20160205999-A1	07-21-2016	LIU		
	VY	US-20160206000-A1	07-21-2016	Lord et al.		
	VZ	US-20160211693-A1	07-21-2016	STEVENS et al.		
	WA	US-20160213061-A1	07-28-2016	Liu		
	WB	US-20160213066-A1	07-28-2016	Zitzke et al.		
	WC	US-20160213067-A1	07-28-2016	Hon		
	WD	US-20160219938-A1	08-04-2016	MAMOUN et al.		
	WE	US-20160227840-A1	08-11-2016	XIANG		
	WF	US-20160227842-A1	08-11-2016	XIANG		
	WG	US-20160235119-A1	08-18-2016	LIU		
	WH	US-20160235120-A1	08-18-2016	Liu		
	WI	US-20160235121-A1	08-18-2016	ROGAN et al.		
	WJ	US-20160235125-A1	08-18-2016	Safari		
	WK	US-20160242463-A1	08-25-2016	LIU		
	WL	US-20160242464-A1	08-25-2016	LIU		
	WM	US-20160242465-A1	08-25-2016	ZHENG et al.		
	WN	US-20160242466-A1	08-25-2016	Lord et al.		
	WO	US-20160242468-A1	08-25-2016	LIU		
	WP	US-20160249680-A1	09-01-2016	LIU		
	WQ	US-20160249682-A1	09-01-2016	LEADLEY et al.		
	WR	US-20160262449-A1	09-15-2016	Liu		
	WS	US-20160262450-A1	09-15-2016	Liu		
	WT	US-20160262451-A1	09-15-2016	LIU		
	WU	US-20160262452-A1	09-15-2016	Zhu		
	WV	US-20160262459-A1	09-15-2016	MONSEES et al.		
	WW	US-20160270442-A1	09-22-2016	Liu		
	WX	US-20160270443-A1	09-22-2016	LIU		
	WY	US-20160270444-A1	09-22-2016	Lin		
	WZ	US-20160270445-A1	09-22-2016	Liu		
	XA	US-20160278163-A1	09-22-2016	Chen		
	XB	US-20160278431-A1	09-29-2016	Liu		
	XC	US-20160278432-A1	09-29-2016	Liu		
	XD	US-20160278433-A1	09-29-2016	Xiang		
	XE	US-20160278434-A1	09-29-2016	LIU		
	XF	US-20160278435-A1	09-29-2016	CHOUKROUN et al.		
	XG	US-20160278436-A1	09-29-2016	Verleur et al.		
	XH	US-20160285983-A1	09-29-2016	Liu		
	XI	US-20160286856-A1	10-06-2016	Liu		
	XJ	US-20160286858-A1	10-06-2016	Liu		
	XK	US-20160286859-A1	10-06-2016	LIU		
	XL	US-20160286862-A1	10-06-2016	Silvetrini		
	XM	US-20160286863-A1	10-06-2016	Lin		
	XN	US-20160286864-A1	10-06-2016	LIN		
	XO	US-20160286865-A1	10-06-2016	KING et al.		

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	XP	US-20160295917-A1	10-13-2016	MALGAT et al.	
	XQ	US-20160295918-A1	10-13-2016	LIU	
	XR	US-20160295922-A1	10-13-2016	John et al.	
	XS	US-20160295923-A1	10-13-2016	LIN	
	XT	US-20160295924-A1	10-13-2016	Liu	
	XU	US-20160295926-A1	10-13-2016	ZUBER	
	XV	US-20160302485-A1	10-20-2016	ALIMA	
	XW	US-20160309779-A1	10-27-2016	Liu	
	XX	US-20160309783-A1	10-27-2016	HOPPS et al.	
	XY	US-20160309784-A1	10-27-2016	SILVESTRINI et al.	
	XZ	US-20160309789-A1	10-27-2016	Thomas, JR.	
	YA	US-20160316818-A1	11-03-2016	LIU	
	YB	US-20160316820-A1	11-03-2016	Liu	
	YC	US-20160316821-A1	11-03-2016	LIU	
	YD	US-20160316822-A1	11-03-2016	LIU	
	YE	US-20160324213-A1	11-10-2016	LIU	
	YF	US-20160324215-A1	11-10-2016	MIRONOV et al.	
	YG	US-20160324218-A1	11-10-2016	Wang et al.	
	YH	US-20160331032-A1	11-17-2016	MALGAT et al.	
	YI	US-20160331033-A1	11-17-2016	HOPPS et al.	
	YJ	US-20160331038-A1	11-17-2016	FARINE et al.	
	YK	US-20160331039-A1	11-17-2016	THORENS et al.	
	YL	US-20160331040-A1	11-17-2016	NAKANO et al.	
	YM	US-20160338402-A1	11-24-2016	BUEHLER et al.	
	YN	US-20160338405-A1	11-24-2016	Liu	
	YO	US-20160338406-A1	11-24-2016	Liu	
	YP	US-20160338411-A1	11-24-2016	Liu	
	YQ	US-20160338412-A1	11-24-2016	MONSEES et al.	
	YR	US-20160345625-A1	12-01-2016	LIU	
	YS	US-20160345627-A1	12-01-2016	Liu	
	YT	US-20160345630-A1	12-01-2016	MIRONOV et al.	
	YU	US-20160345631-A1	12-01-2016	MONSEES et al.	
	YV	US-20160345633-A1	12-01-2016	DePiano et al.	
	YW	US-20160345634-A1	12-01-2016	Fernando et al.	
	YX	US-20160345636-A1	12-01-2016	LIU	
	YY	US-20160353798-A1	12-08-2016	LIU	
	YZ	US-20160360784-A1	12-15-2016	LIU	
	ZA	US-20160360792-A1	12-15-2016	LIU	
	ZB	US-20160360793-A1	12-15-2016	LIU	
	ZC	US-20160366927-A1	12-22-2016	LIU	
	ZD	US-20160366935-A1	12-22-2016	LIU	
	ZE	US-20160366936-A1	12-22-2016	LIU	
	ZF	US-20160366937-A1	12-22-2016	LIU	
	ZG	US-20160366939-A1	12-22-2016	Alarcon et al.	
	ZH	US-20160366940-A1	12-22-2016	Liu	
	ZI	US-20160366941-A1	12-22-2016	Lin	

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	ZJ	US-20160366942-A1	12-22-2016	Liu	
	ZK	US-20160366947-A1	12-22-2016	MONSEES et al.	
	ZL	US-20160371437-A1	12-22-2016	Alarcon et al.	
	ZM	US-20160374391-A1	12-29-2016	LIU	
	ZN	US-20160374392-A1	12-29-2016	Liu	
	ZO	US-20160374393-A1	12-29-2016	CHEN	
	ZP	US-20160374398-A1	12-29-2016	AMIR	
	ZQ	US-20160374399-A1	12-29-2016	MONSEES et al.	
	ZR	US-20160374400-A1	12-29-2016	MONSEES et al.	
	ZS	US-20160374401-A1	12-29-2016	LIU	
	ZT	US-2017/0197046-A1	07-13-2017	BUCHBERGER	
	ZU	US-20170006916-A1	01-12-2017	LIU	
	ZV	US-20170006919-A1	01-12-2017	Liu	
	ZW	US-20170006920-A1	01-12-2017	Liu	
	ZX	US-20170006921-A1	01-12-2017	LEMAY et al.	
	ZY	US-20170013882-A1	01-19-2017	LIU	
	ZZ	US-20170013885-A1	01-19-2017	QIU	
		US-20170019951-A1	01-19-2017	LOUVEAU et al.	
		US-20170020194-A1	01-26-2017	REHDERS	
		US-20170020201-A1	01-26-2017	XIANG	
		US-20170027221-A1	02-02-2017	LIU	
		US-20170027233-A1	02-02-2017	MIRONOV	
		US-20170027234-A1	02-02-2017	FARINE et al.	
		US-20170033568-A1	02-02-2017	HOLZHERR	
		US-20170035101-A1	02-09-2017	Balder	
		US-20170035109-A1	02-09-2017	LIU	
		US-20170035111-A1	02-09-2017	Slurink et al.	
		US-20170035114-A1	02-09-2017	LORD	
		US-20170035115-A1	02-09-2017	MONSEES et al.	
		US-20170035117-A1	02-09-2017	Lin	
		US-20170035118-A1	02-09-2017	Liu	
		US-20170042229-A1	02-16-2017	LIU	
		US-20170042242-A1	02-16-2017	HON	
		US-20170042243-A1	02-16-2017	PLOJOUX et al.	
		US-20170042247-A1	02-16-2017	XIANG	
		US-20170042248-A1	02-16-2017	XIANG	
		US-20170049149-A1	02-23-2017	Carty	
		US-20170049152-A1	02-23-2017	LIU	
		US-20170049154-A1	02-23-2017	BATISTA	
		US-20170049155-A1	02-23-2017	LIU	
		US-20170055586-A1	03-02-2017	LIU	
		US-20170055589-A1	03-02-2017	FERNANDO et al.	
		US-20170064999-A1	03-09-2017	PEREZ et al.	
		US-20170065000-A1	03-09-2017	Sears et al.	
		US-20170071252-A1	03-16-2017	Liu	
		US-20170071256-A1	03-16-2017	VERLEUR et al.	

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		US-20170071257-A1	03-16-2017	Lin	
		US-20170079110-A1	03-16-2017	Plattner	
		US-20170079329-A1	03-23-2017	ZITZKE	
		US-20170079330-A1	03-23-2017	MIRONOV et al.	
		US-20170079331-A1	03-23-2017	MONSEES et al.	
		US-20170086498-A1	03-30-2017	DARYANI	
		US-20170086502-A1	03-30-2017	HEARN et al.	
		US-20170094998-A1	04-06-2017	BERNAUER et al.	
		US-20170094999-A1	04-06-2017	HEARN et al.	
		US-20170095000-A1	04-06-2017	Spirito et al.	
		US-20170095001-A1	04-06-2017	Liu	
		US-20170095002-A1	04-06-2017	SILVESTRINI	
		US-20170095003-A1	04-06-2017	MIRONOV	
		US-20170095004-A1	04-06-2017	LIU	
		US-20170095005-A1	04-06-2017	MONSEES et al.	
		US-20170099880-A1	04-13-2017	HAWES	
		US-20170105449-A1	04-20-2017	HEARN et al.	
		US-20170105450-A1	04-20-2017	REED et al.	
		US-20170105452-A1	04-20-2017	MIRONOV et al.	
		US-20170109877-A1	04-20-2017	PELEG et al.	
		US-20170112197-A1	04-27-2017	LI et al.	
		US-20170113819-A1	04-27-2017	Marz	
		US-20170119055-A1	05-04-2017	LIU	
		US-20170119057-A1	05-04-2017	Liu	
		US-20170127724-A1	05-11-2017	LIU	
		US-20170127726-A1	05-11-2017	XIANG	
		US-20170135400-A1	05-18-2017	Liu	
		US-20170135401-A1	05-18-2017	DICKENS	
		US-20170135402-A1	05-18-2017	ZITZKE	
		US-20170135403-A1	05-18-2017	LIU	
		US-20170143038-A1	05-25-2017	DICKENS	
		US-20170143040-A1	05-25-2017	LIU	
		US-20170143043-A1	05-25-2017	LIU	
		US-20170143917-A1	05-25-2017	Cohen et al.	
		US-20170150754-A1	06-01-2017	Lin	
		US-20170150755-A1	06-01-2017	BATISTA	
		US-20170156400-A1	06-08-2017	Liu	
		US-20170156401-A1	06-08-2017	LIU	
		US-20170156402-A1	06-08-2017	LIU	
		US-20170156403-A1	06-08-2017	Gill et al.	
		US-20170156404-A1	06-08-2017	Novak, III et al.	
		US-20170162979-A1	06-08-2017	Liu	
		US-20170164655-A1	06-15-2017	CHEN	
		US-20170164658-A1	06-15-2017	Lin et al.	
		US-20170172207-A1	06-22-2017	Liu	
		US-20170172213-A1	06-22-2017	Hon	

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		US-20170181468-A1	06-29-2017	BOWEN et al.	
		US-20170188629-A1	07-06-2017	DICKENS et al.	
		US-20170188632-A1	07-06-2017	HON	
		US-20170188634-A1	07-06-2017	PLOJOUX et al.	
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		US-20170325503-A1	11-16-2017	Liu	
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		US-20180070649-A1	03-15-2018	Monsees et al.	
		US-20180092399-A1	04-05-2018	KIESLICH	
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		US-8,707,965	04-29-2014	Newton	
		US-8,714,150-B2	05-06-2014	Alelov	
		US-8,714,161-B2	05-06-2014	Liu	
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		US-8,752,557-B2	06-17-2014	Lipowicz	
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		US-8,770,187-B2	07-08-2014	Murphy	
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		US-8,948,578	02-03-2015	Buchberger	
		US-8,950,395-B2	02-10-2015	Schennum	
		US-8,955,522-B1	02-17-2015	Bowen et al.	
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		US-9,078,475-B2	07-14-2015	Li et al.	
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		US-9,113,659-B2	08-25-2015	Liu	
		US-9,131,733-B2	09-15-2015	Liu	
		US-9,155,336	10-13-2015	Liu	
		US-9,167,852	10-27-2015	Xiu	
		US-9,185,937	11-17-2015	Liu	
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		US-9,204,670	12-08-2015	Liu	
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		US-9,220,303	12-29-2015	Li et al.	
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		US-9,277,768	03-08-2016	Xiu	
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		US-9,350,102	05-24-2016	Wu	
		US-9,351,522	05-31-2016	Safari	
		US-9,364,025	06-14-2016	Liu	
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		US-9,364,800	06-14-2016	Dubief	
		US-9,379,364	06-28-2016	Alima	

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		US-9,380,812	07-05-2016	Chung	
		US-9,408,416	08-09-2016	Monsees et al.	
		US-9,414,627	08-16-2016	Liu	
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		US-9,427,022	08-30-2016	Levin et al.	
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		US-9,427,024	08-30-2016	Liu	
		US-9,427,025	08-30-2016	Liu	
		US-9,427,026	08-30-2016	Wu	
		US-9,439,455	09-13-2016	Alarcon et al.	
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		US-9,451,793	09-27-2016	Zhou	
		US-9,456,632	10-04-2016	Hon	
		US-9,456,633	10-04-2016	Liu	
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		US-9,462,832	10-11-2016	Lord	
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		US-9,480,286	11-01-2016	Liu	
		US-9,497,994	11-22-2016	Liu	
		US-9,497,995	11-22-2016	Liu	
		US-9,497,997	11-22-2016	Wu	
		US-9,497,998	11-22-2016	Chen	
		US-9,497,999	11-22-2016	Lord	
		US-9,504,279	11-29-2016	Chen	
		US-9,510,624	12-06-2016	Li et al.	
		US-9,516,898	12-13-2016	Liu	
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		US-9,526,272	12-27-2016	Liu	
		US-9,526,273	12-27-2016	Liu	
		US-9,532,598	01-03-2017	Liu	
		US-9,532,599	01-03-2017	Liu	
		US-9,532,601	01-03-2017	Liu	
		US-9,532,602	01-03-2017	Liu	
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		US-9,554,596	01-31-2017	Liu	
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		US-9,572,372	02-21-2017	Liu	
		US-9,572,373	02-21-2017	Chen	
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		US-9,596,886	03-21-2017	Liu	
		US-9,596,887	03-21-2017	Newton	
		US-9,603,198	03-21-2017	Liu	
		US-9,603,386	03-28-2017	Xiang	
		US-9,603,387	03-28-2017	Liu	
		US-9,603,389	03-28-2017	Chen	
		US-9,603,390	03-28-2017	Li et al.	
		US-9,615,605	04-11-2017	Liu	
		US-9,615,607	04-11-2017	Liu	
		US-9,622,511	04-18-2017	Zhu	
		US-9,627,661	04-18-2017	Liu	
		US-9,629,394	04-25-2017	Aronie et al.	
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		US-9,642,396	05-09-2017	Liu	
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		US-9,648,905	05-16-2017	Levitz et al.	
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		US-9,675,114	06-13-2017	Timmermans	
		US-9,675,116	06-13-2017	Liu	
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		US-9,693,588	07-04-2017	Zhu	
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		US-9,700,075	07-11-2017	Liu	
		US-9,700,076	07-11-2017	Xiang	
		US-9,713,346	07-25-2017	Hon	
		US-9,717,274	08-01-2017	Daehne et al.	
		US-9,717,275	08-01-2017	Liu	
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		US-9,717,278	08-01-2017	Hon	
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		US-9,723,872	08-08-2017	Liu	
		US-9,723,873	08-08-2017	Liu	
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		US-9,723,875	08-08-2017	Liu	
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		US-D720095	12-23-2014	Alima	
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		US-D720882	01-06-2015	Albanese	
		US-D720883	01-06-2015	Albanese	
		US-D725310	03-24-2015	Eksouzian	
		US-D728855	05-05-2015	Liu	
		US-D729366	05-12-2015	Kauss et al.	
		US-D743099	11-10-2015	Oglesby	
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	HC	WO-2015120591-A1	08-20-2015	Kimree Hi Tech Inc		
	HD	WO-2015120623-A1	08-20-2015	Kimree Hi Tech Inc		
	HE	WO-2015123831-A1	08-27-2015	Kimree Hi Tech Inc		
	HF	WO-2015128499-A1	09-03-2015	Xeo Holding GmbH		
	HG	WO-2015137815-A1	09-17-2015	Kyriakopoulos, Dimitri		
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	HT	WO-2015154309-A1	10-15-2015	Shenzhen Kanger Technology Co Ltd		
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	16/119,359
				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
(Use as many sheets as necessary)				Examiner Name	M. M. Ahmed
Sheet	33	of	36	Attorney Docket Number	055755-402C02US

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				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
Sheet	34	of	36	Attorney Docket Number	055755-402C02US

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				First Named Inventor	Jan Andries Verleur
				Art Unit	3736
				Examiner Name	M. M. Ahmed
Sheet	35	of	36	Attorney Docket Number	055755-402C02US

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				Art Unit	3736
(Use as many sheets as necessary)				Examiner Name	M. M. Ahmed
Sheet	36	of	36	Attorney Docket Number	055755-402C02US

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	MO	WO-9817131-A1	04-30-1998	Philip Morris Prod		

Examiner Signature	/MOHAMED K AHMED ALI/	Date Considered	07/29/2019

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

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]

Examiner Signature	/MOHAMED K AHMED ALI/	Date Considered	07/29/2019

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

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Application Serial No. 16/119,359
Interview January 9, 2020 Agenda

Agenda:

Discuss independent claims 1, 11, and 17 (set forth below) in view of cited art

1) **Rejection of claim 1 under 35 U.S.C. 103** over Lord (US20150157055) in view of Sears (US20140096781) and Monsees (20130042865)
   a) The cited art fails to disclose or suggest the heating element is entirely disposed within the chamber of the cartomizer receiving segment when the cartomizer is inserted into the chamber.

2) **Rejection of claim 11 under 35 U.S.C. 103** over Lord (US20150157055) in view of Sears (US20140096781) and Liu (20140150783)

a) Lord fails to disclose or suggest a battery portion having a cartomizer receiving segment defining a chamber and a cartomizer insertable into the chamber;

i) In Lord, the battery portion 5 does not have a chamber wherein a cartomizer is insertable into the chamber. In Lord, the cartomizer (the vaporiser 6) is not insertable into a chamber of the battery portion (battery assembly 5.) Rather, the components in Lord (mouthpiece 2, vaporiser 6, and battery assembly 5) attach to one another in an end-to-end fashion and are not insertable into any chambers of the components. See Figure 2 of Lord below.

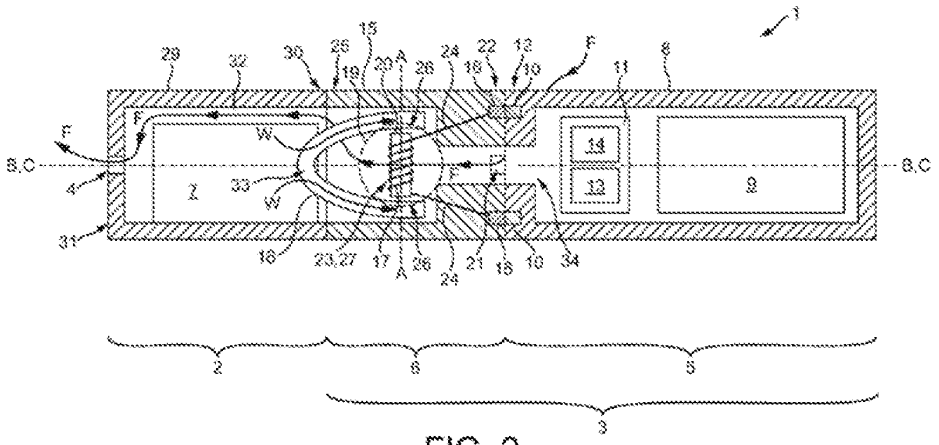


FIG. 2

b) In Sears, the battery portion (control body 80) also does not have a chamber wherein the cartomizer (cartridge 90) is insertable into the chamber. In Sears, the battery portion inserts into the cartomizer. See Figure 3 of Sears below.

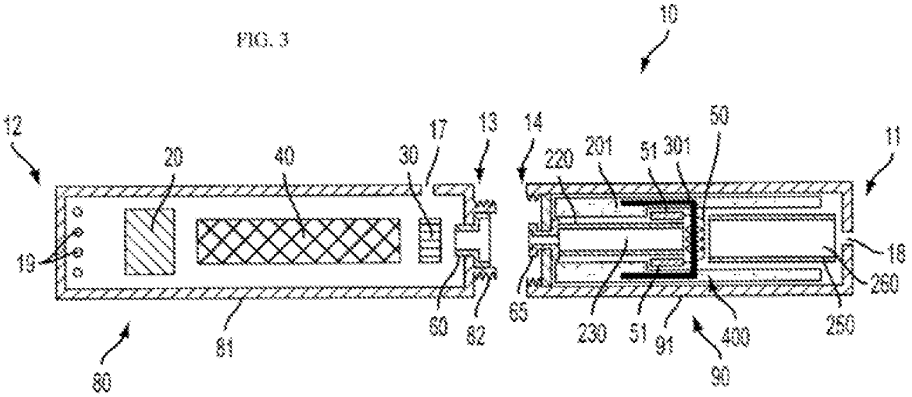


FIG. 3

c) Regarding Liu, Liu does not disclose or suggest a single outer wall that collectively forms both the battery housing segment and the cartomizer receiving segment. Rather, Liu requires that the cartomizer receiving segment (connector 92) be a separate, detachable structure from the battery housing segment (power rod 95). See Figure 2 of Liu below.

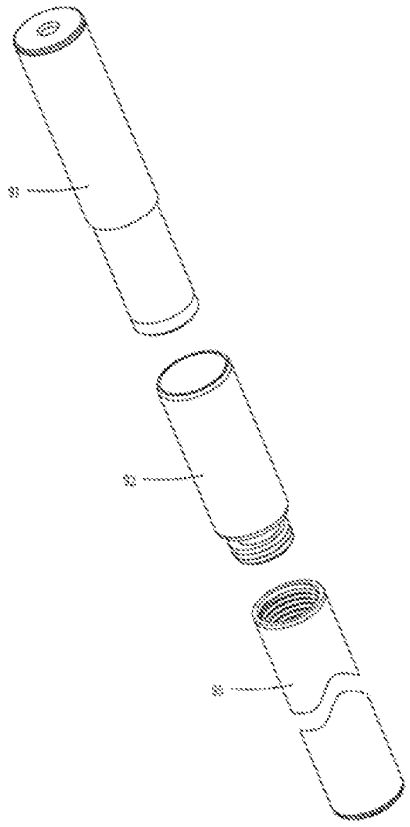


FIG. 2

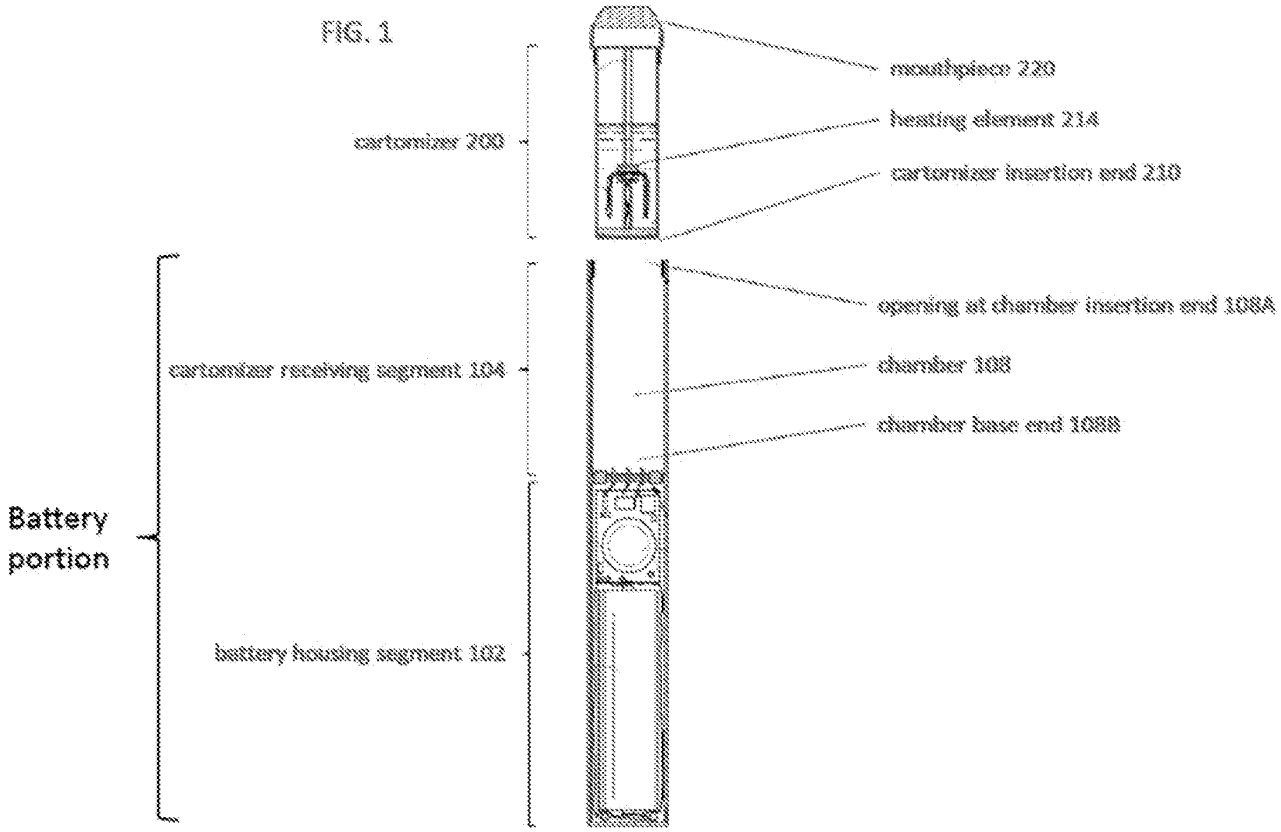
d) In addition, there is no motivation or suggestion to modify Lord to include a magnet and a metal element for coupling with the at least one magnet of the battery portion. In Lord the vaporiser casing 15 connects to the battery assembly casing 8 by a threaded connection. (Lord at [0058].) The threaded connection provides a secure connection so there is no need to modify Lord to include a magnet and a metal element.

3) **Rejection of claim 17 under 35 U.S.C. 103** over Lord (US20150157055) in view of Sears (US20140096781)

   a) Similar with respect to claim 1 (discussed above), Lord fails to disclose or suggest a battery portion having a cartomizer receiving segment defining a chamber and a cartomizer insertable into the chamber;

   b) In Sears, the battery portion (control body 80) also does not have a chamber wherein the cartomizer (cartridge 90) is insertable into the chamber. In Sears, the battery portion inserts into cartomizer.

FIG. 1


mouthpiece 220
heating element 214
cartomizer insertion end 210
cartomizer 200
opening at chamber insertion end 108A
chamber 108
chamber base end 108B
cartomizer receiving segment 104
Battery portion
battery housing segment 102

Independent claims

1. (Currently amended) A vaporizer comprising:

a battery portion comprising a battery housing segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery housing segment and a base end proximate to the battery housing segment, the battery portion further comprising a plurality of charger electrical contacts to provide electrical charge to a battery housed in the battery housing segment, the charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid; and

a heating element provided within the ~~basin~~ body in contact with the wicking element and operable to heat the vaporizable fluid, wherein the heating element is entirely disposed within the chamber of the cartomizer receiving segment when the cartomizer is inserted into the chamber.

11. (Currently amended) A vaporizer comprising:

a battery portion comprising:

a battery housing segment;

a cartomizer receiving segment defining a chamber having an insertion end ~~at the second end of the battery portion and~~ distal from the battery housing segment, the chamber further having a base end proximate to the battery housing segment, wherein a single outer wall collectively forms both the battery housing segment and the cartomizer receiving segment;

a plurality of charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the chamber, the insertion end of the chamber being at a second end of the battery portion; and

at least one magnet in or proximate to the chamber; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid;

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable fluid, wherein the heating element is entirely disposed within the chamber of the cartomizer receiving segment when the cartomizer is inserted into the chamber; and

a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

17. (Previously Presented) A vaporizer comprising:

a battery portion comprising:

a plurality of charger electrical contacts disposed at a first end of the battery portion;

a battery housing segment for housing a battery between the first end of the battery portion and a second end of the battery portion;

a cartomizer receiving segment defining a chamber having an insertion end at the second end of the battery portion and distal from the battery housing segment, the chamber further having a base end proximate to the battery housing segment; and

one or more battery electrical contacts in or proximate the chamber of the cartomizer receiving segment; and

a cartomizer insertable into the insertion end of the chamber, the cartomizer comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid;

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable fluid; and

one or more cartomizer electrical contacts for connecting with the one or more battery electrical contacts in or proximate the chamber.

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16/119,359	08/31/2018	Jan Andries Verleur	55755-402C02US/301	7336

148514 7590 01/16/2020

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER	
AHMED ALI, MOHAMED K	

ART UNIT	PAPER NUMBER
1743	

NOTIFICATION DATE	DELIVERY MODE
01/16/2020	ELECTRONIC

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

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

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

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com

NJOY Exhibit 1007.295

Notice of References Cited	Application/Control No. 16/119,359	Applicant(s)/Patent Under Reexamination Verleur et al.	
	Examiner MOHAMED K AHMED ALI	Art Unit 1743	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20130284194-A1	10-2013	Newton; Kyle D.	A24F47/008	131/329
	B					
	C					
	D					
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	N					
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	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

NJOY Exhibit 1007.296

Applicant-Initiated Interview Summary	**Application No.** 16/119,359	**Applicant(s)** Verleur et al.		
	Examiner MOHAMED K AHMED ALI	**Art Unit** 1743	**AIA (First Inventor to File) Status** Yes	**Page** **1 of** 2

All participants (applicant, applicants representative, PTO personnel):

1. MOHAMED K AHMED ALI (Examiner); Telephonic 2. Fred Hernandez (Attorney of Record); Telephonic

Date of Interview: 09 January 2020

Claims Discussed: Independent Claims 1,11 and 17.

Prior Art Discussed: Lord US 2015/0157055.
Newton US 2013/0284194.

Amendment proposed: The attached proposed amendments together with the interview Agenda.

Issues Discussed:

Proposed Amendments:
Discussed the differences between the the claimed invention and the prior arts of records. Examiner indicated that the drawing needed to be updated to clearly show the claimed structure in the light of the amendment. Examiner also presented a new art (Newton US 2013/0284194) teaches the cartomizer receiving segment defining a chamber having an insertion end and suggest further amendments may be needed to over come the new presented art. Examiner indicated further search and consideration is needed upon filing of the amendment.

Attachment(s): Agenda, Proposed Amendments,

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	/JOSEPH S DEL SOLE/ Supervisory Patent Examiner, Art Unit 1743

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

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

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

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/119,359	Filing Date 08/31/2018	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $460 =	
☐ 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	02/07/2020	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 $100 =	100
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	100

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

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

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Application Number: 16119359 Document Date: 02/07/2020

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Form Revision Date: March 1, 2019

Electronic Acknowledgement Receipt	
EFS ID:	38465532
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Nicholas Paul Mouton
Filer Authorized By:	
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	07-FEB-2020
Filing Date:	31-AUG-2018
Time Stamp:	22:32:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1300
RAM confirmation Number	E202027M33019088
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	CN102727969B.pdf	866803 3bb65aa4b0de587fa64bcfa67fda4fa0fc4ea369	no	13
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Information:					
2	Foreign Reference	CN201104488Y.pdf	883414 0acdee880cfc378b34c72196859bbcce1c7f4063	no	17
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Information:					
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5	Foreign Reference	CN202603608U.pdf	690545 31f5817f4af824596b70e5e9d8d6cd265867d5c7	no	9
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Information:					
6	Foreign Reference	CN202890462U.pdf	896605 8b2d08e3adb7e056cc3624e288608c48114cdfb6	no	12
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14	Foreign Reference	KR20120008751U.pdf	3761553 7968374b83aa01cb1ac96485f57aaa6bea6531b0	no	8
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15	Foreign Reference	KR20120113519A.pdf	7718012 630b84cd2e35b5ba33666ce4f16241749fac730b	no	14
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16	Foreign Reference	KR20130106741A_w_translation.pdf	5934215 c660da745aeb9335d10313ed5c4b2420ad619b79	no	21
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17	Foreign Reference	KR20130107658A.pdf	6143615 291f918c8616dac23dbf06279417a7d98379ed6e	no	12
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18	Foreign Reference	WO2003061716A1.pdf	731192 c3aab5e32c436793065aa56a36da4fc388e98dda	no	17
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23	Non Patent Literature	chinabuye_Innokin_ITaste.pdf	590605 68474188b444c4e0459a5a3444b165eb3454a54f	no	2
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24	Non Patent Literature	Cloud_pen_Vaporizer.pdf	612331 213f7c7c923b92aa00d2edc7ac6b6aacb7df8c91	no	4
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32	Foreign Reference	WO2015165105A1.pdf	492906 d5805bc1b82f3733052aa4bac78a489972d062cf	no	22
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40		55755-402C02US_Response.pdf	178970 558d3741bebaba398643654f08219a497567629f	yes	13

Multipart Description/PDF files in .zip description

Document Description	Start	End
Response After Final Action	1	1
Claims	2	6
Drawings-only black and white line drawings	7	7

	Specification		8		8
	Applicant summary of interview with examiner		9		9
	Applicant Arguments/Remarks Made in an Amendment		10		13
Warnings:					
Information:					
41	Drawings-other than black and white line drawings	55755-402C02US_FIG1.pdf	787191 d872e3f45ce7298dbd226c3ed82de3426a97517b	no	1
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Information:					
42	Request for Continued Examination (RCE)	55755-402C02US_RCE.PDF	804878 e2156770fe8626ea56b8ae7b1968183583fce477	no	3
Warnings:					
Information:					
43	Information Disclosure Statement (IDS) Form (SB08)	55755-402C02US_IDS_SB08.pdf	193181 064e74e8cb5124e23e022ad2b733ae46c9dc08df	no	6
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Information:					
This is not an USPTO supplied IDS fillable form					
44	Transmittal Letter	signed55755-402C02US-IDS_Transmittal_Jan2020.pdf	224724 3e33451c9412adf2fb7cf4a638cf9bbc99762308	no	9
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Information:					
45	Fee Worksheet (SB06)	fee-info.pdf	30082 f8fb10f35b81d481587a09eed423a29776ca435a	no	2
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		Total Files Size (in bytes):	60157180		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

STATEMENT OF SUBSTANCE OF INTERVIEW

Applicant thanks Examiner Ali for the courtesy of the telephonic interview with Applicant's Representative, Fred Hernandez, on January 9, 2020. During the interview, the examiner requested that Figure 1 be updated to identify the insertion end and the base end of the chamber. The examiner also identified US20130284194 (Newton) as relevant art. The examiner and Mr. Hernandez also discussed potential amendments to the claims related to the position of the heating element. The examiner indicated that the claims would likely be allowable if the independent claim are amended to recite the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element.

NJOY Exhibit 1007.310

AMENDMENTS TO THE SPECIFICATION

Please amend paragraph [0032] of the specification as follows. No new matter is added.

[0032] Embodiments of a vaporizer, in accordance with the disclosure, may include a shell having a battery segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end 108A distal from the battery segment and a base end 108B proximate to the battery segment; a cartomizer insertable into the chamber at the insertion end, the cartomizer including: an outer cartomizer shell, a holding structure provided within, and secured to, the outer cartomizer shell, the holding structure including a basin dimensioned to hold a vaporizable substance, a heating element provided within the basin operable to heat the vaporizable substance, cartomizer electrical contacts provided on the exterior of the cartomizer, cartomizer electrical circuitry operable to direct an electronic current between the cartomizer electrical contacts and the heating element, and a mouthpiece fluidly communicable with the basin, the mouthpiece extending from the insertion end 108A of the chamber when the cartomizer is inserted in the chamber, wherein the heating element is activated by the current and is operable to heat the vaporizable substance to a vaporization temperature; a battery housed within the battery segment; battery electrical contacts provided between the base end 108B of the chamber and the battery segment, the battery electrical contacts positioned to contact the cartomizer electrical contacts when the cartomizer is inserted in the chamber; battery electrical circuitry housed within the battery segment and operable to direct an electrical current between the battery, the battery electrical contacts, the cartomizer electrical contacts, the heating element, and the inserted cartomizer.

NJOY Exhibit 1007.311

Fig. 1

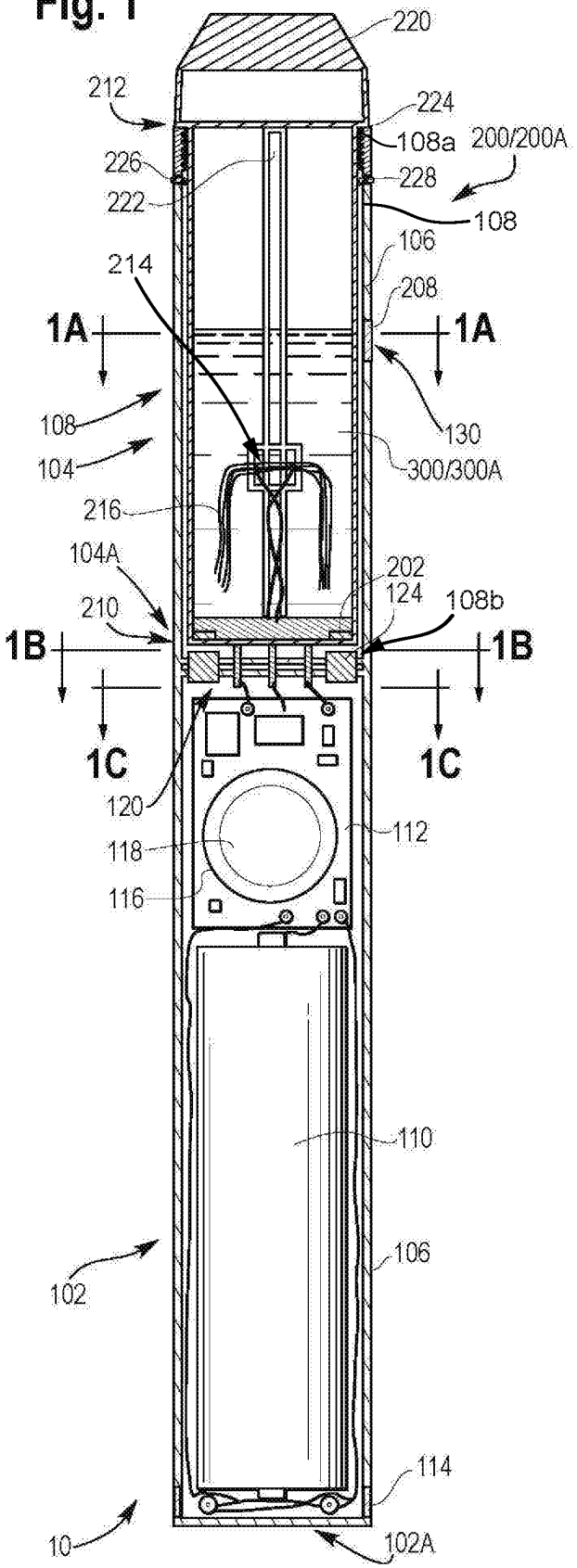


Fig. 1A

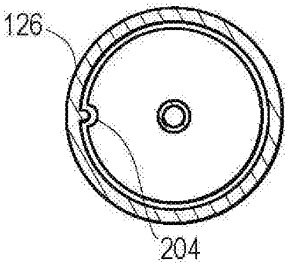


Fig. 1B

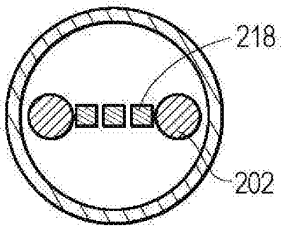
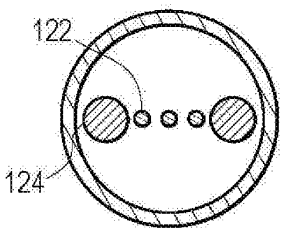


Fig. 1C



AMENDMENTS TO THE DRAWINGS

Applicant submits a Replacement Sheet #1 herewith. Please replace the first drawing sheet with the replacement drawing sheet submitted herewith. This replacement drawing sheet shall supersede and replace all prior versions of the drawing sheet submitted in this application. In the replacement drawing sheet, insertion end 108A, base end 108B, chamber 108, and heating element 214 have each been labeled. No new matter is added.

NJOY Exhibit 1007.313

AMENDMENTS TO THE CLAIMS

Please amend the claims as set forth below. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1. (Currently amended) A vaporizer comprising:

a battery portion comprising a battery housing segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery housing segment and a base end proximate to the battery housing segment, the battery portion further comprising a plurality of charger electrical contacts to provide electrical charge to a battery housed in the battery housing segment, the charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment, wherein an outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid; and

a heating element provided within the ~~basin~~ body in contact with the wicking element and operable to heat the vaporizable fluid, wherein the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element.

2. (Currently amended) The vaporizer of claim 1, wherein the wicking element is ~~and the heating element are~~ disposed within the chamber of the cartomizer receiving segment when the cartomizer is inserted into the chamber.

3. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by friction between the cartomizer and the chamber.

NJOY Exhibit 1007.314

4. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by engagement of snap fit connectors.

5. (Canceled)

6. (Previously Presented) The vaporizer of claim 1, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

7. (Currently amended) The vaporizer of claim [[5]] 1, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

8. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer further comprises a mouthpiece opposite an end of the cartomizer configured for insertion into the chamber.

9. (Currently amended) The vaporizer of claim [[5]] 1, wherein at least a portion of the shell is formed of a translucent material.

10. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer further comprises electrical circuitry connected with the heating element.

11. (Currently amended) A vaporizer comprising:

a battery portion comprising:

a battery housing segment;

a cartomizer receiving segment defining a cartomizer chamber having an insertion end ~~at the second end of the battery portion and~~ distal from the battery housing segment, the cartomizer chamber further having a base end proximate to the battery housing segment, wherein an outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment;

NJOY Exhibit 1007.315

a plurality of charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the cartomizer chamber, the insertion end of the cartomizer chamber being at a second end of the battery portion; and

at least one magnet of the battery portion, the at least one magnet of the battery portion in or proximate to the cartomizer chamber; and

a cartomizer insertable into the cartomizer chamber at the insertion end, the cartomizer comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid;

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable fluid, wherein the entire heating element is disposed between the insertion end of the cartomizer chamber and the base end of the cartomizer chamber when the cartomizer is inserted into the cartomizer chamber such that the outer shell protects the heating element; and

a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

12. (Currently amended) The vaporizer of claim 11, wherein the battery portion further comprises one or more battery electrical contacts in or proximate the cartomizer chamber of the cartomizer receiving segment.

13. (Currently amended) The vaporizer of claim 11, wherein the cartomizer further comprises one or more cartomizer electrical contacts for connecting with one or more battery electrical contacts in or proximate the cartomizer chamber.

14. (Currently amended) The vaporizer of claim 11, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

15. (Canceled)

NJOY Exhibit 1007.316

16. (Currently amended) The vaporizer of claim [[15]] 11, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the cartomizer chamber.

17. (Currently amended) A vaporizer comprising:

a battery portion comprising:

a plurality of charger electrical contacts disposed at a first end of the battery portion;

a battery housing segment for housing a battery between the first end of the battery portion and a second end of the battery portion;

a cartomizer receiving segment defining a chamber having an insertion end at the second end of the battery portion and distal from the battery housing segment, the chamber further having a base end proximate to the battery housing segment, wherein an outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment; and

one or more battery electrical contacts in or proximate the chamber of the cartomizer receiving segment; and

a cartomizer insertable into the insertion end of the chamber, the cartomizer comprising:

a body for holding a vaporizable fluid;

a wicking element provided within the body and at least partially in contact with the vaporizable fluid;

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable fluid, wherein the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element; and

one or more cartomizer electrical contacts for connecting with the one or more battery electrical contacts in or proximate the chamber.

NJOY Exhibit 1007.317

18. (Previously Presented) The vaporizer of claim 17, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

19. (Canceled)

20. (Currently amended) The vaporizer of claim [[19]] 17, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

21. (New) The vaporizer of claim 1, the battery portion further comprising at least one magnet in or proximate to the chamber of the cartomizer receiving segment.

22. (New) The vaporizer of claim 21, the cartomizer further comprising a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

23. (New) The vaporizer of claim 17, the battery portion further comprising at least one magnet in or proximate to the chamber of the cartomizer receiving segment.

24. (New) The vaporizer of claim 23, the cartomizer further comprising a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

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REMARKS

By this Amendment, Claims 1-4, 6-14, 16-18, and 20-24 are pending. Reconsideration of the application is respectfully requested in view of the above amendments and the remarks below.

Drawings

As discussed above, Applicant has amended FIG. 1 to show the location of the insertion end and the base end of the chamber. No new matter is added

Rejection Under 35 U.S.C. §112

Claims 11-16 stand rejected under 35 U.S.C. 112(b), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor regards as the invention. Claims 12-16 stand rejected as being dependent from claim 11 and therefor including all the limitation thereof.

The Examiner asserted that claim 11 is indefinite as it is not clear if the at least one magnet disposed in or proximate to the chamber and the at least one magnet of the battery portion are the same elements or not. Claim 11 is amended to clarify that the magnet is the magnet of the battery portion. Claim 11 is further amended to clarify that the chamber is the "cartomizer chamber."

Applicant respectfully asserts that the rejection is overcome.

Rejections under 35 U.S.C. §103

Claims 1-6, 8 and 10 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Lord (US 2015/0157055 – of record) hereinafter "Lord" in view of Sears (US 2014/0096781 – of record) hereinafter "Sears" and Monsees (US 2013/0042865 – of record) hereinafter "Monsees". Claims 7 and 9 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Lord in view of Sears and Monsees as applied to claim 5 above, and further in view of Cohen (US 2011/0036346 – of record) hereinafter "Cohen".

Applicant respectfully traverses the rejection. As discussed in the interview, Lord, Sears, and Monsees, both alone and in combination, fail to teach or suggest the entire heating element is

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disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element, as recited in independent claim 1.

Accordingly, the rejection of claim 1 should be withdrawn. In view of the features as recited in claim 1, and in view of the additional features as recited in the dependent claims, the dependent claims of claim 1 define patentable subject matter over the applied references for at least the reasons discussed above, and for their respective additional novel features. Thus, Applicant respectfully submits that the dependent claims are allowable.

Claims 11-15 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Lord in view of Sears and Liu (US 2014/0150783 – of record) hereinafter "Liu". Claim 16 stands rejected under 35 U.S.C. §103 as allegedly being unpatentable over Lord in view of Sears and Liu as applied to claim 11 above, and further in view of Cohen.

Applicant respectfully traverses the rejection. As discussed in the interview and discussed above regarding claim 1, Lord, Sears, and Liu, both alone and in combination, fail to teach or suggest the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element, as recited in independent claim 11.

Accordingly, the rejection of claim 11 should be withdrawn. In view of the features as recited in claim 11, and in view of the additional features as recited in the dependent claims, the dependent claims of claim 11 define patentable subject matter over the applied references for at least the reasons discussed above, and for their respective additional novel features. Thus, Applicant respectfully submits that the dependent claims are allowable.

Claims 17-19 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Lord in view of Sears. Claim 20 stands rejected under 35 U.S.C. §103 as allegedly being unpatentable over Lord in view of Sears as applied to claim 17 above, and further in view of Cohen.

Applicant respectfully traverses the rejection. As discussed in the interview and discussed above regarding claims 1 and 11, Lord and Sears, both alone and in combination, fail to teach or suggest the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element, as recited in independent claim 17.

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Accordingly, the rejection of claim 17 should be withdrawn. In view of the features as recited in claim 17, and in view of the additional features as recited in the dependent claims, the dependent claims of claim 17 define patentable subject matter over the applied references for at least the reasons discussed above, and for their respective additional novel features. Thus, Applicant respectfully submits that the dependent claims are allowable.

Regarding Newton (US20130284194), Newton also fails to disclose or suggest the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element, as recited in claims 1, 11, and 17. Newton shows a heater 40 but the entire heater 40 is not disposed between the insertion end of the chamber the elongated portion 10 and the base end of the chamber of the elongated portion 10 of Newton when the atomizer assembly 18 is inserted into the chamber of the elongated portion 10.

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CONCLUSION

On the basis of the foregoing amendments, the pending claims are in condition for allowance. It is believed that all of the pending claims have been addressed in this paper. However, failure to address a specific rejection, issue or comment, does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above are not intended to be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper.

Any claim amendments which are not specifically discussed in the above remarks are not made for patentability purposes, and it is believed that the claims would satisfy the statutory requirements for patentability without the entry of such amendments. Rather, these amendments have only been made to increase claim readability, to improve grammar, and to reduce the time and effort required of those in the art to clearly understand the scope of the claim language.

Payment is submitted herewith for a three-month extension of time. No additional fees are believed to be due. However, the Commissioner is hereby authorized to charge any additional claim fees and any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311. If there are any questions regarding this response, the Examiner is encouraged to contact the undersigned at the telephone number provided below.

Dated: February 7, 2020

Respectfully submitted,

Electronic Signature: /FCH/

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NJOY Exhibit 1007.322

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

Application No.: 16/119,359 | Confirmation No.: 7336

Filed: August 31, 2018 | Art Unit: 1743

For: Vaporizer | Examiner: Ahmed Ali, Mohamed K

RESPONSE TO FINAL OFFICE ACTION

FILED VIA EFS

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

Dear Sir:

In response to the final Office Action dated August 8, 2019 (hereinafter "Office Action"), Applicant respectfully submits the following amendments and remarks for consideration.

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

Amendments to the Drawings begin on page 7 of this paper. A "Replacement Sheet" is submitted herewith.

Amendments to the Specification begin on page 8 of this paper.

A Statement of Substance of Interview begins on page 9 of this paper.

Remarks/Arguments begin on page 10 of this paper.

NJOY Exhibit 1007.323

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	16/119,359
				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	1743
(Use as many sheets as necessary)				Examiner Name	M.K. Ahmed Ali
Sheet	1	of	6	Attorney Docket Number	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US10039321	8/7/2018	Verleur et al.	
		US10058122	8/28/2018	Steingraber et al.	
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				First Named Inventor	Jan Andries Verleur
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				Examiner Name	M.K. Ahmed Ali
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				First Named Inventor	Jan Andries Verleur
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				Examiner Name	M.K. Ahmed Ali
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				Art Unit	1743
(Use as many sheets as necessary)				Examiner Name	M.K. Ahmed Ali
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		WO2016059000	4/21/2016	Fontem Holdings 2 B.v.		
Examiner Signature				Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ** CITE NO.: Those document(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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				Art Unit	1743
				Examiner Name	M.K. Ahmed Ali
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Examiner Signature		Date Considered	

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

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

95458245v.1

Electronic Patent Application Fee Transmittal

Application Number:	16119359
Filing Date:	31-Aug-2018
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Nicholas Paul Mouton
Attorney Docket Number:	55755-402C02US/301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 1ST REQUEST	1801	1	1300	1300
		Total in USD ($)		**1300**

FIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

Application No.: 16/119,359	Confirmation No.: 7336
Filed: August 31, 2018	Art Unit: 1743
For: VAPORIZER	Examiner: AHMED ALI, MOHAMED K

INFORMATION DISCLOSURE STATEMENT (IDS)

FILED VIA EFS

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

Dear Commissioner:

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

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

In accordance with 37 CFR § 1.56(a)(1), Applicant hereby provides the Office with the following chart of references[1] cited in USPTO Office Actions and search reports of a patent office in related applications:

[1] In accordance with M.P.E.P § 609.04(a), analogous US patent application publications are provided in the attached PTO/SB/08 in place of non-US patent application publications, where applicable. Where patent publications and patent application publications for the same application are listed, only patent publications are provided in the PTO/SB/08. Where parent applications and continuation applications thereof are both listed, only patent publications for the parent applications are provided in the PTO/SB/08. Some of the references listed may not be included in the attached PTO/SB/08, as they have already been cited in a prior PTO/SB/08 or PTO-892.

NJOY Exhibit 1007.332

Document Number/Information	Publication Date (MM-DD-YYYY)	Name of Patentee, Applicant, or Author
US20050134215	6/23/2005	Bozzone et al.
US20070283972	12/13/2007	Monsees et al.
US20100194337	8/5/2010	Opolka
US20100207576	8/19/2010	Elizalde
US20100253279	10/7/2010	Matthias
US20110036346	2/17/2011	Cohen et al.
US20110159705	6/30/2011	Schmidt
US20110265806	11/3/2011	Alarcon et al.
US20110303231	12/15/2011	Li et al.
US20120048266	3/1/2012	Alelov
US20120199663	8/9/2012	Qiu
US20120223673	9/6/2012	Chen et al.
US20120255546	10/11/2012	Goetz et al.
US20120318882	12/20/2012	Abehasera
US20130037041	2/14/2013	Worm et al.
US20130042865	2/21/2013	Monsees et al.
US20130104916	5/2/2013	Bellinger et al.
US20130168880	7/4/2013	Duke
US20130192623	8/1/2013	Tucker et al.
US20130213420	8/22/2013	Hon
US20130220315	8/29/2013	Conley et al.
US20130228191	9/5/2013	Newton
US20130284194	10/31/2019	Newton
US20130288081	10/31/2013	Cheng et al.
US20130333711	12/19/2013	Liu
US20140014124	1/16/2014	Glasberg et al.
US20140053856	2/27/2014	Liu
US20140053857	2/27/2014	Liu
US20140096781	4/10/2014	Sears et al.
US20140123989	5/8/2014	Lamothe
US20140150783	6/5/2014	Liu

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US20140150784	6/5/2014	Liu
US20140182610	7/3/2014	Liu
US20140190496	7/10/2014	Wensley et al.
US20140253144	9/11/2014	Novak et al.
US20140261490	9/18/2014	Kane
US20140299137	10/9/2014	Kieckbusch et al.
US20140366898	12/18/2014	Monsees et al.
US20150020831	1/22/2015	Weigensberg et al.
US20150059783	3/5/2015	Liu
US20150090256	4/2/2015	Chung
US20150090278	4/2/2015	Schiff et al.
US20150090281	4/2/2015	Chen
US20150101625	4/16/2015	Newton et al.
US20150118895	4/30/2015	Zheng et al.
US20150128976	5/14/2015	Verleur et al.
US20150157055	6/11/2015	Lord
US20150208728	7/30/2015	Lord
US20150305409	10/29/2015	Verleur et al.
US20160278436	9/29/2016	Verleur et al.
US20160353804	12/8/2016	Lord
US20170197046	7/13/2017	Buchberger
US20180303169	10/25/2018	Sears et al.
US4941236	7/17/1990	Sherman et al.
US5269327	12/14/1993	Counts et al.
US8893726	11/25/2014	Hon
US9498588	11/22/2016	Benassayag et al.
CN100589726	2/17/2010	Cixi E-cig Electronic Technology Co., Ltd.
CN101861691	10/13/2010	Jiangmen City Yilong Industrial Co., Ltd.
CN201408820	2/17/2010	Innokin Technology Co., Ltd.
CN202941411	5/22/2013	Kimree Technology Co., Ltd.
CN203087525	7/31/2013	Ald Group Limited
CN203152489	8/28/2013	Japan Tobacco Inc.
CN203168035	9/4/2013	Philip Morris Products S.a.
CN203182012	9/11/2013	Sjn, Jong Su

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CN204466899	7/15/2015	Cixi E-cig Electronic Technology Co., Ltd.
EP0845220	9/3/2003	Jiangmen City Yilong Industrial Co., Ltd.
EP2113178	11/4/2009	Innokin Technology Co., Ltd.
EP2399636	12/28/2011	Kimree Technology Co., Ltd.
EP2654471	7/16/2014	Ald Group Limited
EP3456214	3/20/2019	Japan Tobacco Inc.
EP3469934	4/17/2019	Philip Morris Products S.a.
KR101011453	1/28/2011	Sjn, Jong Su
WO2013093695	6/27/2013	Sis Resources Ltd.
WO2013098397	7/4/2013	Philip Morris Products S.a.
WO2014008646	1/16/2014	Shenzhen L-rider Technology Co, Ltd.; Eco-cigs, Inc.
WO2014139609	9/18/2014	Philip Morris Products S.a.
WO2015082560	6/11/2015	Philip Morris Products S.a.
Uptoyou Frommeme. "Newest Elips CCV Pure Flat Shaped Rechargeable Double Electronic Cigarettes E-Cigarette Set." YouTube, 11 Sept. 2013, https://www.youtube.com/watch?v=ZkQe9xziu44.		

In accordance with 37 CFR § 1.56(a)(2) and MPEP 2004[2], Applicant hereby provides the Office with the following chart of references which the Applicant believes may also include relevant information over which the pending claims patentably defines.

Document Number/Information	**Publication Date (MM-DD-YYYY)**	**Name of Patentee, Applicant, or Author**
US10039321	8/7/2018	Verleur et al.
US10058122	8/28/2018	Steingraber et al.
US10058124	8/28/2018	Monsees et al.
US10085481	10/2/2018	Verleur et al.
US10111467	10/30/2018	Arnel et al.
US10143233	12/4/2018	Dubief et al.
US10195370	2/5/2019	Chen
US20020043262	4/18/2002	Langford et al.
US20020078951	6/27/2002	Nichols et al.

[2] *See* Note 10: "When in doubt, it is desirable and safest to submit information." *But see also* Note 13: "It is desirable to avoid the submission of long lists of documents if it can be avoided… If a long list is submitted, highlight those documents which have been specifically brought to applicant's attention and/or are known to be of most significance."

US20020088469	7/11/2002	Rennecamp
US20040050382	3/18/2004	Goodchild
US20070074734	4/5/2007	Braunshteyn et al.
US20070229025	10/4/2007	Tsai et al.
US20070277816	12/6/2007	Morrison et al.
US20080029095	2/7/2008	Esser
US20080302374	12/11/2008	Wengert et al.
US20090293892	12/3/2009	Williams et al.
US20090302019	12/10/2009	Selenski et al.
US20110192397	8/11/2011	Saskar et al.
US20110226266	9/22/2011	Tao
US20120018529	1/26/2012	Gammon et al.
US20120325227	12/27/2012	Robinson et al.
US20130014772	1/17/2013	Liu
US20130174842	7/11/2013	Young et al.
US20130182421	7/18/2013	Popper et al.
US20130253433	9/26/2013	Senior et al.
US20130255675	10/3/2013	Liu
US20130323941	12/5/2013	Zeliff et al.
US20140041655	2/13/2014	Barron et al.
US20140158129	6/12/2014	Pratt et al.
US20140174458	6/26/2014	Katz
US20140182612	7/3/2014	Chen
US20140202454	7/24/2014	Buchberger
US20150013695	1/15/2015	Mcneal et al.
US20150027471	1/29/2015	Feldman et al.
US20150059787	3/5/2015	Qiu
US20150091501	4/2/2015	Claudepierre
US20150208730	7/30/2015	Li et al.
US20150216237	8/6/2015	Wensley et al.
US20150217068	8/6/2015	Wakalopulos
US20150223521	8/13/2015	Menting et al.
US20150223523	8/13/2015	Mccullough
US20150257441	9/17/2015	Gerkin
US20150282526	10/8/2015	Wu
US20150289565	10/15/2015	Cadieux et al.
US20150296888	10/22/2015	Liu
US20150333552	11/19/2015	Alarcon
US20150333561	11/19/2015	Alarcon

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US20160007653	1/14/2016	Tu
US20160044962	2/18/2016	Thorens et al.
US20160051716	2/25/2016	Wheelock
US20160120226	5/5/2016	Rado
US20160270446	9/22/2016	Shenkal et al.
US20160302471	10/20/2016	Bowen et al.
US20160302486	10/20/2016	Eroch
US20160345628	12/1/2016	Sabet
US20170013875	1/19/2017	Schennum et al.
US20170013876	1/19/2017	Schennum et al.
US20170071251	3/16/2017	Goch
US20170086501	3/30/2017	Buehler et al.
US20170157341	6/8/2017	Pandya et al.
US20170207499	7/20/2017	Leadley
US20170208865	7/27/2017	Nettenstrom et al.
US20170214261	7/27/2017	Gratton
US20170222468	8/3/2017	Schennum et al.
US20170246405	8/31/2017	Wensley et al.
US3085145	4/9/1963	Wray
US3918451	11/11/1975	Steil
US3934117	1/20/1976	Schladitz
US4171000	10/16/1979	Uhle
US4745705	5/24/1988	Yamamoto et al.
US4771796	9/20/1988	Myer
US4793365	12/27/1988	Sensabaugh et al.
US4811731	3/14/1989	Newell et al.
US4848374	7/18/1989	Chard et al.
US4947874	8/14/1990	Brooks et al.
US4947875	8/14/1990	Brooks et al.
US4972855	11/27/1990	Kuriyama et al.
US4993436	2/19/1991	Bloom
US5042509	8/27/1991	Banerjee et al.
US5117482	5/26/1992	Hauber
US5144962	9/8/1992	Counts et al.
US5261424	11/16/1993	Sprinkel
US5479948	1/2/1996	Counts et al.
US5682050	10/28/1997	Williams
US6090082	7/18/2000	King et al.
US6155268	12/5/2000	Takeuchi

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US6322268	11/27/2001	Kaufmann et al.
US6443146	9/3/2002	Voges
US6516796	2/11/2003	Cox et al.
US6532965	3/18/2003	Abhulimen et al.
US6708846	3/23/2004	Fuchs et al.
US6772756	8/10/2004	Shayan
US7173222	2/6/2007	Cox et al.
US7318435	1/15/2008	Pentafragas
US7726320	6/1/2010	Robinson et al.
US7802569	9/28/2010	Yeates et al.
US7913688	3/29/2011	Cross et al.
US8371310	2/12/2013	Brenneise
US8522776	9/3/2013	Wright et al.
US8869792	10/28/2014	Lee
US8978663	3/17/2015	Newton
US9072321	7/7/2015	Liu
US9345541	5/24/2016	Greeley et al.
US9386805	7/12/2016	Liu
US9420829	8/23/2016	Thorens et al.
US9423152	8/23/2016	Ampolini et al.
US9609893	4/4/2017	Novak et al.
US9629391	4/25/2017	Dube et al.
US9738622	8/22/2017	Dull et al.
US9795168	10/24/2017	Zhu
US9801413	10/31/2017	Zhu
US9814265	11/14/2017	Rinker et al.
US9820508	11/21/2017	Arnel et al.
US9844234	12/19/2017	Thorens et al.
US9861135	1/9/2018	Chen
US9918496	3/20/2018	Kane et al.
US9974743	5/22/2018	Rose et al.
USD590990	4/21/2009	Hon
USD675777	2/5/2013	Wu
USD688415	8/20/2013	Kim
USD750835	3/1/2016	Wei
CN102727969	2/26/2014	Joy (changzhou) Electronic Technology Co., Ltd.
CN201104488	8/27/2008	Shenzhen Kanger Technology Corp.

NJOY Exhibit 1007.338

CN202004499	10/5/2011	Guangzhou U + I Electronic Technology Co., Ltd.
CN202603608	12/19/2012	Shenzhen Kanger Technology Co.,ltd.
CN202890462	4/24/2013	Shenzhen Kanger Technology Co., Ltd.
CN203040683	7/10/2013	Joy (changzhou) Electronic Technology Co., Ltd.
CN203467677	3/12/2014	Joyetech (changzhou) Electronic Technology Co., Ltd.
CN204070533	1/7/2015	Shenzhen First Union Technology Co., Ltd.
CN204120231	1/28/2015	Huang Jinzhen
CN204180941	3/4/2015	Shenzhen Smoore Co., Ltd.
CN204217907	3/25/2015	Huizhou Kimree Technology Co., Ltd.
DE102006004484	8/9/2007	Bluesky Global Ltd., 10587 Berlin, De
DE19619536	10/30/1997	Schuckmann, Alfred Von, 47627 Kevelaer, De
EP2967154	10/17/2018	Rai Strategic Holdings, Inc.
GB2264237	8/25/1993	Robert Edward Newell
GB2266466	11/3/1993	Bespak Plc
KR20120008751	2/1/2012	Lee Young Chan et al.
KR20120113519	10/15/2012	Lee, Yong Yin
KR20130106741	9/30/2013	Lee, Yong Yin
KR20130107658	10/2/2013	Lee, Yong Yin
WO2003061716	7/31/2003	The Dial Corporation
WO2003103387	12/18/2003	S.c. Johnson & Son, Inc.
WO2012059726	5/10/2012	Moving Sun Limited
WO2013068100	5/16/2013	Philip Morris Products S.a.
WO2013089358	6/20/2013	Choi, Sang Jin
WO2015165105	11/5/2015	Kimree Hi-tech Inc.
WO2016023173	2/18/2016	Liu, Shuigen
WO2016026105	2/25/2016	Shenzhen Kanger Technology Co., Ltd
WO2016059000	4/21/2016	Fontem Holdings 2 B.v.
"New Tank E-Cigarette:innokin 510T." From China Manufacturer, Manufactory, Factory and Supplier on ECVV.com, November 15, 2011, www.ecvv.com/product/3118191.html		
chinabuye. "Innokin ITaste VV Tank Starter Kit Electronic Cigarette with Clearomizer." YouTube, YouTube, 23 July 2013, www.youtube.com/watch?v=mz414d8MU20.		
Cloud pen vaporizer unboxing review by vaporizer blog // VaporizerBlog.com, https://www.youtube.com/watch?v=ixHMkXoWKNg		
Glory Vapes. "Glory Vapes TV: Kanger S1 Cubica Series Starter Kit Unboxing." YouTube, YouTube, 8 Aug. 2013, www.youtube.com/watch?v=NQivJ6YhdbA.		

NJOY Exhibit 1007.339

Joye eGo-Tank System XXL 1000mAh Starter Kit, https://www.myvaporstore.com/eGo-Tank-System-XXL-1000mAh-Starter-Kit-p/ego-t-xxlkit.htm
Uptoyou Frometne. "Elips Ego SOLE Electronic Cigarette Kit Patent Elipse Flat Upgrade F6 Section with Atomizer CE4." YouTube, YouTube, 12 Sept. 2013, www.youtube.com/watch?v=cnPcqDzFm0Q.
Vaporizers Reviewed. "AtmosRX Optimus 510 Vaporizer Review." YouTube, YouTube, 10 Oct. 2013, www.youtube.com/watch?v=wsyQncG8FB8.
Vaporizers Reviewed. "MicroG Pen Vaporizer Review." YouTube, YouTube, 6 Nov. 2013, www.youtube.com/watch?v=pLhtL8vosrs

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

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

No additional fees are believed to be due. However, the Commissioner is hereby authorized to charge any additional claim fees and any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 16/119,359. If there are any questions regarding this response, the Examiner is encouraged to contact the undersigned at the telephone number provided below.

Respectfully submitted,

Dated: February 7, 2020

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

NJOY Exhibit 1007.340

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)
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.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	16/119,359	Filing Date	2018-08-31	Docket Number (if applicable)		Art Unit	1743
First Named Inventor	Jan Andries Verleur			Examiner Name	AHMED ALI, MOHAMED K		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the orde in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☐ Other _____

☒ Enclosed

☒ Amendment/Reply

☒ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 500311

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

NJOY Exhibit 1007.341

PTO/SB/30EFS (07-09)
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.

Signature of Registered U.S. Patent Practitioner			
Signature	/mdvl/	Date (YYYY-MM-DD)	2020-02-07
Name	Michael D. Van Loy	Registration Number	52315

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is t 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 estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Tim will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions fo 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.

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

NJOY Exhibit 1007.342

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 informatio 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 ma be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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

NJOY Exhibit 1007.343

United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :60366

Sale Accounting Date:02/10/2020

Sale Item Reference Number	Effective Date
16119359	02/07/2020

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I202020M19194438	1202	CLAIMS IN EXCESS OF 20	$100.00	Deposit Account
I202020M19194438	1253	EXTENSION FOR RESPONSE WITHIN 3RD MONTH	$1,400.00	Deposit Account

FIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

Application No.: 16/119,359 Confirmation No.: 7336

Filed: August 31, 2018 Art Unit: 1743

For: VAPORIZER Examiner: AHMED ALI, MOHAMED K

INFORMATION DISCLOSURE STATEMENT (IDS)

FILED VIA EFS

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

Dear Commissioner:

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

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

In accordance with 37 CFR § 1.56(a)(1), Applicant hereby provides the Office with the following chart of references[1] cited in USPTO Office Actions and search reports of a patent office in related applications:

[1] In accordance with M.P.E.P § 609.04(a), analogous US patent application publications are provided in the attached PTO/SB/08 in place of non-US patent application publications, where applicable. Where patent publications and patent application publications for the same application are listed, only patent publications are provided in the PTO/SB/08. Where parent applications and continuation applications thereof are both listed, only patent publications for the parent applications are provided in the PTO/SB/08. Some of the references listed may not be included in the attached PTO/SB/08, as they have already been cited in a prior PTO/SB/08 or PTO-892.

All References Considered Except Where Lined Through. /M.K.A/

NJOY Exhibit 1007.345

Application No.: 16/119,359

Document Number/Information	Publication Date (MM-DD-YYYY)	Name of Patentee, Applicant, or Author
US20050134215	6/23/2005	Bozzone et al.
US20070283972	12/13/2007	Monsees et al.
US20100194337	8/5/2010	Opolka
US20100207576	8/19/2010	Elizalde
US20100253279	10/7/2010	Matthias
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US20110159705	6/30/2011	Schmidt
US20110265806	11/3/2011	Alarcon et al.
US20110303231	12/15/2011	Li et al.
US20120048266	3/1/2012	Alelov
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In accordance with 37 CFR § 1.56(a)(2) and MPEP 2004[2], Applicant hereby provides the Office with the following chart of references which the Applicant believes may also include relevant information over which the pending claims patentably defines.

Document Number/Information	**Publication Date (MM-DD-YYYY)**	**Name of Patentee, Applicant, or Author**
US10039321	8/7/2018	Verleur et al.
US10058122	8/28/2018	Steingraber et al.
US10058124	8/28/2018	Monsees et al.
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[2] *See* Note 10: "When in doubt, it is desirable and safest to submit information." *But see also* Note 13: "It is desirable to avoid the submission of long lists of documents if it can be avoided… If a long list is submitted, highlight those documents which have been specifically brought to applicant's attention and/or are known to be of most significance."

All References Considered Except Where Lined Through. /M.K.A/

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/MOHAMED K AHMED ALI/ 02/29/2020

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

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

No additional fees are believed to be due. However, the Commissioner is hereby authorized to charge any additional claim fees and any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 16/119,359. If there are any questions regarding this response, the Examiner is encouraged to contact the undersigned at the telephone number provided below.

Respectfully submitted,

Dated: February 7, 2020

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

All References Considered Except Where Lined Through. /M.K.A/

NJOY Exhibit 1007.353

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	Art Unit
	MOHAMED K AHMED ALI	1743

CPC - Searched*		
Symbol	**Date**	**Examiner**
A24F47/008, A24F47/004, A24F47/006, A61M15/06.	01/05/2019	MK
Updated	02/27/2020	MK

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

Search Notes		
Search Notes	**Date**	**Examiner**
Inventor names searched in East	01/05/2019	MK
Assignee name searched in Palm	01/05/2019	MK
See east history search attached	01/05/2019	MK
see updated east history search attached	07/22/2019	MK
see updated east history search attached	02/27/2020	MK

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

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	

NJOY Exhibit 1007.354

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S76	166	(US-10039321-$ | US-10058122-$ | US-10058124-$ | US-10085481-$ | US-10111467-$ | US-10143233-$ | US-10195370-$ | US-20020043262-$ | US-20020078951-$ | US-20020088469-$ | US-20040050382-$ | US-20050134215-$ | US-20070074734-$ | US-20070229025-$ | US-20070277816-$ | US-20070283972-$ | US-20080029095-$ | US-20080302374-$ | US-20090293892-$ | US-20090302019-$ | US-20100194337-$ | US-20100207576-$ | US-20100253279-$ | US-20110036346-$ | US-20110159705-$ | US-20110192397-$ | US-20110226266-$ | US-20110265806-$ | US-20110303231-$ | US-20120018529-$ | US-20120048266-$ | US-20120199663-$ | US-20120223673-$ | US-20120255546-$ | US-20120318882-$ | US-20120325227-$ | US-20130014772-$ | US-20130037041-$ | US-20130042865-$ | US-20130104916-$ | US-20130168880-$ | US-20130174842-$ | US-20130182421-$ | US-20130192623-$ | US-20130213420-$ | US-20130220315-$ | US-20130228191-$ | US-20130253433-$ | US-20130255675-$ | US-20130284194-$ | US-20130288081-$ | US-20130323941-$ | US-20130333711-$ | US-20140014124-$ | US-20140041655-$ | US-20140053856-$ | US-20140053857-$ | US-20140096781-$ | US-20140123989-$ | US-20140150783-$ | US-20140150784-$ | US-20140158129-$ | US-20140174458-$ | US-20140182610-$ | US-20140182612-$ | US-20140190496-$ | US-20140202454-$ | US-20140253144-$ | US-20140261490-$ | US-20140299137-$ | US-20140366898-$ | US-20150013695-$ | US-20150020831-$ | US-20150027471-$ | US-20150059783-$ | US-20150059787-$ | US-20150090256-$ | US-20150090278-$ | US-20150090281-$ | US-20150091501-$ | US-20150101625-$ | US-20150118895-$ | US-20150128976-$ | US-20150157055-$ | US-20150208728-$ | US-20150208730-$ | US-20150216237-$ | US-20150217068-$ | US-20150223521-$ | US-20150223523-$ | US-20150257441-$ | US-20150282526-$ | US-20150289565-$ | US-20150296888-$ | US-20150305409-$ | US-20150333552-$ | US-20150333561-$ | US-20160007653-$ | US-20160044962-$ | US-20160051716-$ | US-20160120226-$ | US-20160270446-$ | US-20160278436-$ | US-20160302471-$ | US-20160302486-$ | US-20160345628-$ |	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/24 15:21

NJOY Exhibit 1007.355

		US-20160353804-$ | US-20170013875-$ | US-20170013876-$ | US-20170071251-$ | US-20170086501-$ | US-20170157341-$ | US-20170197046-$ | US-20170207499-$ | US-20170208865-$ | US-20170214261-$ | US-20170222468-$ | US-20170246405-$ | US-20180303169-$ | US-3085145-$ | US-3918451-$ | US-3934117-$ | US-4171000-$ | US-4745705-$ | US-4771796-$ | US-4793365-$ | US-4811731-$ | US-4848374-$ | US-4941236-$ | US-4947874-$ | US-4947875-$ | US-4972855-$ | US-4993436-$ | US-5042509-$ | US-5117482-$ | US-5144962-$ | US-5261424-$ | US-5269327-$ | US-5479948-$ | US-5682050-$ | US-6090082-$ | US-6155268-$ | US-6322268-$ | US-6443146-$ | US-6516796-$ | US-6532965-$ | US-6708846-$ | US-6772756-$ | US-7173222-$ | US-7318435-$ | US-7726320-$ | US-7802569-$ | US-7913688-$ | US-8371310-$ | US-8522776-$ | US-8869792-$ | US-8893726-$ | US-8978663-$ | US-9072321-$ | US-9345541-$ | US-9386805-$ | US-9420829-$ | US-9423152-$ | US-9498588-$ | US-9609893-$).DID.				
S77	132	S76 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/24 15:58
S78	80	((("VERLEUR") near3 ("Jan")) OR (("RECIO") near3 ("Dan")) OR (("LU") near3 ("Yifeng")) OR (("ZHANG") near3 ("Yinjun")) OR (("FAJARDO") near3 ("Arturo")) OR (("VERLEUR") near3 ("Hans"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/02/27 18:02
S79	42	((("Lu") near3 ("Yifeng"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/27 18:02
S80	19	((("Zhang") near3 ("Yinjun"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/27 18:02
S81	14	(US-9629391-$ | US-9738622-$ | US-9795168-$ | US-9801413-$ | US-9814265-$ | US-9820508-$ | US-9844234-$ | US-9861135-$ | US-9918496-$ | US-9974743-$ | US-D590990-$ | US-D675777-$ | US-D688415-$ | US-D750835-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/27 18:03
S82	166	(US-10039321-$ | US-10058122-$ | US-10058124-$ | US-10085481-$ | US-10111467-$ | US-10143233-$ | US-10195370-$ | US-20020043262-$ | US-20020078951-$ | US-20020088469-$ | US-20040050382-$ | US-20050134215-$ | US-20070074734-$ | US-20070229025-$ | US-20070277816-$ | US-20070283972-$ | US-20080029095-$ | US-20080302374-$ | US-20090293892-$ | US-20090302019-$ | US-20100194337-$ | US-20100207576-$ | US-20100253279-$ | US-20110036346-$ | US-20110159705-$ | US-20110192397-$ |	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/27 18:04

NJOY Exhibit 1007.356

		US-20110226266-$ | US-20110265806-$ | US-20110303231-$ | US-20120018529-$ | US-20120048266-$ | US-20120199663-$ | US-20120223673-$ | US-20120255546-$ | US-20120318882-$ | US-20120325227-$ | US-20130014772-$ | US-20130037041-$ | US-20130042865-$ | US-20130104916-$ | US-20130168880-$ | US-20130174842-$ | US-20130182421-$ | US-20130192623-$ | US-20130213420-$ | US-20130220315-$ | US-20130228191-$ | US-20130253433-$ | US-20130255675-$ | US-20130284194-$ | US-20130288081-$ | US-20130323941-$ | US-20130333711-$ | US-20140014124-$ | US-20140041655-$ | US-20140053856-$ | US-20140053857-$ | US-20140096781-$ | US-20140123989-$ | US-20140150783-$ | US-20140150784-$ | US-20140158129-$ | US-20140174458-$ | US-20140182610-$ | US-20140182612-$ | US-20140190496-$ | US-20140202454-$ | US-20140253144-$ | US-20140261490-$ | US-20140299137-$ | US-20140366898-$ | US-20150013695-$ | US-20150020831-$ | US-20150027471-$ | US-20150059783-$ | US-20150059787-$ | US-20150090256-$ | US-20150090278-$ | US-20150090281-$ | US-20150091501-$ | US-20150101625-$ | US-20150118895-$ | US-20150128976-$ | US-20150157055-$ | US-20150208728-$ | US-20150208730-$ | US-20150216237-$ | US-20150217068-$ | US-20150223521-$ | US-20150223523-$ | US-20150257441-$ | US-20150282526-$ | US-20150289565-$ | US-20150296888-$ | US-20150305409-$ | US-20150333552-$ | US-20150333561-$ | US-20160007653-$ | US-20160044962-$ | US-20160051716-$ | US-20160120226-$ | US-20160270446-$ | US-20160278436-$ | US-20160302471-$ | US-20160302486-$ | US-20160345628-$ | US-20160353804-$ | US-20170013875-$ | US-20170013876-$ | US-20170071251-$ | US-20170086501-$ | US-20170157341-$ | US-20170197046-$ | US-20170207499-$ | US-20170208865-$ | US-20170214261-$ | US-20170222468-$ | US-20170246405-$ | US-20180303169-$ | US-3085145-$ | US-3918451-$ | US-3934117-$ | US-4171000-$ | US-4745705-$ | US-4771796-$ | US-4793365-$ | US-4811731-$ | US-4848374-$ | US-4941236-$ | US-4947874-$ | US-4947875-$ | US-4972855-$ | US-4993436-$ | US-5042509-$ | US-5117482-$ | US-5144962-$ | US-5261424-$ | US-5269327-$ | US-5479948-$ | US-5682050-$ | US-6090082-$ | US-6155268-$ | US-6322268-$ | US-6443146-$ | US-6516796-$ | US-6532965-$ | US-6708846-$ | US-6772756-$ | US-7173222-$ | US-7318435-$ | US-7726320-$ | US-7802569-$ | US-7913688-$ | US-8371310-$ | US-8522776-$ | US-8869792-$ | US-8893726-$ | US-8978663-$ | US-9072321-$ | US-9345541-$ | US-9386805-$ | US-9420829-$ | US-9423152-				

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		$ | US-9498588-$ | US-9609893-$).DID.				
S83	31	"46799664".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2020/02/28 17:58
S84	10	("20150128976" | "20160353804" | "20170197046" | "8893726" | "20160278436" | "9498588" | "20150020831" | "20150305409" | "5269327" | "20130213420").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/28 17:58
S85	632	((("Liu") near3 ("Qiuming"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/28 17:58
S86	632	((("Liu") near3 ("Qiuming"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:05
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S88	5706	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:06
S89	2176	A61M15/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:06
S90	1587	S88 and S89	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:06
S91	168	S90 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:06
S92	32	S91 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:06
S93	21	(US-20160213066-$ or US-20130228191-$ or US-20140150783-$ or US-20140096781-$ or US-20150157055-$ or US-20150313287-$ or US-20150305409-$ or US-20150208728-$ or US-20150201674-$ or US-20150090278-$ or US-20140366898-$ or US-20130284194-$ or US-20130255702-$ or US-20110036346-$ or US-20150083147-$ or US-20130192623-$ or US-20180303169-$ or US-20130288081-$).did. or (US-9364024-$ or US-5957717-$ or US-5269327-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:11
S94	4497	(A24F47/008).cpc. and ((battery (power (source supply)) same (Charg$3 re$2charg$3) near5 (base receptacl)))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:11

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S95	1546	S94 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:11
S96	95	(A24F47/008).cpc. and (battery (power near3 (source supply))) same ((Charg$3 re$2charg$3) near5 (base receptacl))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:13
S97	44	S96 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:13
S98	118	((("LORD") near3 ("Christopher"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/02/29 11:13
S99	95	((("LORD") near3 ("Christopher"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:13
S100	130	((("RAI") near3 ("Strategic") near3 ("Holdings") near3 ("Inc"))).AS,AANM.	USPAT	OR	OFF	2020/02/29 11:15
S101	121	S100 and ((battery (power (source supply)) same ((Charg$3 re$2charg$3) near5 (base receptacl))))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:15
S102	42	S101 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:15
S103	2	"20160143364"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:42
S104	2	"20140000638"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:42
S105	2	"20110036346"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:42
S106	5706	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:43
S107	2176	A61M15/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:43
S108	1587	S106 and S107	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:43
S109	168	S108 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT;	OR	OFF	2020/02/29 11:43

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			USOCR			
S110	32	S109 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:43
S111	1	"20130284194"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 11:43
S112	2	(us adj "20130037041") and (heat$3 same circuit)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 13:33
S113	2	(us adj "20130037041") and (electrical same contact$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2020/02/29 15:05

EAST Search History (Interference)

<This search history is empty>

2/29/2020 6:09:29 PM
C:\Users\mali5\Documents\EAST\Workspaces\16119359.wsp

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/119,359	08/31/2018	Jan Andries Verleur	55755-402C02US/301	7336

148514 7590 03/05/2020

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EXAMINER	
AHMED ALI, MOHAMED K	

ART UNIT	PAPER NUMBER
1743	

NOTIFICATION DATE	DELIVERY MODE
03/05/2020	ELECTRONIC

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

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

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

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com

NJOY Exhibit 1007.361

Office Action Summary	Application No. 16/119,359	Applicant(s) Verleur et al.	
	Examiner MOHAMED K AHMED ALI	Art Unit 1743	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 02/07/2020.

☐ 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) 1-4,6-14,16-18 and 20-24 is/are pending in the application.

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-4,6-14,16-18 and 20-24 is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

NJOY Exhibit 1007.362

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Continued Examination under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/07/2020 has been entered.

Status of the application

This is a non-final rejection in response to the applicant' remarks and amendment filed on 02/07/2020. Claims 1-2,7,9,11-14,16-17 and 20 are currently amended, claims 3-4,6 and 8 are previously presented, claims 5,15 and 19 are cancelled and claims 21-24 are new. Accordingly claims 1-4, 6-14, 16-18 and 20-24 are examined herein.

Note

Examiner wishes to point out to applicant that claim(s) 1-4, 6-14, 16-18 and 20-24 are directed towards an apparatus and as such will be examined under the following conditions. The process/manner of using the apparatus and/or the material worked upon by the apparatus is/are viewed as recitation(s) of intended use and is/are given patentable weight only to the extent that structure is added to the claimed apparatus (See MPEP 2114 11 and 2115 for further details). For apparatuses, the claim limitations will define structural limitations (See MPEP 2114-2115) or functional limitations properly recited (See MPEP 2173.05 (g)).

Claim Rejections - 35 USC § 102

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

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

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

Claim(s) 1-4, 6, 8 10 and 17-18 is/are rejected under 35 U.S.C. 102(a1) as being anticipated by Worm (US 2013/0037041 – of record).

Regarding **claim 1,** Worm teaches a vaporizer (smoking article 10) (see Fig.1) comprising:

a battery portion (200) comprising a battery housing segment (205) and a cartomizer receiving segment (see figs.1-3; [0049] and [0054]), the cartomizer receiving segment defining a chamber (i.e. a receiving chamber 210) having an insertion end distal from the battery housing segment and a base end proximate to the battery housing segment (see annotated Fig.4 below; [0054]), the battery portion further comprising a plurality of charger electrical (217) contacts to provide electrical charge to a battery (275) housed in the battery housing segment (205) (see fig.6; [0113]), the charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment (see annotated fig.4 below and fig.6), wherein an outer shell (212) is commonly shared by the battery housing segment and the cartomizer receiving segment: and a cartomizer (cartridge 300) insertable into the chamber at the insertion end (see figs.7 and 11; [0016], [0029], [0038] and [0044]), the cartomizer comprising: a body (305) for holding a vaporizable fluid (substance medium 350) (see fig.7;[0056]); a wicking element provided within the body and at least partially in contact with the vaporizable fluid(i.e. a substrate element configured for absorbing or adsorbing a liquid comprising the inhalable substance 350) (see [0059]); and

a heating element (405,407) provided within the body in contact with the wicking element and operable to heat the vaporizable fluid, wherein the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell capable to protects the heating element (see figs.4, 7 and 11; [0073], [0087] and [0091]).

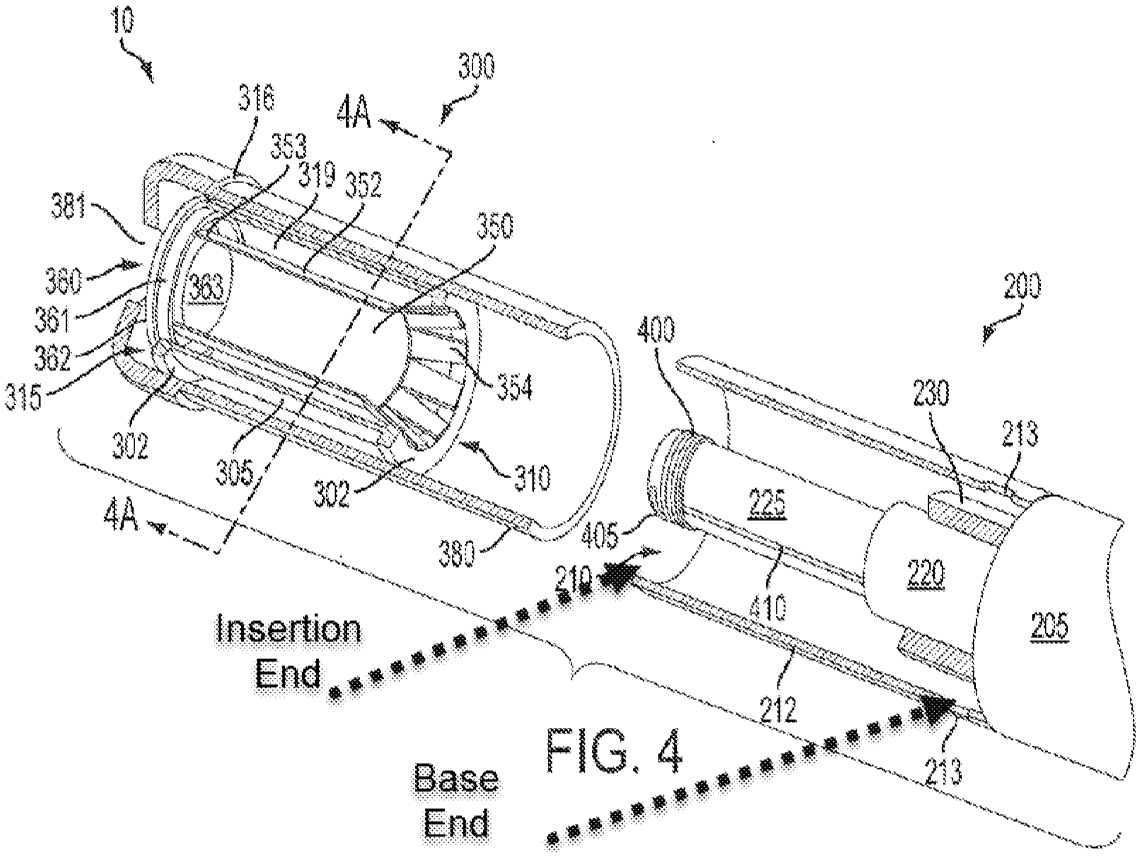


FIG. 4

Regarding **claim 17,** Worm teaches a vaporizer (smoking article 10) (see Fig.1) comprising:

a battery portion (200) comprising:

a plurality of charger electrical contacts (217) disposed at a first end of the battery portion (see Fig.1; [0113]);

a battery housing segment (205) for housing a battery (275) between the first end of the battery portion and a second end of the battery portion (see fig.6; [0054] and [0085]);

a cartomizer receiving segment (i.e. a receiving chamber 210 into which the cartridge 300 is inserted) defining a chamber having an insertion end at the second end of the battery portion and distal from the battery housing segment, the chamber further having a base end proximate to the battery housing segment wherein an outer shell (212) is commonly shared by the battery housing segment and the cartomizer receiving segment (see annotated Fig.4 above and Figs.7and 11; [0054], [0073]); and

one or more battery electrical contacts (410) in or proximate the chamber of the cartomizer receiving segment (210) (see fig.4; [0086]); and

a cartomizer (300) insertable into the insertion end of the chamber (210) (see Figs.7 and 11; [0016], [0029], [0038] and [0044]), the cartomizer comprising:

a body (305) for holding a vaporizable fluid (substance medium 350) (see fig.7; [0056]);

a wicking element provided within the body and at least partially in contact with the vaporizable fluid (i.e. a substrate element configured for absorbing or adsorbing a liquid comprising the inhalable substance 350) (see [0059]);

a heating element (405,407) provided within the body in contact with the wicking element and operable to heat the vaporizable fluid, wherein the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element (see annotated Fig.4, Figs.7 and 11; [0073], [0087] and [0091]) ; and one or more cartomizer electrical contacts for connecting with the one or more battery electrical contacts in or proximate the chamber see fig.12; [0016], [0026],[0045] and [0087]).

Regarding **claim 2,** Worm further teaches the vaporizer, wherein the wicking element is disposed within the chamber (210) of the cartomizer receiving segment when the cartomizer is inserted into the chamber (see fig.7 and 11; [0054], [0059-0060] and [0073]).

Regarding **claim 3,** Worm further teaches the vaporizer, wherein the cartomizer (300) is configured to be retained in the chamber (210) by friction between the cartomizer and the chamber (see [0073]).

Regarding **claim 4,** Worm further teaches the vaporizer, wherein the cartomizer (300) is configured to be retained in the chamber (210) by engagement of snap fit connectors (i.e. cartridge fits snugly into the receiving chamber; see [0073]).

Regarding **claims 6 and 18,** Worm further teaches the vaporizer, wherein the plurality of charger electrical contacts (217) are arranged linearly at the first end of the battery portion (200) (see fig.1; [0113]).

Regarding **claim 8,** Worm further teaches the vaporizer, wherein the cartomizer further comprises a mouthpiece (315) opposite an end of the cartomizer (300) configured for insertion into the chamber (210) (see fig.4; [0055]).

Regarding **claim 10,** Worm further teaches the vaporizer, wherein the cartomizer further comprises electrical circuitry (260) connected with the heating element (see fig.6; [0092-0093]).

Claim Rejections - 35 USC § 103

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

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

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 7, 9 and 20 is/are rejected under 35 U.S.C. 103 as being patentable over Worm (US 2013/0037041 – of record) as applied to claims 1 and 17 above, and further in view of Cohen (US 2011/0036346- of record).

Regarding **claims 7, 9 and 20,**

Worm teaches the vaporizer as discussed in claims 1 and 17 above.

Worm does not teach the vaporizer further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber and at least a portion of the shell is formed of a translucent material.

In the same filed of endeavor, vaporizers, Cohen teaches an inhalation device (10) comprises a chamber (electronics section 12) having a battery (42), a cylindrical housing (24); cartomizer (an atomizing unit 14), and a window (a display 22) formed in an outer shell, wherein at least a portion of the shell is formed of a translucent material, and the window provided on or proximate to the chamber to permit viewing of the cartomizer (14) when the cartomizer is inserted in the chamber (see figs.1 -3; [0017-0018] and [0023). **Therefore,** it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by Worm with a window formed in the outer shell and at least a portion of the shell is formed of a translucent material as taught by Cohen for the purpose of enable the user to see the cartomizer components, liquid level, and improve the user's experience.

Claims 11-14 is/are rejected under 35 U.S.C. 103 as being unpatentable over Worm (US 2013/0037041 – of record) in view of Li (US 2014/0150783 - of record).

Regarding **claim 11,** Worm teaches a vaporizer (smoking article 10) (see Fig.1) comprising: a battery portion (200) comprising:

a battery housing segment (205);

a cartomizer receiving segment (a receiving chamber 210) defining a cartomizer chamber (i.e. a receiving chamber 210 into which the cartridge 300 is inserted) having an insertion end distal from the battery housing segment (see Figs.1-3 and annotated Fig.4 above [0049] and [0054]), the cartomizer chamber further having a base end proximate to the battery housing segment wherein an outer shell (212) is commonly shared by the battery housing segment and the cartomizer receiving segment (see annotated fig.4 above and fig.6; [0073]);

a plurality of charger electrical contacts (217) disposed at a first end of the battery (200) portion opposite the insertion end of the cartomizer chamber, the insertion end of the cartomizer chamber being at a second end of the battery portion (see Fig.1 and annotated Fig.4 above; [0113]); and

a cartomizer (cartridge 300) insertable into the cartomizer chamber (210) at the insertion end (see Figs.7 and 11; [0016], [0029], [0038] and [0044]), the cartomizer comprising:

a body (305) for holding a vaporizable fluid (substance medium 350) (see fig.7; [0056]);

a wicking element (i.e. a substrate element configured for absorbing or adsorbing a liquid comprising the inhalable substance 350) provided within the body and at least partially in contact with the vaporizable fluid see [0059]);

a heating element (405,407) provided within the body in contact with the wicking element and operable to heat the vaporizable fluid, wherein the entire heating element is disposed between the insertion end of the cartomizer chamber and the base end of the cartomizer chamber when the cartomizer is inserted into the cartomizer chamber such that the outer shell protects the heating element (see annotated Fig.4 above and Figs.7, 9-11; [0073], [0087] and [0091]).

Worm does not teach at least one magnet of the battery portion, the at least one magnet of the battery portion in or proximate to the cartomizer chamber; and a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion

In the same field of endeavor, vaporizers devices, Liu teaches a vaporizer (an electronic cigarette) (Abstract) comprising a shell having a battery segment (power rod 95) and a cartomizer chamber (91) at least one magnet in or proximate to the chamber (i.e. the magnetic portion of the connector 92); and a metal element (threaded portion of 95) disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion (see figs.1-2; [0030] , [0032] and [0036-0038]). Since Worm teaches the control housing (200) may include an engaging member that removably attaches to the cartridge (see [0107]), it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by the Worm with at least one magnet in or proximate to the chamber; and a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion as taught by Li in order to provide secured magnetic coupling between the battery portion and the cartomizer segment.

Regarding **claim 12,** Worm further teaches the vaporizer, wherein the battery portion (200) further comprises one or more battery electrical contacts (410) in or proximate the cartomizer chamber of the cartomizer receiving segment (see fig.4; [0086]).

Regarding **claim 13,** Worm further teaches the vaporizer, wherein the cartomizer further comprises one or more cartomizer electrical contacts for connecting with one or more battery electrical contacts in or proximate the cartomizer chamber (see fig.12; [0016], [0026], [0045] and [0087]).

Regarding **claim 14,** Worm further teaches the vaporizer, wherein the plurality of charger electrical contacts (217) are arranged linearly at the first end of the battery portion (2000(see fig.1; [0113]).

Claim 16 is/are rejected under 35 U.S.C. 103 as being unpatentable over Worm (US 2013/0037041 – of record) in view of Li (US 2014/0150783 - of record) as applied to claim 11 above, and further in view of Cohen (US 2011/0036346- of record).

Regarding **claim 16,**

The combination teaches the vaporizer as discussed in claim 11 above.

The combination does not teach the vaporizer further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

In the same filed of endeavor, vaporizers, Cohen teaches an inhalation device (10) comprises a chamber (electronics section 12) having a battery (42), a cylindrical housing (24); cartomizer (an atomizing unit 14), and a window (a display 22) formed in an outer shell, wherein at least a portion of the shell is formed of a translucent material, and the window provided on or proximate to the chamber to permit viewing of the cartomizer (14) when the cartomizer is inserted in the chamber (see figs.1 -3; [0017-0018] and [0023). **Therefore,** it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by the combination with a window formed in the outer shell as taught by Cohen for the purpose of enable the user to see the cartomizer components, liquid level, and improve the user's experience.

Claims 21-24 is/are rejected under 35 U.S.C. 103 as being unpatentable over Worm (US 2013/0037041 – of record) in view of Li (US 2014/0150783 - of record).

Regarding **claims 21-24,**

Worm teaches the vaporizer as discussed in claims 1 and 17 above.

Worm does not teach the vaporizer further comprising at least one magnet in or proximate to the chamber of the cartomizer receiving segment; and a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

In the same field of endeavor, vaporizers devices, Liu teaches a vaporizer (an electronic cigarette) (Abstract) comprising a shell having a battery segment (power rod 95) and a cartomizer chamber (91) at least one magnet in or proximate to the chamber (i.e. the magnetic portion of the connector 92); and a metal element (threaded portion of 95) disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion (see figs.1-2; [0030] , [0032] and [0036-0038]). Since Worm teaches the control housing (200) may include an engaging member that removably attaches to the cartridge (see [0107]), it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the vaporizer as taught by the Worm with at least one magnet in or proximate to the chamber; and a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion as taught by Li in order to provide secured magnetic coupling between the battery portion and the cartomizer segment.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l) (1) - 706.02(l) (3) for

applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

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

Claim 1-4, 6-14, 16-18 and 20-24 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claim 3-8,10-26, 28-34 of Copending Application No. 16/181,316.

Although the claims at issue are not identical, they are not patentably distinct from each other because claims 1-4,6-14,16-18 and 20-24 of the instant application recite various features which reads on or obvious over claim 3-8,10-26, 28-34 of copending application.

.This is a provisional nonstatutory double patenting rejection because the patentably indistinct claims have not in fact been patented.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMED K AHMED ALI whose telephone number is (571)272-0347. The examiner can normally be reached on 10:00 AM-7:30 PM.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Del Sole can be reached on 571-272-1130. 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 https://ppair-my.uspto.gov/pair/PrivatePair. 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.

/MOHAMED K AHMED ALI/
Examiner, Art Unit 1743

/JOSEPH S DEL SOLE/
Supervisory Patent Examiner, Art Unit 1743

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	16/119,359
				Filing Date	August 31, 2018
				First Named Inventor	Jan Andries Verleur
				Art Unit	1743
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Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Signature				Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ** CITE NO.: Those document(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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		Vaporizers Reviewed. "AtmosRX Optimus 510 Vaporizer Review." YouTube, YouTube, 10 Oct. 2013, www.youtube.com/watch?v=wsvQncG8FB8.	
		Vaporizers Reviewed. "MicroG Pen Vaporizer Review." YouTube, YouTube, 6 Nov. 2013, www.youtube.com/watch?v=pLhtL8vosrs	

Examiner Signature	/MOHAMED K AHMED ALI/	Date Considered	02/29/2020

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

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

95458245v.1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.K.A/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

Application No.: 16/119,359	Confirmation No.: 7336
Filed: August 31, 2018	Art Unit: 1743
For: Vaporizer	Examiner: Ahmed Ali, Mohamed K

RESPONSE TO NON-FINAL OFFICE ACTION

FILED VIA EFS

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

Dear Sir:

In response to the Non-Final Office Action dated March 5, 2020 (hereinafter "Office Action"), Applicant respectfully submits the following amendments and remarks for consideration.

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

Remarks/Arguments begin on page 7 of this paper.

NJOY Exhibit 1007.380

REMARKS

By this Amendment, Claims 1-4, 6-14, 16-18, and 20-24 are pending. Claims 1, 2, 7, 9, 11, 12, 13, 16, 17, and 20 are amended. Reconsideration of the application is respectfully requested in view of the above amendments and the remarks below.

Rejection under 35 U.S.C. 102

Claims 1-4, 6, 8, 10, and 17-18 stand rejected under 35 U.S.C. 102(a1) as allegedly being anticipated by Worm (US Paragraph 2013/0037041 – of record) hereinafter "Worm".

Applicant respectfully traverses the rejection as Worm fails to disclose or suggest all of the elements of the claims. For example, claim 1 recites that the cartomizer comprises:

> a body including a structure configured to hold a vaporizable liquid;
>
> a wicking element provided within the body and at least partially in contact with the vaporizable liquid; and
>
> a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid, wherein the wicking element is configured to deliver the vaporizable liquid to the heating element

Worm fails to disclose or suggest a body including a structure configured to hold a vaporizable liquid, a wicking element provided within the body and at least partially in contact with the vaporizable liquid, and a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid, wherein the wicking element is configured to deliver the vaporizable liquid to the heating element. Applicant respectfully notes that similar limitations in the claims of the instant application's sister case (16/181,316) resulted in allowance of the claims in the sister case.

Applicant respectfully asserts that the rejection of claim 1 should be withdrawn. Independent claims 11 and 17 includes similar limitations and are allowable at least for the reasons recited above with respect to claim 1. The dependent claims are patentable on their own merit as well as based on their dependency on claims 1, 11, or 17.

NJOY Exhibit 1007.381

Rejections under 35 U.S.C. §103

Claims 7, 9 and 20 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Worm as applied to claims 1 and 17 above, and further in view of Cohen (US 2011/0036346 – of record) hereinafter "Cohen". Claims 11-14 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Worm in view of Li (US 2014/0150783 – of record) hereinafter "Li". Claim 16 stands rejected under 35 U.S.C. §103 as allegedly being unpatentable over Worm in view of Li as applied to claim 11 above, and further in view of Cohen. Claims 21-24 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Worm in view of Li.

As discussed above, independent Claims 1, 11, and 17 recite features that are not disclosed or suggested by Worm. The additional references fail to provide the missing teaching. Claims 7, 9, 11-14, 16, and 20-24 are patentable on their own merit as well as based on their dependency on claims 1, 11, or 17.

Double Patenting Rejection

Claims 1-4, 6-14, 16-18 and 20-24 stand provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 3-8, 10-26, 28-34 of Copending Application No. 16/181,316. A Terminal Disclaimer may be submitted upon finalization of the nonstatutory double patenting rejection.

NJOY Exhibit 1007.382

CONCLUSION

On the basis of the foregoing amendments, the pending claims are in condition for allowance. It is believed that all of the pending claims have been addressed in this paper. However, failure to address a specific rejection, issue or comment, does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above are not intended to be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper.

Any claim amendments which are not specifically discussed in the above remarks are not made for patentability purposes, and it is believed that the claims would satisfy the statutory requirements for patentability without the entry of such amendments. Rather, these amendments have only been made to increase claim readability, to improve grammar, and to reduce the time and effort required of those in the art to clearly understand the scope of the claim language.

No additional fees are believed to be due. However, the Commissioner is hereby authorized to charge any additional claim fees and any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311. If there are any questions regarding this response, the Examiner is encouraged to contact the undersigned at the telephone number provided below.

Dated: June 4, 2020

Respectfully submitted,

Electronic Signature: /FCH/

Fred C. Hernandez
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NJOY Exhibit 1007.383

Electronic Acknowledgement Receipt	
EFS ID:	39631348
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Fred C. Hernandez/Teri Barnett
Filer Authorized By:	Fred C. Hernandez
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	04-JUN-2020
Filing Date:	31-AUG-2018
Time Stamp:	17:30:08
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		16119359_Response.pdf	135718 c8dd5c610c9d68ce480d515623e934ac2efe42be	yes	9

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	6
	Abstract	7	9
Warnings:			
Information:			
	Total Files Size (in bytes):	135718	

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.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

AMENDMENTS TO THE CLAIMS

Please amend the claims as set forth below. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1. (Currently amended) A vaporizer comprising:

a battery portion comprising a battery housing segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery housing segment and a base end proximate to the battery housing segment, the battery portion further comprising a plurality of charger electrical contacts to provide electrical charge to a battery housed in the battery housing segment, the charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment, wherein an outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising:

a body including a structure configured to hold [[for holding]] a vaporizable liquid [[fluid]];

a wicking element provided within the body and at least partially in contact with the vaporizable liquid [[fluid]]; and

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid [[fluid]], wherein the wicking element is configured to deliver the vaporizable liquid to the heating element, and wherein the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element.

2. (Currently amended) The vaporizer of claim 1, wherein the wicking element is ~~and the heating element are~~ disposed within the chamber of the cartomizer receiving segment when the cartomizer is inserted into the chamber.

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3. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by friction between the cartomizer and the chamber.

4. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by engagement of snap fit connectors.

5. (Canceled)

6. (Previously Presented) The vaporizer of claim 1, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

7. (Currently amended) The vaporizer of claim [[5]] 1, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

8. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer further comprises a mouthpiece opposite an end of the cartomizer configured for insertion into the chamber.

9. (Currently amended) The vaporizer of claim [[5]] 1, wherein at least a portion of the shell is formed of a translucent material.

10. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer further comprises electrical circuitry connected with the heating element.

11. (Currently amended) A vaporizer comprising:

a battery portion comprising:

a battery housing segment;

a cartomizer receiving segment defining a cartomizer chamber having an insertion end distal from the battery housing segment, the cartomizer chamber further having a base end proximate to the battery housing segment, wherein an

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outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment;

a plurality of charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the cartomizer chamber, the insertion end of the cartomizer chamber being at a second end of the battery portion; and

at least one magnet of the battery portion, the at least one magnet of the battery portion in or proximate to the cartomizer chamber; and

a cartomizer insertable into the cartomizer chamber at the insertion end, the cartomizer comprising:

a body including a structure configured to hold [[for holding]] a vaporizable liquid [[fluid]];

a wicking element provided within the body and at least partially in contact with the vaporizable liquid [[fluid]];

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid [[fluid]], wherein the wicking element is configured to deliver the vaporizable liquid to the heating element, and wherein the entire heating element is disposed between the insertion end of the cartomizer chamber and the base end of the cartomizer chamber when the cartomizer is inserted into the cartomizer chamber such that the outer shell protects the heating element; and

a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

12. (Currently amended) The vaporizer of claim 11, wherein the battery portion further comprises one or more battery electrical contacts in or proximate the cartomizer chamber of the cartomizer receiving segment.

13. (Currently amended) The vaporizer of claim 11, wherein the cartomizer further comprises one or more cartomizer electrical contacts for connecting with one or more battery electrical contacts in or proximate the cartomizer chamber.

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14. (Previously Presented) The vaporizer of claim 11, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

15. (Canceled)

16. (Currently amended) The vaporizer of claim [[15]] 11, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the cartomizer chamber.

17. (Currently amended) A vaporizer comprising:

a battery portion comprising:

a plurality of charger electrical contacts disposed at a first end of the battery portion;

a battery housing segment for housing a battery between the first end of the battery portion and a second end of the battery portion;

a cartomizer receiving segment defining a chamber having an insertion end at the second end of the battery portion and distal from the battery housing segment, the chamber further having a base end proximate to the battery housing segment, wherein an outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment; and

one or more battery electrical contacts in or proximate the chamber of the cartomizer receiving segment; and

a cartomizer insertable into the insertion end of the chamber, the cartomizer comprising:

a body including a structure configured to hold [[for holding]] a vaporizable liquid [[fluid]];

a wicking element provided within the body and at least partially in contact with the vaporizable liquid [[fluid]];

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid [[fluid]], wherein the wicking

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element is configured to deliver the vaporizable liquid to the heating element, and wherein the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element; and

one or more cartomizer electrical contacts for connecting with the one or more battery electrical contacts in or proximate the chamber.

18. (Previously Presented) The vaporizer of claim 17, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

19. (Canceled)

20. (Currently amended) The vaporizer of claim [[19]] 17, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

21. (Previously Presented) The vaporizer of claim 1, the battery portion further comprising at least one magnet in or proximate to the chamber of the cartomizer receiving segment.

22. (Previously Presented) The vaporizer of claim 21, the cartomizer further comprising a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

23. (Previously Presented) The vaporizer of claim 17, the battery portion further comprising at least one magnet in or proximate to the chamber of the cartomizer receiving segment.

24. (Previously Presented) The vaporizer of claim 23, the cartomizer further comprising a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/119,359	Filing Date 08/31/2018	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $460 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	06/04/2020	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 $100 =	100
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	100

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

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

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/119,359	08/31/2018	Jan Andries Verleur	55755-402C02US/301	7336

148514 7590 09/11/2020

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER
AHMED ALI, MOHAMED K

ART UNIT	PAPER NUMBER
1743	

NOTIFICATION DATE	DELIVERY MODE
09/11/2020	ELECTRONIC

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

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

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

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

NJOY Exhibit 1007.392

Office Action Summary	Application No. 16/119,359	Applicant(s) Verleur et al.	
	Examiner MOHAMED K AHMED ALI	Art Unit 1743	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 06/04/2020.

☐ 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) 1-4,6-14,16-18 and 20-24 is/are pending in the application.

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-4,6-14,16-18 and 20-24 is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

NJOY Exhibit 1007.393

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Status of the application

This is a final rejection in response to the Applicant's remarks and amendment filed on 06/04/2020. Claims 1-2,7,9,11-13,16-17 and 20 are currently amended, claims 3-4,6,8,10,14,18 and 21-24 are previously presented, claims 5,15 and 19 are cancelled. Accordingly claims 1-4, 6-14, 16-18 and 20-24 are examined herein.

Note

Examiner wishes to point out to applicant that claim(s) 1-4, 6-14, 16-18 and 20-24 are directed towards an apparatus and as such will be examined under the following conditions. The process/manner of using the apparatus and/or the material worked upon by the apparatus is/are viewed as recitation(s) of intended use and is/are given patentable weight only to the extent that structure is added to the claimed apparatus (See MPEP 2114 11 and 2115 for further details). For apparatuses, the claim limitations will define structural limitations (See MPEP 2114-2115) or functional limitations properly recited (See MPEP 2173.05 (g)).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l) (1) - 706.02(l) (3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

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

Claims 1-4, 6-14, 16-18 and 20-24 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-30 of U.S. Patent No. 10,667,567.

Although the claims at issue are not identical, they are not patentably distinct from each other because claims 1-4,6-14,16-18 and 20-24 of the instant application recite various features which reads on or obvious over claim 1-30 of U.S. Patent No. 10,667,567.

Response to Arguments

Applicant's arguments, see remarks, pages 7-8, filed 06/04/2020, with respect to claims 1, 11 and 17 have been fully considered and are persuasive. The rejections of claims 1-4, 6-14, 16-18 and 20-24 under 35 U.S.C. 102 and 103 have been withdrawn.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMED K AHMED ALI whose telephone number is (571)272-0347. The examiner can normally be reached on 10:00 AM-7:30 PM.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Del Sole can be reached on 571-272-1130. 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 https://ppair-my.uspto.gov/pair/PrivatePair. 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.

/MOHAMED K AHMED ALI/
Examiner, Art Unit 1743

/JOSEPH S DEL SOLE/
Supervisory Patent Examiner, Art Unit 1743

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S114	6,220	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 14:02
S115	2,408	A61M15/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 14:02
S116	1,769	S114 and S115	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 14:02
S117	184	S116 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 14:02
S118	33	S117 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 14:02
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S134	33	S133 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 14:04

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S144	6,220	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 14:06
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S147	184	S146 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 14:06
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S156	6	"49042112".FMID.	US-PGPUB; USPAT; FPRS; JPO	OR	ON	2020/07/23 14:35
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S160	260	("20050016550" | "20060196518" | "20070267031" | "20090095311" | "20100031967" | "5060671" | "7726320").PN. OR ("8499766").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2020/07/23 14:52
S161	105	S160 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 14:52
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S163	1	"20140299137"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/23 22:15
S164	1,325	(A24F47/008).cpc. and ((Battery control$3 power) same (chamber hous$3 receptacle) same (receiv$3 insert$3) with (cartomiz$3 vaporiz$3 atomizer heat$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/08/31 20:49
S165	352	S164 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/08/31 20:51
S167	2	"16181316"	US-PGPUB; USPAT; USOCR	OR	ON	2020/09/01 11:33

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S169	2,440	A61M15/06.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/01 12:10
S170	1,795	S168 and S169	US-PGPUB; USPAT	OR	OFF	2020/09/01 12:10
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S172	105	S171 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT	OR	OFF	2020/09/01 12:11

9/1/2020 12:14:04 PM
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	Art Unit
	MOHAMED K AHMED ALI	1743

CPC - Searched*		
Symbol	**Date**	**Examiner**
A24F47/008, A24F47/004, A24F47/006, A61M15/06.	01/05/2019	MK
Updated	02/27/2020	MK
Updated	07/23/2020	MK

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

Search Notes		
Search Notes	**Date**	**Examiner**
Inventor names searched in East	01/05/2019	MK
Assignee name searched in Palm	01/05/2019	MK
See east history search attached	01/05/2019	MK
see updated east history search attached	07/22/2019	MK
see updated east history search attached	02/27/2020	MK
see updated east history search attached	07/23/2020	MK

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	

NJOY Exhibit 1007.406

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	Art Unit
	MOHAMED K AHMED ALI	1743

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	see updated east history search attached	09/01/2020	MK

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	

NJOY Exhibit 1007.407

Electronic Patent Application Fee Transmittal

Application Number:	16119359
Filing Date:	31-Aug-2018
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Fred C. Hernandez/Teri Barnett
Attorney Docket Number:	55755-402C02US/301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	170	170
		Total in USD ($)		**170**

Electronic Acknowledgement Receipt	
EFS ID:	41315708
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Fred C. Hernandez/Teri Barnett
Filer Authorized By:	Fred C. Hernandez
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	07-DEC-2020
Filing Date:	31-AUG-2018
Time Stamp:	17:46:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$170
RAM confirmation Number	E2020B7H46560574
Deposit Account	500311
Authorized User	Teri Barnett
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.21 (Miscellaneous fees and charges)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		55755_402C02US_Response.pdf	129256 24e3f1136655ba16864ff244011996fbc1704b35	yes	8
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Response After Final Action		1	1	
	Claims		2	6	
	Applicant Arguments/Remarks Made in an Amendment		7	8	
Warnings:					
Information:					
2	Terminal Disclaimer Filed	55755_402C02US_Terminal_Disclaimer.pdf	101666 bd690f6a96521ccd3cad4c528901bdc30e20c7c8	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30266 44e8b99b896330c22baaf8be398aecfbfde39dfc	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	261188		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/AIA/26 (04-14)
Approved for use through 11/30/2020. 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 displays a valid OMB control number.

TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 055755-402C02US

In re Application of: Jan Andries Verleur et al.

Application No.: 16/119,359

Filed: August 31, 2018

For: VAPORIZER

The applicant, VMR Products, LLC, owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 10,667,567 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

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

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 41,832

/FCH/ — Signature
December 7, 2020 — Date

Fred C. Hernandez — Typed or printed name

Attorney for Applicant(s) — Title
(858) 314-1518 — Telephone Number

☒ Terminal disclaimer fee under 37 CFR 1.20(d) included.

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AMENDMENTS TO THE CLAIMS

Please amend the claims as set forth below. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1. (Previously Presented) A vaporizer comprising:

a battery portion comprising a battery housing segment and a cartomizer receiving segment, the cartomizer receiving segment defining a chamber having an insertion end distal from the battery housing segment and a base end proximate to the battery housing segment, the battery portion further comprising a plurality of charger electrical contacts to provide electrical charge to a battery housed in the battery housing segment, the charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the chamber of the cartomizer receiving segment, wherein an outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment; and

a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising:

a body including a structure configured to hold a vaporizable liquid;

a wicking element provided within the body and at least partially in contact with the vaporizable liquid; and

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid, wherein the wicking element is configured to deliver the vaporizable liquid to the heating element, and wherein the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element.

2. (Previously Presented) The vaporizer of claim 1, wherein the wicking element is disposed within the chamber of the cartomizer receiving segment when the cartomizer is inserted into the chamber.

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3. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by friction between the cartomizer and the chamber.

4. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer is configured to be retained in the chamber by engagement of snap fit connectors.

5. (Canceled)

6. (Previously Presented) The vaporizer of claim 1, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

7. (Previously Presented) The vaporizer of claim 1, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

8. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer further comprises a mouthpiece opposite an end of the cartomizer configured for insertion into the chamber.

9. (Previosuly Presented) The vaporizer of claim 1, wherein at least a portion of the shell is formed of a translucent material.

10. (Previously Presented) The vaporizer of claim 1, wherein the cartomizer further comprises electrical circuitry connected with the heating element.

11. (Previously Presented) A vaporizer comprising:

a battery portion comprising:

a battery housing segment;

a cartomizer receiving segment defining a cartomizer chamber having an insertion end distal from the battery housing segment, the cartomizer chamber further having a base end proximate to the battery housing segment, wherein an

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outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment;

a plurality of charger electrical contacts disposed at a first end of the battery portion opposite the insertion end of the cartomizer chamber, the insertion end of the cartomizer chamber being at a second end of the battery portion; and

at least one magnet of the battery portion, the at least one magnet of the battery portion in or proximate to the cartomizer chamber; and

a cartomizer insertable into the cartomizer chamber at the insertion end, the cartomizer comprising:

a body including a structure configured to hold a vaporizable liquid;

a wicking element provided within the body and at least partially in contact with the vaporizable liquid;

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid, wherein the wicking element is configured to deliver the vaporizable liquid to the heating element, and wherein the entire heating element is disposed between the insertion end of the cartomizer chamber and the base end of the cartomizer chamber when the cartomizer is inserted into the cartomizer chamber such that the outer shell protects the heating element; and

a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

12. (Previously Presented) The vaporizer of claim 11, wherein the battery portion further comprises one or more battery electrical contacts in or proximate the cartomizer chamber of the cartomizer receiving segment.

13. (Previously Presented) The vaporizer of claim 11, wherein the cartomizer further comprises one or more cartomizer electrical contacts for connecting with one or more battery electrical contacts in or proximate the cartomizer chamber.

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14. (Previously Presented) The vaporizer of claim 11, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

15. (Canceled)

16. (Previously Presented) The vaporizer of claim 11, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the cartomizer chamber.

17. (Previously Presented) A vaporizer comprising:

a battery portion comprising:

a plurality of charger electrical contacts disposed at a first end of the battery portion;

a battery housing segment for housing a battery between the first end of the battery portion and a second end of the battery portion;

a cartomizer receiving segment defining a chamber having an insertion end at the second end of the battery portion and distal from the battery housing segment, the chamber further having a base end proximate to the battery housing segment, wherein an outer shell is commonly shared by the battery housing segment and the cartomizer receiving segment; and

one or more battery electrical contacts in or proximate the chamber of the cartomizer receiving segment; and

a cartomizer insertable into the insertion end of the chamber, the cartomizer comprising:

a body including a structure configured to hold a vaporizable liquid;

a wicking element provided within the body and at least partially in contact with the vaporizable liquid;

a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid, wherein the wicking element is configured to deliver the vaporizable liquid to the heating element, and wherein the entire heating element is disposed between the insertion end of the chamber and

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the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element; and

one or more cartomizer electrical contacts for connecting with the one or more battery electrical contacts in or proximate the chamber.

18. (Previously Presented) The vaporizer of claim 17, wherein the plurality of charger electrical contacts are arranged linearly at the first end of the battery portion.

19. (Canceled)

20. (Previously Presented) The vaporizer of claim 17, further comprising a window on or proximate to the shell, the window permitting viewing of the cartomizer when the cartomizer is inserted into the chamber.

21. (Previously Presented) The vaporizer of claim 1, the battery portion further comprising at least one magnet in or proximate to the chamber of the cartomizer receiving segment.

22. (Previously Presented) The vaporizer of claim 21, the cartomizer further comprising a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

23. (Previously Presented) The vaporizer of claim 17, the battery portion further comprising at least one magnet in or proximate to the chamber of the cartomizer receiving segment.

24. (Previously Presented) The vaporizer of claim 23, the cartomizer further comprising a metal element disposed near a base end of the cartomizer for coupling with the at least one magnet of the battery portion.

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REMARKS

By this Amendment, Claims 1-4, 6-14, 16-18, and 20-24 are pending. Reconsideration of the application is respectfully requested in view of the above amendments and the remarks below.

Double Patenting Rejection

Claims 1-4, 6-14, 16-18 and 20-24 stand provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-30 of U.S. Patent No. 10,667,567. A terminal disclaimer is submitted herewith to overcome the rejection.

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CONCLUSION

On the basis of the foregoing amendments, the pending claims are in condition for allowance. It is believed that all of the pending claims have been addressed in this paper. However, failure to address a specific rejection, issue or comment, does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above are not intended to be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper.

Any claim amendments which are not specifically discussed in the above remarks are not made for patentability purposes, and it is believed that the claims would satisfy the statutory requirements for patentability without the entry of such amendments. Rather, these amendments have only been made to increase claim readability, to improve grammar, and to reduce the time and effort required of those in the art to clearly understand the scope of the claim language.

No additional fees are believed to be due. However, the Commissioner is hereby authorized to charge any additional claim fees and any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311. If there are any questions regarding this response, the Examiner is encouraged to contact the undersigned at the telephone number provided below.

Dated: December 7, 2020

Respectfully submitted,

Electronic Signature: /FCH/

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Attorney for Applicant

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

Application No.: 16/119,359	Confirmation No.: 7336
Filed: August 31, 2018	Art Unit: 1743
For: Vaporizer	Examiner: Ahmed Ali, Mohamed K

RESPONSE TO FINAL OFFICE ACTION

FILED VIA EFS

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

Dear Sir:

In response to the Final Office Action dated September 11, 2020 (hereinafter "Office Action"), Applicant respectfully submits the following amendments and remarks for consideration.

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

Remarks/Arguments begin on page 7 of this paper.

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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 16/119,359	Filing Date 08/31/2018	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $460 =	
☐ 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	12/07/2020	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 21	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

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

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

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Application Number * 16/119,359 *	Application/Control No. 16/119,359	Applicant(s)/Patent under Reexamination Verleur et al.	
	Examiner AHMED ALI, MOHAMED K	Art Unit 1743	

Document Code - DISQ	Internal Document - DO NOT MAIL

TERMINAL DISCLAIMER	☑ APPROVED	☐ DISAPPROVED
Date Filed: 07 December 2020	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

/LAWANA R HIXON/

Technology Center: OPLC

Telephone: (571)272-6074

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S173	6,705	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:12
S174	2,660	A61M15/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:12
S175	1,946	S173 and S174	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:12
S176	208	S175 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:12
S177	41	S176 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:12
S178	166	(US-10039321-$ | US-10058122-$ | US-10058124-$ | US-10085481-$ | US-10111467-$ | US-10143233-$ | US-10195370-$ | US-20020043262-$ | US-20020078951-$ | US-20020088469-$ | US-20040050382-$ | US-20050134215-$ | US-20070074734-$ | US-20070229025-$ | US-20070277816-$ | US-20070283972-$ | US-20080029095-$ | US-20080302374-$ | US-20090293892-$ | US-20090302019-$ | US-20100194337-$ | US-20100207576-$ | US-20100253279-$ | US-20110036346-$ | US-20110159705-$ | US-20110192397-$ | US-20110226266-$ | US-20110265806-$ | US-20110303231-$ | US-20120018529-$ | US-20120048266-$ | US-20120199663-$ | US-20120223673-$ | US-20120255546-$ | US-20120318882-$ | US-20120325227-$ | US-20130014772-$ | US-20130037041-$ | US-20130042865-$ | US-20130104916-$ | US-20130168880-$ | US-20130174842-$ | US-20130182421-$ | US-20130192623-$ | US-20130213420-$ | US-20130220315-$ | US-20130228191-$ | US-20130253433-$ | US-20130255675-$ | US-20130284194-$ | US-20130288081-$ | US-20130323941-$ |	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:12

		US-20130333711-$ | US-20140014124-$ | US-20140041655-$ | US-20140053856-$ | US-20140053857-$ | US-20140096781-$ | US-20140123989-$ | US-20140150783-$ | US-20140150784-$ | US-20140158129-$ | US-20140174458-$ | US-20140182610-$ | US-20140182612-$ | US-20140190496-$ | US-20140202454-$ | US-20140253144-$ | US-20140261490-$ | US-20140299137-$ | US-20140366898-$ | US-20150013695-$ | US-20150020831-$ | US-20150027471-$ | US-20150059783-$ | US-20150059787-$ | US-20150090256-$ | US-20150090278-$ | US-20150090281-$ | US-20150091501-$ | US-20150101625-$ | US-20150118895-$ | US-20150128976-$ | US-20150157055-$ | US-20150208728-$ | US-20150208730-$ | US-20150216237-$ | US-20150217068-$ | US-20150223521-$ | US-20150223523-$ | US-20150257441-$ | US-20150282526-$ | US-20150289565-$ | US-20150296888-$ | US-20150305409-$ | US-20150333552-$ | US-20150333561-$ | US-20160007653-$ | US-20160044962-$ | US-20160051716-$ | US-20160120226-$ | US-20160270446-$ | US-20160278436-$ | US-20160302471-$ | US-20160302486-$ | US-20160345628-$ | US-20160353804-$ | US-20170013875-$ | US-20170013876-$ | US-20170071251-$ | US-20170086501-$ | US-20170157341-$ | US-20170197046-$ | US-20170207499-$ | US-20170208865-$ | US-20170214261-$ | US-20170222468-$ | US-20170246405-$ | US-20180303169-$ | US-3085145-$ | US-3918451-$ | US-3934117-$ | US-4171000-$ | US-4745705-$ | US-4771796-$ | US-4793365-$ | US-4811731-$ | US-4848374-$ | US-4941236-$ | US-4947874-$ | US-4947875-$ | US-4972855-$ | US-4993436-$ | US-5042509-$ | US-5117482-$ | US-5144962-$ | US-5261424-$ | US-5269327-$ | US-5479948-$ | US-5682050-$ | US-6090082-$ | US-6155268-$ | US-6322268-$ | US-6443146-$ | US-6516796-$ | US-6532965-$ | US-6708846-$ | US-6772756-$ | US-7173222-$ | US-			

		7318435-$ | US-7726320-$ | US-7802569-$ | US-7913688-$ | US-8371310-$ | US-8522776-$ | US-8869792-$ | US-8893726-$ | US-8978663-$ | US-9072321-$ | US-9345541-$ | US-9386805-$ | US-9420829-$ | US-9423152-$ | US-9498588-$ | US-9609893-$).DID.				
S179	132	S178 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:13
S180	91	((("VERLEUR") near3 ("Jan")) OR (("RECIO") near3 ("Dan")) OR (("LU") near3 ("Yifeng")) OR (("ZHANG") near3 ("Yinjun")) OR (("FAJARDO") near3 ("Arturo")) OR (("VERLEUR") near3 ("Hans"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2020/12/13 17:13
S181	48	((("Lu") near3 ("Yifeng"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:13
S182	22	((("Zhang") near3 ("Yinjun"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:13
S183	14	(US-9629391-$ | US-9738622-$ | US-9795168-$ | US-9801413-$ | US-9814265-$ | US-9820508-$ | US-9844234-$ | US-9861135-$ | US-9918496-$ | US-9974743-$ | US-D590990-$ | US-D675777-$ | US-D688415-$ | US-D750835-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:14
S184	166	(US-10039321-$ | US-10058122-$ | US-10058124-$ | US-10085481-$ | US-10111467-$ | US-10143233-$ | US-10195370-$ | US-20020043262-$ | US-20020078951-$ | US-20020088469-$ | US-20040050382-$ | US-20050134215-$ | US-20070074734-$ | US-20070229025-$ | US-20070277816-$ | US-20070283972-$ | US-20080029095-$ | US-20080302374-$ | US-20090293892-$ | US-20090302019-$ | US-20100194337-$ | US-20100207576-$ | US-20100253279-$ | US-20110036346-$ | US-20110159705-$ | US-20110192397-$ | US-20110226266-$ | US-20110265806-$ | US-20110303231-$ | US-20120018529-$ | US-20120048266-$ | US-20120199663-$ | US-20120223673-$ | US-20120255546-$ | US-20120318882-$ | US-20120325227-$ | US-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:14

		20130014772-$ | US-20130037041-$ | US-20130042865-$ | US-20130104916-$ | US-20130168880-$ | US-20130174842-$ | US-20130182421-$ | US-20130192623-$ | US-20130213420-$ | US-20130220315-$ | US-20130228191-$ | US-20130253433-$ | US-20130255675-$ | US-20130284194-$ | US-20130288081-$ | US-20130323941-$ | US-20130333711-$ | US-20140014124-$ | US-20140041655-$ | US-20140053856-$ | US-20140053857-$ | US-20140096781-$ | US-20140123989-$ | US-20140150783-$ | US-20140150784-$ | US-20140158129-$ | US-20140174458-$ | US-20140182610-$ | US-20140182612-$ | US-20140190496-$ | US-20140202454-$ | US-20140253144-$ | US-20140261490-$ | US-20140299137-$ | US-20140366898-$ | US-20150013695-$ | US-20150020831-$ | US-20150027471-$ | US-20150059783-$ | US-20150059787-$ | US-20150090256-$ | US-20150090278-$ | US-20150090281-$ | US-20150091501-$ | US-20150101625-$ | US-20150118895-$ | US-20150128976-$ | US-20150157055-$ | US-20150208728-$ | US-20150208730-$ | US-20150216237-$ | US-20150217068-$ | US-20150223521-$ | US-20150223523-$ | US-20150257441-$ | US-20150282526-$ | US-20150289565-$ | US-20150296888-$ | US-20150305409-$ | US-20150333552-$ | US-20150333561-$ | US-20160007653-$ | US-20160044962-$ | US-20160051716-$ | US-20160120226-$ | US-20160270446-$ | US-20160278436-$ | US-20160302471-$ | US-20160302486-$ | US-20160345628-$ | US-20160353804-$ | US-20170013875-$ | US-20170013876-$ | US-20170071251-$ | US-20170086501-$ | US-20170157341-$ | US-20170197046-$ | US-20170207499-$ | US-20170208865-$ | US-20170214261-$ | US-20170222468-$ | US-20170246405-$ | US-20180303169-$ | US-3085145-$ | US-3918451-$ | US-3934117-$ | US-4171000-$ | US-4745705-$ | US-4771796-$ | US-4793365-$ | US-4811731-$ | US-4848374-$ | US-4941236-$ | US-4947874-$ | US-4947875-$ | US-			

		4972855-$ | US-4993436-$ | US-5042509-$ | US-5117482-$ | US-5144962-$ | US-5261424-$ | US-5269327-$ | US-5479948-$ | US-5682050-$ | US-6090082-$ | US-6155268-$ | US-6322268-$ | US-6443146-$ | US-6516796-$ | US-6532965-$ | US-6708846-$ | US-6772756-$ | US-7173222-$ | US-7318435-$ | US-7726320-$ | US-7802569-$ | US-7913688-$ | US-8371310-$ | US-8522776-$ | US-8869792-$ | US-8893726-$ | US-8978663-$ | US-9072321-$ | US-9345541-$ | US-9386805-$ | US-9420829-$ | US-9423152-$ | US-9498588-$ | US-9609893-$).DID.				
S185	38	"46799664".FMID.	US-PGPUB; USPAT; FPRS	OR	OFF	2020/12/13 17:14
S186	10	("20150128976" | "20160353804" | "20170197046" | "8893726" | "20160278436" | "9498588" | "20150020831" | "20150305409" | "5269327" | "20130213420").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:14
S187	633	((("Liu") near3 ("Qiuming"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:14
S188	3	S187 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:14
S189	6,705	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:16
S190	2,660	A61M15/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:16
S191	1,946	S189 and S190	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:16
S192	208	S191 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:16
S193	41	S192 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:16
S194	179	((("RAI") near3 ("Strategic") near3 ("Holdings") near3 ("Inc"))).AS,AANM.	USPAT	OR	OFF	2020/12/13 17:18

S195	167	S194 and ((battery (power (source supply)) same ((Charg$3 re$2charg$3) near5 (base receptacl))))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:18
S196	48	S195 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:18
S197	2	"20160143364"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:21
S198	2	"20140000638"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:21
S199	6,705	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:21
S200	2,660	A61M15/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:21
S201	1,946	S199 and S200	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:21
S202	208	S201 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:21
S203	41	S202 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:21
S204	6,705	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:22
S205	2,660	A61M15/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:22
S206	1,946	S204 and S205	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:22
S207	208	S206 and ((wire coil resist$4 impedance) with (ohm$1 milliohm$))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:22
S208	41	S207 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:22
S209	4	("20150079327" | "20150331402" | "20160236416" | "20160221266").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:22

S210	6	"49042112".FMID.	US-PGPUB; USPAT; FPRS; JPO	OR	ON	2020/12/13 17:22
S211	21	(US-20160213066-$ or US-20130228191-$ or US-20140150783-$ or US-20140096781-$ or US-20150157055-$ or US-20150313287-$ or US-20150305409-$ or US-20150208728-$ or US-20150201674-$ or US-20150090278-$ or US-20140366898-$ or US-20130284194-$ or US-20130255702-$ or US-20110036346-$ or US-20150083147-$ or US-20130192623-$ or US-20180303169-$ or US-20130288081-$).did. or (US-9364024-$ or US-5957717-$ or US-5269327-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:24
S212	2	"48876247".FMID.	US-PGPUB; USPAT; FPRS; JPO	OR	ON	2020/12/13 17:24
S213	18	((("NEWTON") near3 ("Kyle"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/12/13 17:24
S214	292	("20050016550" | "20060196518" | "20070267031" | "20090095311" | "20100031967" | "5060671" | "7726320").PN. OR ("8499766").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2020/12/13 17:24
S215	109	S214 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:24
S216	1,431	(A24F47/008).cpc. and ((Battery control$3 power) same (chamber hous$3 receptacle) same (receiv$3 insert$3) with (cartomiz$3 vaporiz$3 atomizer heat$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:24
S217	363	S216 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/12/13 17:24

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S218	6,679	(A24F47/008 A24F47/004 A24F47/006).cpc.	US-PGPUB; USPAT	OR	OFF	2020/12/13 17:25

S219	2,639	A61M15/06.cpc.	US-PGPUB; USPAT	OR	OFF	2020/12/13 17:25
S220	1,945	S218 and S219	US-PGPUB; USPAT	OR	OFF	2020/12/13 17:25
S221	472	S220 and ((Battery control$3 power) same (chamber hous$3 receptacle) same (receiv$3 insert$3) with (cartomiz$3 vaporiz$3 atomizer heat$3))	US-PGPUB; USPAT	OR	OFF	2020/12/13 17:25
S222	108	S221 and (@pd or @ptad or @prad or @ad or @rlad)<"20131112"	US-PGPUB; USPAT	OR	OFF	2020/12/13 17:25
S223	13	("20080257367" | "20110265806" | "20110304282" | "20130104916" | "20130192615" | "20140251324" | "20140261489" | "5388594" | "5505214" | "5954979" | "6040560" | "8550069" | "8820330").PN. OR ("10064434").URPN.	US-PGPUB; USPAT	OR	ON	2020/12/14 22:18
S224	58	("20050016550" | "20110094523" | "20120145169" | "20120199146" | "20130228191" | "6155268" | "6443146" | "6532965" | "7832410").PN. OR ("9351522").URPN.	US-PGPUB; USPAT	OR	ON	2020/12/14 22:19
S225	40	("20110155718" | "20130037041" | "20130340750" | "20140318559" | "20150027455" | "20150164143").PN. OR ("9603389").URPN.	US-PGPUB; USPAT	OR	ON	2020/12/14 22:19

12/14/2020 10:21:55 PM
C:\Users\mali5\Documents\EAST\Workspaces\16119359.wsp

Bibliographic Data

Application No: 16/119,359

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: /MOHAMED K AHMED ALI/ (Examiner's Signature) | Initials

Title: Vaporizer

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
08/31/2018	131	1743	55755-402C02US/301
RULE			

APPLICANTS

VMR Products, LLC, Miami, KY, UNITED STATES

INVENTORS

Jan Andries Verleur, Miami Beach, FL, UNITED STATES

Dan Recio, Miami, FL, UNITED STATES

Yifeng Lu, Miami, FL, UNITED STATES

Yinjun Zhang, Miami, FL, UNITED STATES

Arturo Fajardo, Miami, FL, UNITED STATES

Hans Verleur, El Dorado, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 14539801 11/12/2014 PAT 10085481

This application is a CON of 62015148 06/20/2014

This application is a CON of 61937851 02/10/2014

This application is a CON of 61903344 11/12/2013

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

09/19/2018

STATE OR COUNTRY

UNITED STATES

ADDRESS

Mintz/JUUL

One Financial Center

Boston, MA 02111

UNITED STATES

FILING FEE RECEIVED

$1,880

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

148514 7590 12/30/2020

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER
AHMED ALI, MOHAMED K

ART UNIT	PAPER NUMBER
1743	

DATE MAILED: 12/30/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/119,359	08/31/2018	Jan Andries Verleur	55755-402C02US/301	7336

TITLE OF INVENTION: Vaporizer

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	03/30/2021

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: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 02/11)

NJOY Exhibit 1007.434

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

148514 7590 12/30/2020

Mintz/JUUL
One Financial Center
Boston, MA 02111

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/119,359	08/31/2018	Jan Andries Verleur	55755-402C02US/301	7336

TITLE OF INVENTION: Vaporizer

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	03/30/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
AHMED ALI, MOHAMED K	1743	131-329000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

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

1 _____
2 _____
3 _____

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (08-18) Approved for use through 01/31/2020 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

NJOY Exhibit 1007.435

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.
16/119,359	08/31/2018	Jan Andries Verleur	55755-402C02US/301	7336

148514 7590 12/30/2020

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER	
AHMED ALI, MOHAMED K	
ART UNIT	PAPER NUMBER
1743	

DATE MAILED: 12/30/2020

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.

NJOY Exhibit 1007.436

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/119,359	Applicant(s) Verleur et al.	
	Examiner MOHAMED K AHMED ALI	Art Unit 1743	AIA (FITF) Status Yes

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 12/07/2020.
   ☐ 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 1-4,6-14,16-18 and 20-24 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

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

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

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

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

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

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

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	/JOSEPH S DEL SOLE/ Supervisory Patent Examiner, Art Unit 1743

NJOY Exhibit 1007.438

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Status of the Application

This is an allowability notice in response to applicant's remarks and amendments filed on 12/07/20. Claims 1-4, 6-14, 16-18 and 20-24 are previously presented and claims 5, 15 and 19 are cancelled. Accordingly, Claims 1-4, 6-14, 16-18 and 20-24 are allowed.

Terminal Disclaimer

The terminal disclaimer filed on 12/07/2020 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of **U.S. Patent No. 10,667,567** has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

Claims 1-4, 6-14, 16-18 and 20-24 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding **Independent Claim 1,** the primary reason why it is deemed novel and non- obvious over the prior art of record to have a vaporizer as instantly claimed is that the prior arts Worm (US 2013/0037041 – of record), which is regarded as being the prior arts closest to subject- matter of the claim 1, alone or in combination fails to teach or suggest the vaporizer comprising a cartomizer insertable into the chamber at the insertion end, the cartomizer comprising: a body including a structure configured to hold a vaporizable liquid; a wicking element provided within the body and at least partially in contact with the vaporizable liquid; a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid, and wherein the entire heating element is disposed between the insertion end of the chamber and the base end of the chamber when the cartomizer is inserted into the chamber such that the outer shell protects the heating element.

Therefore, claim 1 is deemed novel and non-obvious over the prior art of record.

Regarding claims 2-10 and 21-22, they depend from claim 1; thus, they are also deemed novel and non-obvious over the prior art of record.

Regarding **Independent Claim 11,** the primary reason why it is deemed novel and non- obvious over the prior art of record to have a vaporizer as instantly claimed is that the prior arts Worm (US 2013/0037041 – of record), which is regarded as being the prior arts closest to subject- matter of the claim 11, alone or in combination fails to teach or suggest the vaporizer comprising a cartomizer receiving segment defining a cartomizer chamber having an insertion end distal from the battery housing segment; a cartomizer insertable into the cartomizer chamber at the insertion end, the cartomizer comprising: a body including a structure configured to hold a vaporizable liquid; a wicking element provided within the body and at least partially in contact with the vaporizable liquid; a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid, and wherein the entire heating element is disposed between the insertion end of the cartomizer chamber and the base end of the cartomizer chamber when the cartomizer is inserted into the cartomizer chamber such that the outer shell protects the heating element.

Therefore, claim 11 is deemed novel and non-obvious over the prior art of record.

Regarding claims 12-14 and 16, they depend from claim 11; thus, they are also deemed novel and non-obvious over the prior art of record.

Regarding **Independent Claim 17,** the primary reason why it is deemed novel and non- obvious over the prior art of record to have a vaporizer as instantly claimed is that the prior arts Worm (US 2013/0037041 – of record), which is regarded as being the prior arts closest to subject- matter of the claim 17, alone or in combination fails to teach or suggest the vaporizer comprising a cartomizer receiving segment defining a cartomizer chamber having an insertion end distal from the battery housing segment; a cartomizer insertable into the cartomizer chamber at the insertion end, the cartomizer comprising: a body including a structure configured to hold a vaporizable liquid; a wicking element provided within the body and at least partially in contact with the vaporizable liquid; a heating element provided within the body in contact with the wicking element and operable to heat the vaporizable liquid, and wherein the entire heating element is disposed between the insertion end of the cartomizer chamber and the base end of the cartomizer chamber when the cartomizer is inserted into the cartomizer chamber such that the outer shell protects the heating element.

Therefore, claim 17 is deemed novel and non-obvious over the prior art of record.

Regarding claims 18, 20 and 23-24, they depend from claim 17; thus, they are also deemed novel and non-obvious over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMED K AHMED ALI whose telephone number is (571)272-0347. The examiner can normally be reached on 10:00 AM-7:30 PM.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Del Sole can be reached on 571-272-1130. 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 https://ppair-my.uspto.gov/pair/PrivatePair. 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.

/MOHAMED K AHMED ALI/
Examiner, Art Unit 1743

/JOSEPH S DEL SOLE/
Supervisory Patent Examiner, Art Unit 1743

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	**Art Unit**
	MOHAMED K AHMED ALI	1743

CPC						
Symbol					**Type**	**Version**
A24F	/	47	/	008	F	2020-01-01
A61M	/	15	/	06	I	2013-01-01
A61M	/	11	/	042	I	2014-02-04
H02J	/	7	/	00	I	2013-01-01
A24F	/	40	/	00	I	2020-01-01
A24F	/	40	/	44	I	2020-01-01
H02J	/	7	/	0042	I	2013-01-01
A61M	/	2205	/	8237	A	2013-01-01
A61M	/	2205	/	332	A	2013-01-01
A61M	/	2205	/	3368	A	2013-01-01
A61M	/	2205	/	502	A	2013-01-01
A61M	/	2205	/	584	A	2013-01-01
A61M	/	2205	/	8206	A	2013-01-01
A24F	/	40	/	40	A	2020-01-01
A61M	/	15	/	0021	A	2014-02-04
H02J	/	7	/	0048	A	2020-01-01
A61M	/	2205	/	07	A	2013-01-01
A61M	/	2205	/	3633	A	2013-01-01
A61M	/	2205	/	3653	A	2013-01-01
A61M	/	2205	/	6027	A	2013-01-01
A61M	/	2205	/	6081	A	2013-01-01
A61M	/	2206	/	20	A	2013-01-01
A61M	/	2209	/	06	A	2013-01-01
H02J	/	7	/	0047	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	14 December 2020	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/JOSEPH S DEL SOLE/ Supervisory Patent Examiner, Art Unit 1743	15 December 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	Fig. 2C

U.S. Patent and Trademark Office — Part of Paper No.: 20201214

NJOY Exhibit 1007.442

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	**Art Unit**
	MOHAMED K AHMED ALI	1743

INTERNATIONAL CLASSIFICATION					
CLAIMED					
A24F47/00	/	47	/	00	
A61M15/06	/	15	/	06	
A61M15/00	/	15	/	00	

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743 (Assistant Examiner)	14 December 2020 (Date)	**Total Claims Allowed:** 21	
/JOSEPH S DEL SOLE/ Supervisory Patent Examiner, Art Unit 1743 (Primary Examiner)	15 December 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure Fig. 2C

NJOY Exhibit 1007.443

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	**Art Unit**
	MOHAMED K AHMED ALI	1743

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	14 December 2020	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/JOSEPH S DEL SOLE/ Supervisory Patent Examiner, Art Unit 1743	15 December 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	Fig. 2C

U.S. Patent and Trademark Office Part of Paper No.: 20201214

NJOY Exhibit 1007.444

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	Art Unit
	MOHAMED K AHMED ALI	1743

CPC - Searched*		
Symbol	**Date**	**Examiner**
A24F47/008, A24F47/004, A24F47/006, A61M15/06.	01/05/2019	MK
Updated	02/27/2020	MK
Updated	07/23/2020	MK
Updated	12/13/2020	MK

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

Search Notes		
Search Notes	**Date**	**Examiner**
Inventor names searched in East	01/05/2019	MK
Assignee name searched in Palm	01/05/2019	MK
See east history search attached	01/05/2019	MK
see updated east history search attached	07/22/2019	MK
see updated east history search attached	02/27/2020	MK
see updated east history search attached	07/23/2020	MK
see updated east history search attached	12/13/2020	MK

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	

NJOY Exhibit 1007.445

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/119,359	Verleur et al.
	Examiner	Art Unit
	MOHAMED K AHMED ALI	1743

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	see updated east history search attached	09/01/2020	MK
	see updated east history search attached	12/14/2020	MK

/MOHAMED K AHMED ALI/ Examiner, Art Unit 1743	

NJOY Exhibit 1007.446

Corrected Application Data Sheet

Inventor Information

Inventor Number::	1
Given Name::	Jan
Middle Name::	Andries
Family Name::	Verleur
City of Residence::	Miami Beach
State or Province of Residence::	FL
Country of Residence::	US

Inventor Number::	2
Given Name::	Dan
Family Name::	Recio
City of Residence::	Miami
State or Province of Residence::	FL
Country of Residence::	US

Inventor Number::	3
Given Name::	Yifeng
Family Name::	Lu
City of Residence::	Miami
State or Province of Residence::	FL
Country of Residence::	US

Inventor Number::	4

NJOY Exhibit 1007.447

Given Name::	Yinjun
Family Name::	Zhang
City of Residence::	Miami
State or Province of Residence::	FL
Country of Residence::	US

Inventor Number::	5
Given Name::	Arturo
Family Name::	Fajardo
City of Residence::	Miami
State or Province of Residence::	FL
Country of Residence::	US

Inventor Number::	6
Given Name::	Hans
Family Name::	Verleur
City of Residence::	El Dorado
State or Province of Residence:	CA
Country of Residence::	US

Correspondence Information

Correspondence Customer Number::	~~156465~~ 148514
E-Mail address::	~~patent@hillyerlegal.com~~
	IPDocketingBOS@mintz.com

NJOY Exhibit 1007.448

Application Information

Application Number::	16/119,359
Filing Date::	08/31/18
Application Type::	Nonprovisional
Subject Matter::	Utility
CD-ROM or CD-R?::	None
Sequence submission?::	None
Computer Readable Form (CRF)?::	No
Title::	VAPORIZER
Attorney Docket Number::	~~1597-301~~ 55755-402C02US
Request for Early Publication?::	No
Request for Non-Publication?::	No
Small Entity?::	No
Petition included?::	No
Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2::	No

Representative Information

Representative Customer Number::	~~15665~~ 148514

NJOY Exhibit 1007.449

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::	Prior Appl Status::
	Continuation of	14/539,801	11/12/14	Patented
14/539,801	~~Continuation of~~ Claims benefit of provisional	62/015,148	06/20/14	Expired
14/539,801	~~Continuation of~~ Claims benefit of provisional	61/937,851	02/10/14	Expired
14/539,801	~~Continuation of~~ Claims benefit of provisional	61/903,344	11/12/13	Expired

Foreign Priority Information

Applicant Information

Applicant Number:: 1

Applicant Type:: Assignee

Organization Name:: VMR Products, LLC

Assignee Information Including Non-Applicant Assignee Information

NJOY Exhibit 1007.450

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).** This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants. See 37 CFR 1.4(d) for the manner of making signatures and certifications.			
Signature	/FCH/	Date (YYYY-MM-DD)	March 1, 2021
Name	Fred C. Hernandez	Registration Number	41,832

NJOY Exhibit 1007.451

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of: Jan Andries Verleur et al.	Allowed: December 30, 2020
Application No.: 16/119,359	Confirmation No.: 7336
Filed: August 31, 2018	Art Unit: 3736
For: VAPORIZER	Examiner: M.M. Ahmed

PETITION FOR UNINTENTIONALLY DELAYED CLAIM FOR PRIORITY UNDER 37 CFR § 1.78(c)

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

Dear Commissioner:

Applicant respectfully submits herewith the present petition, the surcharge set forth in 37 CFR § 1.17(m), and a Corrected Application Data Sheet (ADS) to correct the domestic priority claim in the instant application. The priority claim to a U.S. provisional patent application was listed incorrectly in the Application Data Sheet as filed on August 31, 2018 in the above-referenced application.

Upon filing the application, a priority claim was set forth in paragraph [0001] of the specification, reproduced below.

> **CROSS REFERENCE TO RELATED APPLICATIONS**
>
> **[0001]** This application claims the benefit of U.S. Provisional Application Nos. 61/903,344 filed November 12, 2013, 61/937,851, filed February 10, 2014, U.S. Provisional Application No. 62/015,148, filed June 20, 2014, and U.S. Patent Application Serial No. 14/539,801 filed Nov. 12, 2014, the disclosure of which are hereby incorporated herein by reference in their entireties.

The Application Data Sheet listed the instant application as a Continuation of U.S. Application 14/539,801, filed November 12, 2014, now Patent No. 10085481, and further as continuations of U.S. Provisional Application Nos. 62/015,148, 61/937,851 and 61/903,344. However, U.S. Application 14/539,801 (now Patent No. 10085481) claims the benefit of priority to U.S.

Provisional Application Nos. 62/015,148, 61/937,851 and 61/903,344 rather than being a continuation of those provisional applications (although the instant application has benefit of priority to those provisional applications by virtue of being a continuation of U.S. Application 14/539,801.)

The application was transferred to current counsel from prior counsel after filing. After assuming prosecution, an internal audit was conducted in which this unintentional error of the domestic priority claim was then first identified. Prior to this audit, Applicant, as well as prior counsel, was unaware of this unintentional error.

Pursuant to 37 C.F.R. § 1.78(c), and based on the information gathered by the undersigned and summarized above, the entire delay between the date the benefit claim due under paragraph 37 C.F.R. § 1.78(a)(4) and the date in which current counsel assumed prosecution, i.e., October 19, 2018, was unintentional. Further, the entire delay between October 19, 2018 and March 1, 2021 was unintentional. As such, correction of the priority claim in this matter and entry of the corrected Application Data Sheet filed is respectfully requested.

Applicant respectfully requests that the priority claim be corrected as follows:

This application is a Continuation of 14/539,801, filed November 12, 2014, now Patent No. 10085481, which claims benefit of Provisional Application Nos. 62/015,148 filed June 20, 2014, 61/937,851 filed 02/10/2014 and 61/903,344 filed November 12, 2013.

A Corrected Application Data Sheet reflecting this correction to the priority claim, marked up Filing Receipt and the required fee, are submitted herewith. Applicant additionally requests that all pertinent U.S. Patent and Trademark Office records relating to the subject application be changed to reflect these corrections. If the Office believes a telephone conference would expedite prosecution of this application, Applicant invites the Office to contact the undersigned.

NJOY Exhibit 1007.453

Applicant believes no additional fees are due with this submission. However, if such a fee is due, the Director is hereby authorized to charge our Deposit Account No. 50-0311, under Order No. 16/119,359, from which the undersigned is authorized to draw.

Dated: March 1, 2021

Respectfully submitted,

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

108630277v.1

NJOY Exhibit 1007.454

Electronic Patent Application Fee Transmittal

Application Number:	16119359
Filing Date:	31-Aug-2018
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Fred C. Hernandez/Teri Barnett
Attorney Docket Number:	55755-402C02US/301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
PET. DELAY SUB OR RESTORE PRIORITY-CLAIM	1454	1	2100	2100
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**2100**

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/119,359	08/31/2018		1880	1597-301	2	1

CONFIRMATION NO. 7336

FILING RECEIPT

156465
Hillyer Legal, PLLC
5335 Wisconsin Ave. NW
Suite 440
Washington, DC 20015-2052

OC000000102433284

Date Mailed: 09/21/2018

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)

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

Applicant(s)

VMR Products, LLC, Miami, ~~KY;~~ FL

Assignment For Published Patent Application

VMR Products, LLC, Miami, FL

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 14/539,801 11/12/2014 PAT 10085481
which claims benefit of ~~and is a CON of~~ 62/015,148 06/20/2014
and claims the benefit of ~~and is a CON of~~ 61/937,851 02/10/2014
and claims the benefit of ~~and is a CON of~~ 61/903,344 11/12/2013

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

Permission to Access Application via Priority Document Exchange: Yes

NJOY Exhibit 1007.457

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 09/19/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/119,359**

Projected Publication Date: 12/27/2018

Non-Publication Request: No

Early Publication Request: No

Title

Vaporizer

Preliminary Class

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

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

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

NJOY Exhibit 1007.460

Electronic Acknowledgement Receipt	
EFS ID:	42057651
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Fred C. Hernandez/Teri Barnett
Filer Authorized By:	Fred C. Hernandez
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	01-MAR-2021
Filing Date:	31-AUG-2018
Time Stamp:	18:08:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$2100
RAM confirmation Number	E202131I09204666
Deposit Account	500311
Authorized User	Teri Barnett
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.19 (Document supply fees) 37 CFR 1.21 (Miscellaneous fees and charges)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition for review by the Office of Petitions	55755_402C02US_Petition_Unintentionally_Delayed_Claim_For_Priority.pdf	129650 9eb5bb35720cce6fe467a60527e1f374fbedd7ba	no	3
Warnings:					
Information:					
2	Application Data Sheet	55755_402C02US_Corrected_ADS.pdf	106034 c96f08866289cff243705b089f11eebec3682f0a	no	5
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Miscellaneous Incoming Letter	55755_402C02US_marked_up_Filing_Receipt.pdf	222432 8f106354f3ec1d8c9d6d34922b9f21d4635f4a95	no	4
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30316 362d939dd6d5d7b11f56f4724a2392e8a7e65b67	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	488432		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PART B–FEE(S) TRANSMITTAL

Complete and send this form, together with the applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By fax, send to: (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

148514 7590 12/30/2020
MINTZ/ JUUL
One Financial Center
Boston, MA 02111

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
16/119,359	08/31/2018	Jan Andries Verleur	055755-402C02US	7336

TITLE OF INVENTION: VAPORIZER

APPLN: TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1,200.00			$1,200.00	03/30/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
Ahmed Ali, Mohamed K.	1743	131-329000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363)

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

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

1. Mintz Levin Cohn Ferris Glovsky and Popeo, P.C.
2.
3.

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: VMR Products LLC

(B) RESIDENCE: (CITY and STATE or COUNTRY): San Francisco, California

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees Submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment (*Please first reapply any previously paid fee shown above*):

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-0311

5. Change of Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29. 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.

☐ Applicant asserting small entity status. See 37 CFR 1.27. NOTE: If the application was previously under micro entity status, checking this box will be taken as a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status. NOTE: Checking this box will be taken as 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 /FCH/ Date March 30, 2021

Typed or printed name Fred C. Hernandez Registration No. 41,832

NJOY Exhibit 1007.464

Electronic Patent Application Fee Transmittal

Application Number:	16119359
Filing Date:	31-Aug-2018
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Filer:	Fred C. Hernandez/Teri Barnett
Attorney Docket Number:	55755-402C02US/301

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1200**

Docket No.: 55755-402C02US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Utility Application of: Jan Andries Verleur et al.	Allowed: December 30, 2020
Application No.: 16/119,359	Confirmation No.: 7336
Filed: August 31, 2018	Art Unit: 3736
For: VAPORIZER	Examiner: M. M. Ahmed

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE UNDER 37 C.F.R. § 1.104(e)

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

Dear Sir:

Applicant has received the Examiner's Statement of Reasons for Allowance with the December 30, 2020 Notice of Allowance and Allowability regarding the above-identified application. Entry of the Statement into the record should not be construed as any agreement with or acquiescence in the reasoning stated by the Examiner. Each of the claims stands on its own merits and is patentable because of the combination it recites and not because of the presence or absence of any one particular element.

The Examiner's Statement was not prepared by Applicant and only contains the Examiner's possible positions in one or more reasons for allowability. Thus, any interpretation with

respect to the Examiner's Statement of Reasons for Allowance should not be imputed to the Applicant.

Dated: March 30, 2021

Respectfully submitted,

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

NJOY Exhibit 1007.468

Electronic Acknowledgement Receipt	
EFS ID:	42319290
Application Number:	16119359
International Application Number:	
Confirmation Number:	7336
Title of Invention:	Vaporizer
First Named Inventor/Applicant Name:	Jan Andries Verleur
Customer Number:	148514
Filer:	Fred C. Hernandez/Teri Barnett
Filer Authorized By:	Fred C. Hernandez
Attorney Docket Number:	55755-402C02US/301
Receipt Date:	30-MAR-2021
Filing Date:	31-AUG-2018
Time Stamp:	13:03:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1200
RAM confirmation Number	E20213TD04053340
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	55755_402C02US_Issue_Fee.pdf	156092 df10628743f7f886eca2af750ebe1f769daa61c8	no	1
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	55755_402C02US_Comments_on_Reasons_For_Allowance.pdf	105641 ccc54bf9dd23bda6cc73c9b4cd87072e1e309a2e	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	29921 029abe1c124ba6a090a614b6087a732280917943	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	291654		

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

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UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/119,359	08/31/2018	1743	1980	55755-402C02US/301	2	1

CONFIRMATION NO. 7336

148514
Mintz/JUUL
One Financial Center
Boston, MA 02111

CORRECTED FILING RECEIPT



Date Mailed: 09/09/2021

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

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

Applicant(s)

VMR Products, LLC, Miami, KY;

Assignment For Published Patent Application

VMR Products, LLC, Miami, FL

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

Domestic Priority data as claimed by applicant

This application is a CON of 14/539,801 11/12/2014 PAT 10085481
which claims benefit of 61/903,344 11/12/2013
and claims benefit of 61/937,851 02/10/2014
and claims benefit of 62/015,148 06/20/2014

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

NJOY Exhibit 1007.471

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 09/19/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/119,359**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

Vaporizer

Preliminary Class

131

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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NJOY Exhibit 1007.472

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

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

NOT GRANTED

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SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/119,359	10/05/2021	11134722	55755-402C02US/301	7336

148514 7590 09/15/2021

Mintz/JUUL
One Financial Center
Boston, MA 02111

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

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

VMR Products, LLC, Miami, KY;

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
16/119,359	08/31/2018	1743	1980	55755-402C02US/301	2	1

CONFIRMATION NO. 7336

148514
Mintz/JUUL
One Financial Center
Boston, MA 02111

CORRECTED FILING RECEIPT

OC000000128278127

Date Mailed: 09/09/2021

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

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

Inventor(s)

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

Applicant(s)

VMR Products, LLC, Miami, KY;

Assignment For Published Patent Application

VMR Products, LLC, Miami, FL

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

Domestic Priority data as claimed by applicant

This application is a CON of 14/539,801 11/12/2014 PAT 10085481
which claims benefit of 61/903,344 11/12/2013
and claims benefit of 61/937,851 02/10/2014
and claims benefit of 62/015,148 06/20/2014

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.

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Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 09/19/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/119,359**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

Vaporizer

Preliminary Class

131

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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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 (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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

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NOT GRANTED

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/119,359	08/31/2018	Jan Andries Verleur	55755-402C02US/301	7336

148514 7590 09/15/2021

Mintz/JUUL
One Financial Center
Boston, MA 02111

EXAMINER
AHMED ALI, MOHAMED K

ART UNIT	PAPER NUMBER
1743	

NOTIFICATION DATE	DELIVERY MODE
09/15/2021	ELECTRONIC

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

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

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

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

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Inventors: Verleur et al.	:	
Application No. 16/119,359	:	Decision on Petition under
Filing Date: August 31, 2018	:	37 C.F.R. § 1.78(c)
Attorney Docket No. 55755-402C02US/301	:	

This is a decision on the petition under 37 C.F.R. § 1.78(c) filed March 1, 2021, to accept an unintentionally delayed claim under 35 U.S.C. § 119(e) for the benefit of priority to three provisional applications.

The petition is **granted**.

The benefit claims at issue was not timely filed prior to the expiration of the period specified in 37 C.F.R. § 1.78(a)(4). The petition requests acceptance of the late claim for priority.

A petition under 37 C.F.R. § 1.78(c) must be accompanied by:

(1) An application data sheet including the reference required 35 U.S.C. § 119(e) and 37 C.F.R. § 1.78(a)(3), unless previously submitted;
(2) The petition fee set forth in 37 C.F.R. § 1.17(m); and
(3) A statement that the entire delay between the date the claim was due under 37 C.F.R. § 1.78(a)(4) and the date the claim was filed was unintentional.[1]

The requirements set forth above have been satisfied, and the late benefit claim for priority under 35 U.S.C. § 119(e) is accepted as being unintentionally delayed.[2]

This decision grants the petition to accept the unintentionally delayed domestic benefit claim to the prior-filed provisional applications because the petition requirements of 37 C.F.R. § 1.78(c) and the formal requirements for claiming domestic benefit (*See* MPEP §§ 211.01 et. seq.) have been met. This acceptance should not be construed as meaning that this application is entitled to

[1] With respect to the statement of delay, the Office "may require additional information where there is a question whether the delay was unintentional." 37 C.F.R. § 1.78(e)(3).

[2] 37 C.F.R. § 1.78(c) requires the submission of a statement that the entire delay between the date the claim was due under 37 C.F.R. § 1.78(a)(4) and the date the claim was filed was unintentional. The statement of delay in the petition is being construed as the statement required under 37 C.F.R. § 1.78(c). If this is not a correct reading of the statement appearing in the petition, petitioner should promptly notify the Office.

the benefit of the prior-filed provisional applications. Whether a claimed invention in a nonprovisional application is entitled to the benefit of the filing date of a prior-filed application on the basis of the disclosure thereof is determined during examination if it becomes necessary to do so (e.g., intervening reference and interference proceeding). *See* MPEP § 211.05.

A corrected Filing Receipt including the late benefit claims accompanies this decision on petition.

Any questions concerning this matter may be directed to Attorney Advisor Steven Brantley at (571) 272-3203.

/Charles Steven Brantley/

Charles Steven Brantley
Attorney Advisor
Office of Petitions

Enclosure: Corrected Filing Receipt

AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the District of Arizona on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
CV 23-1204-PHX-SPL	6/30/2023	for the District of Arizona

PLAINTIFF	DEFENDANT
JUUL Labs, Inc. and VMR Products LLC	NJOY, LLC, NJOY Holdings, Inc., Altria Group, Inc., Altria Group Distribution Company, and Altria Client Services LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	RE49,114	6/28/2022	JUUL Labs, Inc.
2	10,130,123	11/20/2018	JUUL Labs, Inc.
3	10,709,173	7/14/2020	JUUL Labs, Inc.
4	11,134,722	10/5/2021	VMR Products LLC
5	11,606,981	3/21/2023	VMR Products LLC

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

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

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

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
DEBRA LUCAS	Rivera G Lopez	7/6/23

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