

Diego Gonzalez

1) Family number: 66638395 (US2017231281A)

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Title: VAPORIZER DEVICES WITH BLOW DISCRIMINATION

Abstract: Methods and apparatuses for discriminating between user blowing and drawing (sucking) in an electronic vaporization device. Described herein are electronic aerosol devices and methods of controlling or operating them which can accurately differentiate between blowing and drawing (sucking) through the mouthpiece and adjust the control of the vaporizer accordingly.

Classifications:

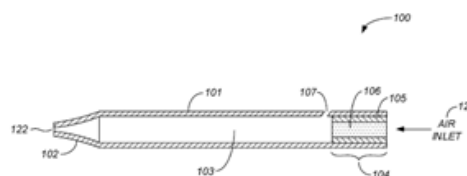
International (IPC 8-9): A24D1/14 A24F47/00 G01L9/00 G01L9/12 H05B1/02 (Advanced/Invention)

International (IPC 1-7): A24F47/00

CPC: H05B1/0244 G01L9/12 H05B1/0227 G01L9/0072 A24D1/14 A24F47/008

US: 1/1 131/328

PatBase - US2017231281_AA



Family:

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Probable Assignee: JUUL LABS INC

Assignee(s): (std): JUUL LABS INC ; PAX LABS INC

Assignee(s): MUFG UNION BANK NA ; MORENSTEIN CRONAN LLC ; CORTLAND CAPITAL MARKET SERVICES LLC ; JUUL LABS

Inventor(s): (std): CHRISTENSEN STEVEN ; HATTON NICHOLAS JAY ; STEVEN CHRISTENSEN ; NICHOLAS JAY HATTON ; HATTON NICHOLAS

Agent(s): JORGE GARAY PEREZ; THUM BERNHARD; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; MOUTON NICHOLAS P

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 68507142 (US2018042306A)

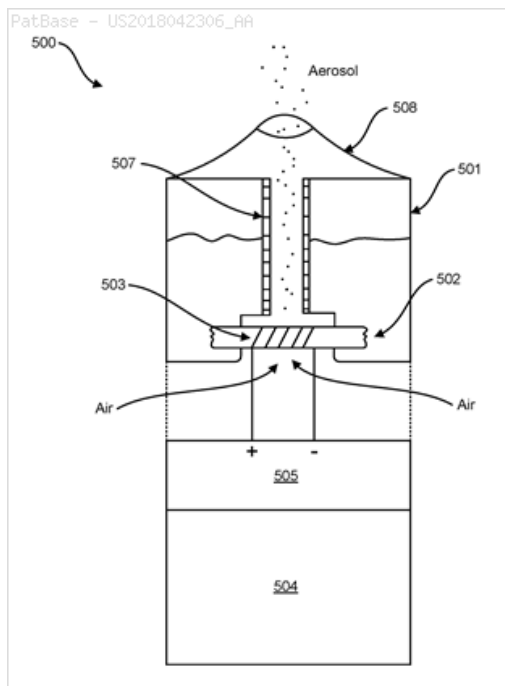
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Title: ANEMOMETRIC-ASSISTED CONTROL OF A VAPORIZER

Abstract: Vaporizer devices and methods for detecting inhalation through a vaporizer using a heating element are provided. A resistive heater of a vaporizer may function as both a heater and as an anemometer to detect inhalation. Alternatively or additionally, a separate resistive heater may be included in an air path through the vaporizer to detect a user inhaling through the vaporizer. A heating control mechanism utilizes the already existing heating element in an anemometric correlation to when the vaporizer is idle and when it is being used (where being used implies the user is taking a puff/inhalation on the vaporizer). Using this information, a controller of the vaporizer accordingly controls heating to the vaporizer as required.

Classifications:

International (IPC 8-9): A24F A24F47/00 A61M11/04 A61M15/06 A61M16/00 G05D23/19 H05B1/02 (Advanced/Invention); A61M16/00 (Advanced/Non-invention)
CPC: H05B1/0297 A61M15/06 A61M2016/0021 A61M2205/13 A61M2205/16 A61M2205/17 A61M2205/332 A61M2205/3331 A61M2205/3368 A61M2205/3653 A61M2205/70 A61M2205/702 A61M2205/8206 A24F47/008 A61M11/042
US: 1/1 131/328



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US2018116292 AA	20180503	US20170851509	20171221
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Priority:

US20160371463P 20160805 US20170669768 20170804 WO2017US45616 20170804
US20170851509 20171221

Probable Assignee: JUUL LABS INC

Assignee(s): (std): JUUL LABS INC

Assignee(s): MUG UNION BANK NA ; ATKINS ARIEL ; BOWEN ADAM ; CORTLAND CAPITAL MARKET SERVICES LLC ; GOULD ALEXANDER J

Inventor(s): (std): ATKINS ARIEL ; BOWEN ADAM ; GOULD ALEXANDER J

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; THUM BERNHARD; WEINLICK ERIN P ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 76791468 (US2019364957A)

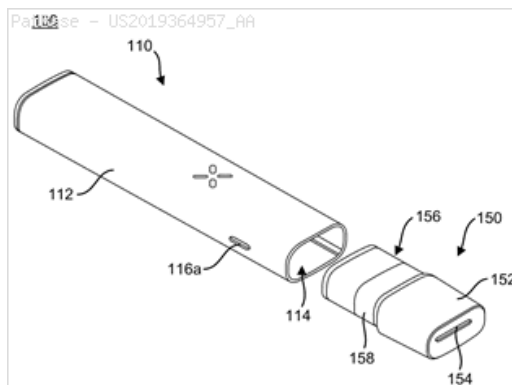
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Title: VAPORIZER CARTRIDGE

Abstract: Features relating to a cartridge for use with a vaporizer body are provided. The cartridge mates with the vaporizer body in a cartridge receptacle. The cartridge may include a cartridge body defining a reservoir configured to contain vaporizable material; a mouthpiece coupled to a proximal end region of the cartridge body; at least one proximal absorbent pad wedged within an internal volume of the mouthpiece; a mouthpiece seal with sealing ribs; a cannula defining a vaporization chamber extending through the cartridge body; a resistive heating element; a porous wick configured to draw the vaporizable material in the reservoir towards the vaporization chamber; an internal sealing gasket positioned in a distal end region of the cartridge body; a lower support structure positioned in the distal end region of the cartridge body; and at least one distal absorbent pad configured to wedge within a recess located in the lower support structure.

Classifications:

International (IPC 8-9): A24D1/14 A24F47/00 A24F7/00 A61M11/04 A61M15/00 G01N35/00 G08B6/00 H01R13/52 H02J7/00 H05B1/02 H05B3/00 H05K1/14 H05K1/18 (Advanced/Invention); G01K1/00 (Advanced/Non-invention)
CPC: A24D1/14 A24F7/00 A24F47/008 G01N35/00732 F17C9/02 A61M11/042 A61M15/0028 H05K1/147 H05K1/189 H01R13/521 G08B6/00 F16J15/02 H05K2201/10189 H05K2201/10318 H05K2201/10106 H05K2201/10121 H05K2201/10151 G01P15/00 H05B3/0019 H05B1/0244 H05B3/0014



Family:

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WO19232086 A1	20191205	WO2019US34447	20190529

Priority:

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US20190835988P 20190418		

Probable Assignee: PAX LABS INC

Assignee(s): JUUL LABS INC ; PAX LABS INC

Inventor(s): FU JOSHUA ; LOENTAL CHRISTOPHER ; MARKOVIC MARKO ; WEISS ALEXANDER ; RINGROSE ALEXANDER ; CARLBERG DAVID ; NARIYOSHI ROBYN ; SPRATT DEVIN ; HATTON NICHOLAS J ; CHANG YEN JEN ; LI CHEN YU ; TSENG BARRY ; WANG PRINCE ; GERMANN THOMAS ; SCHAEFER ANDREAS

Agent(s): WEINLICK ERIN P ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 59636471 (US2015208729A)

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Title: VAPORIZATION DEVICE SYSTEMS AND METHODS

Abstract: Provided herein are systems and methods to generate an inhalable vapor in an electronic vaporization device. The vaporization device may generate a vapor with one or more defined characteristics. In some cases, the vapor may have a predetermined aerosol number density and/or a predetermined average aerosol diameter. The vaporization device may generate a vapor from a vaporizable material. In some cases, the vaporizable material may be a liquid material housed in a cartridge. The vaporization device may comprise a rechargeable power storage device.

Classifications:

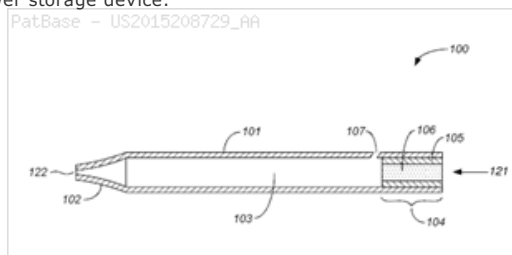
International (IPC 8-9): A24B A24B15/16 A24F A24F1/22 A24F1/28 A24F47/00 A24F7/00 A61K31/465 A61K9/12 A61M A61M11/00 A61M11/04 A61M11/06 A61M15/00 A61M15/06 B65B3/00 B65B3/04 B65B3/14 B65B3/18 B65B7/16 B65D25/54 F22B1/28 H01R H01R13/62 H01R31/06 H02J H02J7/00 H03M1/12 H05B H05B1/02 H05B3/02 H05B3/03 H05B3/04 H05B3/06 H05B3/44 (Advanced/Invention); A61M16/00 H05B3/44 (Advanced/Non-invention); A24F (Subclass/Invention)

International (IPC 1-7): A24B15/16 A24F1/28 A24F47/00 A61K31/465 A61K9/12 A61M11/06 A61M15/06 B65B3/04 B65B7/16 H03M1/12

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US: 1/1 131/329 141/2 392/386 392/387 D27/162 D27/167

Locarno class: 27/02



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Priority:

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AU20190246867	20191011				

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Inventor(s): ATKINS ARIEL ; MONSEES JAMES ; JOSHUA MORENSTEIN ; CHRISTOPHER NICHOLAS HIBMACRONAN ; AARON KELLER ; STEVEN CHRISTIANSEN
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Agent(s): SPRUSON AND FERGUSON; GOWLING WLG CANADA LLP; SMART AND BIGGAR; JORGE GARAY PEREZ; EISENFUEHR SPEISER PATENTANWALTE RECHTSANWALTE PARTGMBB; BRANSCOMBE ADAM DOUGLAS; THUM BERNHARD; SPRUSON AND FERGUSON HONG KONG LTD; ECCLES AND LEE; REINHOLD COHN AND PARTNERS; TANAKA MITSUO; YAMADA TAKUJI; MEHMET NAZIM AYDIN DERIS; SHAY GLENN LLP; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; VAN LOY MICHAEL D; HAVRANEK KRISTIN; JENKINS KENNETH ET AL; MOUTON NICHOLAS P ET AL; MOUTON NICHOLAS P

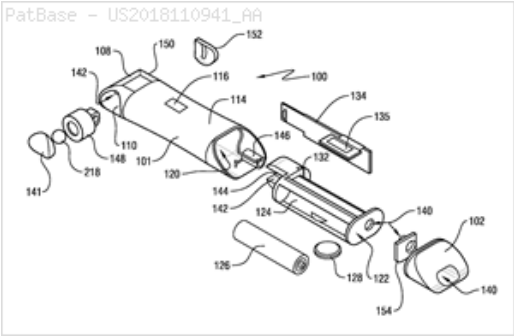
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5) Family number: 69433493 (US2018110941A) © PatBase

Title: PEARL PRECISION MEDICAL DOSING VAPORIZER FULLY INTERCHANGEABLE

Abstract: A medicine dosing device for vaporizing a dose of encapsulated liquid medicine inhaling includes a housing with vapor passage between an intake and a mouthpiece. A tank assembly receives the capsule with a closure member pressing the capsule against a needle and spring assembly to puncture the capsule with a hollow needle and press the liquid from the capsule into a tank chamber where is it wicked into the vapor passageway for vaporization. A heater coil between the mouthpiece and the vaporizing wick heats the vaporized medicine before inhalation by the user. A controller having a processor, power management, temperature control, communications and security subsystems enable the medicine dosing device to be enable for use, controlled and monitored remotely with a mobile device.

Classifications:
International (IPC 8-9): A61M11/00 A61M15/00
A61M15/06 (Advanced/Invention)
CPC: A61M15/004 A61M2205/3584 A61M2205/8206 A61M2205/8237
A61M2205/50 A61M2205/3368 A61M2205/276 A61M2205/3358
A61M2205/609 A61M2205/6009 A61M11/042 A61M15/0021
A61M15/003 A61M15/0036 A61M15/0066 A61M2205/3561
US: 1/1 128/200.14



Family:

Publication number	Publication date	Application number	Application date
US2018110941 AA	20180426	US20170476932	20170331
WO18183981 A1	20181004	WO2018US25599	20180331

Priority:

US20160411509P 20161021 US20170476932 20170331

Probable Assignee: PEARL VAPE LLC

Assignee(s): (std): KASHA JOHN MICHAEL ; PEARL VAPE LLC ; SMITH BRIAN

Inventor(s): (std): SMITH BRIAN ; KASHA JOHN MICHAEL

Agent(s): WOOD GREGORY

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW