

Search history

Search 1: FT=(inhal* NEAR (device OR apparatus)) and PD<20140070 and IC=(A61M16*) (Results 2760)

Search 2: 1 AND (FT = (drug OR pharm*) NEAR (deliver* OR dispense#)) (Results 560)

Search 3: 2 AND (FT = aerosoliz*) (Results 304)

Search 4: 3 AND (FT = vibrat*) (Results 139)

Search 5: 4 AND (FT = spacer) (Results 36)

Title: INHALER

Abstract: Source: US2008202514A A dry powder inhaler has a **vibrator** coupled to a blister filled with a dry powder drug substance. One or more of drug ejection apertures in the blister are substantially opposite the **vibrator**. One or more air intake apertures in the blister are not opposite the **vibrator**. Upon **vibration** of the **vibrator**, the drug substance is deaggregated, **aerosolized**, and ejected from the drug ejection apertures for inhalation by a patient.

Classifications:

International (IPC 8-9): A61M11/00 A61M13/00 A61M15/00 A61M16/00 A61M16/10 B06B1/06 B65D83/06 (Advanced/Invention); A61M11/00 A61M13/00 A61M15/00 A61M16/00 (Core/Invention); A61M (Subclass/Invention)

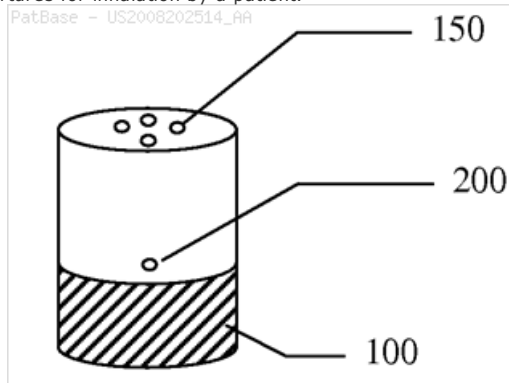
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CPC: A61M15/001 A61M15/0035 A61M15/0043 A61M15/0051 A61M15/0066 A61M15/0068 A61M15/0085 A61M11/005 A61M15/0028 A61M15/0045 A61M15/0065 A61M2016/0021 A61M2016/0039 A61M2202/064 A61M2205/8206 A61M2205/8268 A61M2205/3653

European: A61M11/00F A61M15/00C A61M15/00C2 A61M15/00D A61M15/00F K61M15/00A8C K61M15/00C1P1 K61M15/00C1S K61M15/00C2B6 K61M15/00D2 K61M15/00D4 K61M16/00A14B4 K61M16/00A8B2 K61M202/06B K61M205/82B K61M205/82F

US: 128/203.12 128/203.15 128/203.150P

PatBase - US2008202514_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2008221355 AA	20080904	AU20080221355	20080228
AU2008221355 BB	20120712	AU20080221355	20080228
BRPI0807697 A2	20140527	BR2008PI07697	20080228
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CN101674858 B	20130703	CN200880006600	20080228
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DE602008033583 D1	20140911	DE200860033583T	20080228
DK2114498 T3	20140901	DK20080743607T	20080228
EP2114498 A2	20091111	EP20080743607	20080228
EP2114498 A4	20100825	EP20080743607	20080228
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JP2010519973 T2	20100610	JP20090551858T	20080228
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MX2009009138 A1	20091019	MX20090009138	20080228
NZ579264 A	20110630	NZ20080579264	20080228
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RU2009135772 A	20110410	RU20090135772	20080228
RU2488411 C2	20130727	RU20090135772	20080228
SI2114498 T1	20141030	SI20080031271T	20080228
US2008202514 AA	20080828	US20070680084	20070228
US8196576 BB	20120612	US20070680084	20070228
WO08106616 A2	20080904	WO2008US55354	20080228
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ZA200905959 A	20101124	ZA20090005959	20090827

Priority:

EP20080743607 20080228 US20070680084 20070228 WO2008US55354 20080228

Probable Assignee: MICRODOSE THERAPEUTX INC

Assignee(s): (std): GUMASTE ANAND V ; KRIKSUNOV LEO B ; MAJKRODOUZ TERAP JUTIKS INK ; MICRODOSE TECHNOLOGIES INC ; MICRODOSE THERAPEUTX INC

Assignee(s): MICRODOSE THERAPEUTX INC MONMOUTH JUNCTION

Inventor(s): (std): GAMAST ANAND V ; GUMASTE ANAND V ; KRIKSUNOV LEO B

Inventor(s): KRIKSUNOV LEO B ITHACA ; LEO B KRIKSUNOV ; GUMASTE ANAND V WEST WINDSOR ; ANAND V GUMASTE

Agent(s): IP GATEWAY PATENT AND TRADEMARK ATTORNEYS; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; BITTNER BERNHARD; CUMMINGS ROSS MARTIN; DE ELZABURU ALBERTO; LUZZATTO AND LUZZATTO; DR SHLOMO COHEN AND CO; LEO B KRIKSUNOV; HAYES SOLOWAY PC; SOLOWAY NORMAN P ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: RESPIRATORY **DRUG DELIVERY** APPARATUS WHICH PROVIDES AUDIO INSTRUCTIONS

Abstract: Source: US2011226242A A respiratory **drug delivery** apparatus that includes a housing for holding a source of a medication, wherein the housing has a patient interface portion for delivering one or more doses of the medication to an airway of a patient, and a sound generator coupled to the housing. The sound generator is adapted to generate one or more audible instructions in response to an actuation signal. The actuation signal may be generated in response to a manual actuation performed by the patient, or in response to the detection of an event relating to operation of the apparatus.

Classifications:

International (IPC 8-9): A61M11/00 A61M11/08 A61M15/00

G06F3/16 (Advanced/Invention);

A61M16/00 (Advanced/Non-invention);

A61M15/00 (Core/Invention)

CPC: A61M15/009 A61M15/0013 A61M15/0023 A61M15/0086

A61M2016/0027 A61M2016/0039 A61M2202/064 A61M2205/183

A61M2205/43 A61M2205/44 A61M2205/581 A61M2205/8206

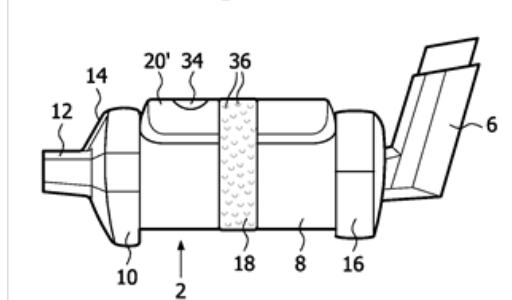
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K61M205/18B K61M205/43 K61M205/44 K61M205/58B K61M205/82B

US: 128/203.12 128/203.120P

PatBase - US2011226242_AA



Family:

Publication number	Publication date	Application number	Application date
AU2009286377 AA	20100304	AU20090286377	20090815
BRPI0912918 A2	20160705	BR2009PI12918	20090815
CN102159268 A	20110817	CN200980132986	20090815
CN102159268 B	20150617	CN200980132986	20090815
EP2318080 A2	20110511	EP20090786947	20090815
EP2318080 B1	20160810	EP20090786947	20090815
IN01905CN2011 A	20120203	IN2011CN01905	20110318
JP2012500702 T2	20120112	JP20110524486T	20090815
JP5746625 B2	20150708	JP20110524486T	20090815
US2011226242 AA	20110922	US20090060319	20090815
US9555202 BB	20170131	US20090060319	20090815
WO10023591 A2	20100304	WO2009IB53604	20090815
WO10023591 A3	20100422	WO2009IB53604	20090815

Priority:

US20080091546P 20080825

US20090060319 20090815

WO2009IB53604 20090815

Probable Assignee: PHILIPS ELECTRONICS N V KONINKLL

Assignee(s): (std): KONINKL PHILIPS ELECTRONICS NV ; KONINKL PHILIPS NV ; KOSHINSKIE ROBERT ; VON HOLLEN DIRK ; ROYAL DUTCH PHILIPS ELECTRONICS LTD ; PHILIPS KONINKLL NV

Assignee(s): PHILIPS ELECTRONICS N V KONINKLL ; PHILIPS ELECTRONICS KONINKLL NV ; KONINKLIJKE PHILIPS ELECTRONICS N V

Inventor(s): (std): DIRK VON HOLLEN ; HOLLEN DIRK VON ; KOSHINSKE ROBERT ; KOSHINSKIE ROBERT ; ROBERT KOSHINSKIE ; VON HOLLEN DIRK

Agent(s): FB RICE; FB RICE PTY LTD; VAN VELZEN MAAIKE MATHILDE; MICHAEL W; DAMEN DANIEL M

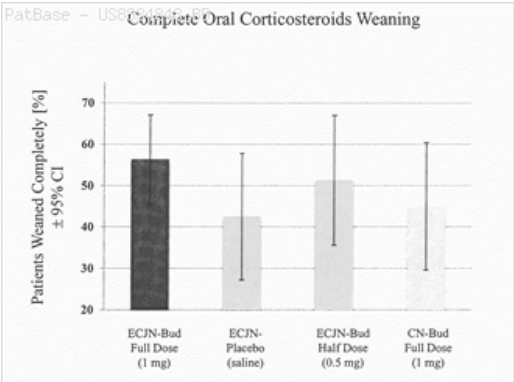
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Title: METHOD FOR TREATMENT OF SEVERE AND UNCONTROLLABLE ASTHMA

Abstract: Source: US2010196483A A method for treatment of severe and uncontrollable asthma by providing means for delivery of high doses of a suitable inhalable corticosteroid directly to the small airways of the lower lungs with substantial decrease in need for simultaneous administration of oral corticosteroids and with a significant reduction in undesirable secondary side effects in an oropharyngeal area. The method utilizes devices allowing individualization of treatment parameters in asthmatic patients having compromised breathing pattern due to severe and uncontrollable asthma.

Classifications:

International (IPC 8-9): A01N25/02 A61K A61K31/56 A61K31/569 A61K31/573 A61K31/58 A61K9/00 A61K9/12 A61K9/14 A61K9/72 A61M15/00 A61P11/06 C07J3/00 C07J5/00 (Advanced/Invention); A01N45/00 A61K31/56 A61K9/14 A61M11/06 A61M16/00 B05B17/06 (Advanced/Non-invention); A61K31/57 A61K9/00 A61K9/12 A61K9/14 (Core/Invention); A61K (Subclass/Invention)
CPC: A61K31/56 A61K31/58 Y10S514/862 Y10S514/958 A61M11/06 A61M2016/0024 A61M2016/0027 A61M2205/502 A61M11/005 A61K9/0078 A61K31/573 A61K9/0053 A61K9/12
European: A61K31/56 A61K31/573 A61K31/58 A61K9/00M20B5
US: 128/200.13 128/200.16 128/200.2 128/200.21 128/203.12 128/203.13 128/203.15 424/400 424/43 424/45 424/489 514/127 514/169 514/170 514/180 514/862 514/958 552/572 552/572S 552/574 552/574S 552/576 552/576S 552/577 552/577S 552/610 552/610S 600/538



Family:

Publication number	Publication date	Application number	Application date
AU2010210183 AA	20100812	AU20100210183	20100203
AU2010210183 BB	20140911	AU20100210183	20100203
BRP11008227 A2	20160308	BR2010PI08227	20100203
CA2751443 AA	20110803	CA20102751443	20100203
CN102307567 A	20120104	CN201080006616	20100203
CN104306360 A	20150128	CN201410371150	20100203
EP2393477 A1	20111214	EP20100705986	20100203
EP2393477 B1	20171227	EP20100705986	20100203
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IN05408DN2011 A	20121005	IN2011DN05408	20110713
JP2012516873 T2	20120726	JP20110548677T	20100203
JP5886630 B2	20160316	JP20110548677T	20100203
KR20110122671 A	20111110	KR20117017903	20100203
MX2011008200 A1	20111021	MX20110008200	20100203
NZ594210 A	20130927	NZ20100594210	20100203
RU2011135824 A	20130310	RU20110135824	20100203
RU2519344 C2	20140610	RU20110135824	20100203
SG173538 A1	20110929	SG20110056207	20100203
UA102587 C2	20130725	UA20110100621	20100203
US2010196483 AA	20100805	US20090365754	20090204
US2012040945 AA	20120216	US20100147761	20100203
US2013037024 AA	20130214	US20120605451	20120906
US8668901 BB	20140311	US20100147761	20100203
US8834848 BB	20140916	US20120605451	20120906
WO10089330 A1	20100812	WO2010EP51321	20100203

Priority:

CN201080006616 20100203 US20090365754 20090204 WO2010EP51321 20100203
US20100147761 20100203 US20120605451 20120906 US20110147761 20111019

Probable Assignee: VECTURA GMBH

Assignee(s): (std): ACTIVAERO GMBH ; ACTIVAERO GMBH RES AND AMP DEV ; ACTIVAERO GMBH RES AND DEV ; ACTIVAERO GMBH RES AND DEVELOPMENT ; MUELLINGER BERNHARD ; HOFMANN THOMAS ; SCHEUCH GERHARD ; KRONEBERG PHILIPP ; MUELLINGER BERNARD ; VECTURA GMBH

Assignee(s): ACTIVAERO GMBH RESEARCH AND DEVELOPMENT ; ACTIVAERO GMBH RESEARCH AND DEVELOPMENT

Inventor(s): (std): BERNHARD MUELLINGER ; BERNHARD MULLINGER ; GERHARD SCHEUCH ; HOFMANN THOMAS ; KHOFMANN TOMAS ; KRONEBERG FILIPP ; KRONEBERG PHILIPP ; MJULLINGER BERNKHARD ; MUELLER BERNHARD ; MUELLINGER BERNARD ; MUELLINGER BERNHARD ; MULLINGER BERNHARD ; PHILIPP KRONEBERG ; SCHEUCH GERHARD ; SHOJKH GERKHARD ; THOMAS HOFMANN

Inventor(s): BERNHARD MUELLER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MARKS AND CLERK; FOGLER RUBINOFF LLP; VOSSIUS AND PARTNER; SUMMERSELL RICHARD JOHN; REINHOLD COHN AND PARTNERS; PETERS VERNY LLP; VON UEXKUELL ALEXA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PE PG PH PL PT RO RS RU 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

Title: NEBULIZER FOR INFANTS AND RESPIRATORY COMPROMISED PATIENTS

Abstract: Source: US2011000481A A pediatric nebulizer is described.

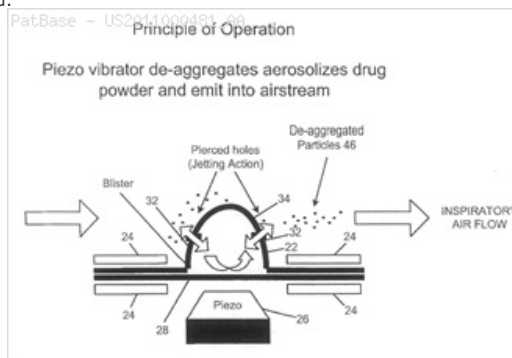
Classifications:

International (IPC 8-9): A61M A61M11/00 A61M11/02 A61M11/06 A61M15/00 A61M15/02 A61M15/08 A61M16/00 A61M16/06 A61M16/20 B05B17/06 (Advanced/Invention); A61M16/00 A61M16/06 A61M16/20 (Advanced/Non-invention); A61M (Subclass/Invention)

CPC: A61M15/0065 B05B17/0607 A61M16/024 A61M16/00 A61M11/005 A61M15/001 A61M15/0028 A61M15/0085 A61M16/06 A61M16/208 A61M2016/0021 A61M2016/0027 A61M2202/064 A61M2205/50 A61M2205/502 A61M2205/581 A61M2205/582 A61M2205/583 A61M2205/59 A61M2205/8206

European: A61M11/00F A61M15/00C A61M15/00F K61M16/00 K61M16/00A10 K61M16/00A8B2 K61M16/06 K61M16/20B K61M205/50 K61M205/50A K61M205/58B K61M205/58C K61M205/58D K61M205/59 K61M205/82B

US: 128/200.23 128/200.230P 128/203.15



Family:

Publication number	Publication date	Application number	Application date
AR095547 AA	20151028	AR2014P101165	20140314
AU2010266231 AA	20110106	AU20100266231	20100701
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EP2950860 A1	20151209	EP20140773911	20140303
EP2950860 A4	20161116	EP20140773911	20140303
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US2013255678 AA	20131003	US20130830498	20130314
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Priority:

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Probable Assignee: MICRODOSE THERAPEUTX INC

Assignee(s): (std): CHAN PHILIP ; FLEMING SCOTT ; GUMASTE ANAND ; MICRODOSE THERAPEUTX INC

Inventor(s): (std): ANAND GUMASTE ; CHAN PHIIP ; CHAN PHILIP ; CHAN PHILLIP ; FLEMING SCOTT ; GUMASTE ANAND ; GUMASTE ANAND V ; PHILIP CHAN ; SCOTT FLEMING

Inventor(s): GUMASTE ANAND

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; SIM AND MCBURNEY; AIRD AND BERLIS IP PARTNERSHIP LTD; AIRD AND MCBURNEY LP; HANNKE CHRISTIAN; COTTAM DAVID WILLIAM; D YOUNG AND CO LLP; MINORI PATENT PROFESSION CORP; SPRUSON AND FERGUSON ASIA PTE LTD; HAYES SOLOWAY PC; SOLOWAY NORMAN 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 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 KM KN KP KR 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

Title: **DRUG DELIVERY** DEVICE

Abstract: Source: US2012247466A The present invention discloses a device useful for facilitating **delivery** of **drugs** or medicaments to the respiratory system of a user. The device comprising a mechanism for interrupting the airflow during inhalation or exhalation performed by the user through the device by generating pressure pulses within the respiratory system of the user, such that the **delivery** of the **drugs** to the user is facilitated; the pressure pulses are selected from the group consisting of: inspiratory Negative Pressure (NP) pulses, inspiratory Positive Pressure (PP) pulses, expiratory Negative Pressure (NP) pulses, expiratory Positive Pressure (PP) pulses into the respiratory system, and any combination thereof.

Classifications:

International (IPC 8-9): A61M15/00 A61M16/00

A61M16/10 (Advanced/Invention)

CPC: A61M15/0003 A61M15/0016 A61M15/002 A61M15/0035

A61M15/0065 A61M15/0086 A61M15/009 A61M2016/0021

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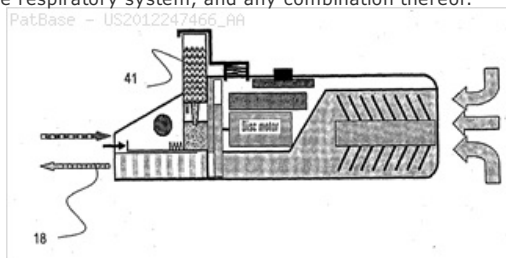
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K61M205/10R K61M230/43C K61M230/43D

US: 128/203.12 128/203.15 128/203.26



Family:

Publication number	Publication date	Application number	Application date
CN102844068 A	20121226	CN201080062637	20101202
CN102844068 B	20161026	CN201080062637	20101202
EP2506909 A1	20121010	EP20100834307	20101202
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US2012247466 AA	20121004	US20100512766	20101202
WO11067763 A1	20110609	WO20101L01017	20101202

Priority:

US20090265775P 20091202

US20100512766 20101202

WO20101L01017 20101202

Probable Assignee: RESPINOVA LTD

Assignee(s): (std): AVNI YUVAL ; RESPINOVA LTD

Inventor(s): (std): AVNI YUVAL

Agent(s): CASPARY KARSTEN; DR EYAL BRESSLER LTD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PE PG PH PL PT RO RS RU 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

Title: RESPIRATORY **DRUG DELIVERY** APPARATUS INCLUDING A FEEDBACK AND COMPLIANCE DEVICE

Abstract: Source: US2013008436A A respiratory **drug delivery** apparatus (2) includes a medication storage and delivery device (8) having an outlet (30) and a feedback and compliance device (32) coupled thereto. The feedback and compliance device has an opening, and the outlet of the medication storage and delivery device is received through the opening. The feedback and compliance device includes: (i) one or more sensors (46, 52, 54, 56), each of the one or more sensors being structured to sense a parameter relating to use of the respiratory **drug delivery** apparatus without modifying or interfering with a flow of medication introduced by actuation of the medication storage and delivery device, (ii) one or more feedback devices (48, 50, 62), and (iii) a processing unit (42) programmed to cause the one or more feedback devices to provide feedback information to a patient (4) regarding use of the respiratory **drug delivery** apparatus based on an output of at least one of the one or more sensors.

Classifications:

International (IPC 8-9): A61M11/00 A61M15/00

G09B7/00 (Advanced/Invention);

A61M11/00 A61M11/08 A61M16/00 (Advanced/Non-invention)

CPC: A61M11/006 A61M11/007 A61M11/08 A61M15/0086

A61M15/0005 A61M15/0016 A61M15/0018 A61M15/009

A61M2016/0021 A61M2016/0039 A61M2205/13 A61M2205/14

A61M2205/276 A61M2205/3306 A61M2205/332 A61M2205/3368

A61M2205/3375 A61M2205/43 A61M2205/44 A61M2205/50

A61M2205/502 A61M2205/52 A61M2205/581 A61M2205/582

A61M2205/583 A61M2205/8206

European: A61M15/00K A61M15/00P K61M15/00A11C

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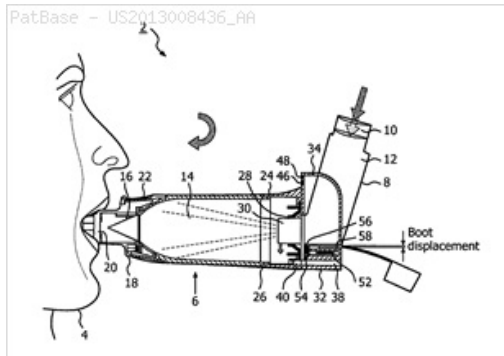
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K61M205/50A K61M205/52 K61M205/58B K61M205/58C

K61M205/58D K61M205/82B

US: 1/1 128/200.14



Family:

Publication number	Publication date	Application number	Application date
CN102695535 A	20120926	CN201080060710	20101207
CN102695535 B	20160330	CN201080060710	20101207
EP2521583 A1	20121114	EP20100807384	20101207
IN05479CN2012 A	20131101	IN2012CN05479	20120622
JP2013516265 T2	20130513	JP20120547559T	20101207
JP5873805 B2	20160301	JP20120547559T	20101207
US2013008436 AA	20130110	US20100520970	20101207
US9352107 BB	20160531	US20100520970	20101207
WO11083377 A1	20110714	WO20101B55642	20101207

Priority:

US20100293020P 20100107

US20100520970 20101207

WO20101B55642 20101207

Probable Assignee: PHILIPS ELECTRONICS N V KONINKLL

Assignee(s): (std): DENYER JONATHAN STANLEY HAROLD ; KONINKL PHILIPS ELECTRONICS NV ; KONINKL PHILIPS NV ; VON HOLLEN DIRK ERNEST ; ROYAL DUTCH PHILIPS ELECTRONICS LTD

Assignee(s): PHILIPS KONINKLL NV ; PHILIPS ELECTRONICS KONINKLL NV ; PHILIPS ELECTRONICS N V KONINKLL ; KONINKLIJKE PHILIPS ELECTRONICS N V

Inventor(s): (std): DENYER JONATHAN STANLEY HAROLD ; ERNEST VON HOLLEN DIRK ; HAROLD DENYER JONATHAN STANLEY ; VON HOLLEN DIRK ERNEST

Agent(s): VAN VELZEN MAAIKE MATHILDE; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; MICHAEL W; DAMEN DANIEL M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PE PG PH PL PT RO RS RU 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

Title: ACTIVATION TRIGGER FOR A PERSONAL VAPORIZING INHALER

Abstract: Source: US2011277756A A personal vapor inhaling unit is disclosed. An electronic flameless vapor inhaler unit that may simulate a cigarette has a cavity that receives a cartridge in the distal end of the inhaler unit. The cartridge brings a substance to be vaporized in contact with a wick. When the unit is activated, and the user provides suction, the substance to be vaporized is drawn out of the cartridge, through the wick, and is atomized by the wick into a cavity containing a heating element. The heating element vaporizes the atomized substance. The vapors then continue to be pulled by the user through a mouthpiece and mouthpiece cover where they may be inhaled.

Classifications:

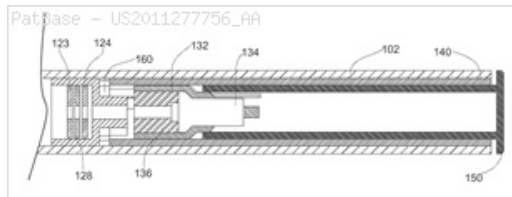
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CPC: A24F47/008 A61M11/041 A61M2205/3653 A61M2205/50 A61M2205/8206 A61M11/042 A24F47/002 A61M11/04 A61M15/06 Y10T29/49117 A61M2205/80 A61M2205/52 A61M2205/505

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European: A24F47/00B2E A61M11/04H A61M15/06 K61M11/04H2 K61M15/00A20C K61M15/00C1P1 K61M16/00A8B K61M205/02A K61M205/02K K61M205/13 K61M205/35R1 K61M205/35R2 K61M205/35T1 K61M205/35T2 K61M205/36J K61M205/36U K61M205/50 K61M205/50A K61M205/50A1 K61M205/52 K61M205/59 K61M205/80 K61M205/82B K61M205/82D K61M209/08B2 K61M230/00A K61M230/65

US: 1/1 128/200.11 128/200.12 128/202.21 128/202.210P 128/203.12 128/203.120P 128/203.120S 128/203.16 128/203.23 128/203.26 128/203.260P 128/204.13 131/273 131/328 131/329 206/459.1 206/459.100P 261/119.1 261/142 261/152 261/94 29/428 29/825 320/114 392/395



Family:

Publication number	Publication date	Application number	Application date
TW201143824 A	20111216	TW20110116958	20110513
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WO11146365 A3	20120315	WO2011US36600	20110516
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WO11146369 A3	20120405	WO2011US36605	20110516
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WO11146372 A3	20120329	WO2011US36609	20110516
WO11146375 A2	20111124	WO2011US36614	20110516
WO11146375 A3	20120329	WO2011US36614	20110516

Priority:

US20100780871	20100515	US20100780872	20100515	US20100780874	20100515
US20100780876	20100515	US20100780875	20100515	US20100780873	20100515
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US20140279174	20140515	US20140284994	20140522	US20140285605	20140522
US20150701046	20150430	US20140987005P	20140501		

Probable Assignee: RAI STRATEGIC HOLDINGS INC

Assignee(s): (std): MINSKOFF NOAH MARK ; TERRY NATHAN ANDREW ; NATE TERRY AND MICHAEL EDWARD BREEDE ; MINUSA HOLDINGS LLC ; RAI STRATEGIC HOLDINGS INC ; REYNOLDS TOBACCO CO R

Assignee(s): RJ REYNOLDS TOBACCO CO ; R J REYNOLDS TOBACCO CO ; BREEDE MICHAEL EDWARD ; DUFFIN LAWRENCE ; GENERAL ELECTRIC CO ; MINSKOFF NOAH M

Inventor(s): (std): MINSKOFF NOAH MARK ; TERRY NATHAN ANDREW

Agent(s): NEUDECK LAW FIRM LLC; BRINKS GILSON AND LIONE; NEUDECK ALEXANDER J

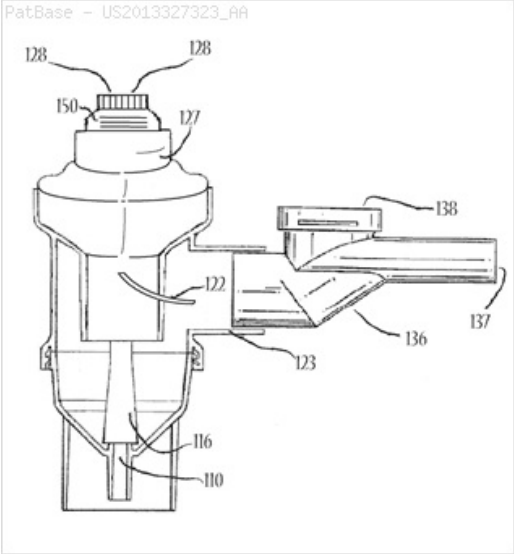
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Title: NEBULIZER HAVING DIFFERENT NEGATIVE PRESSURE THRESHOLD SETTINGS

Abstract: Source: US2013327323A Novel nebulizers and methods are provided for a nebulizer including a dialable negative pressure threshold valve that actuates in response to different negative pressures corresponding to different negative pressure threshold settings of actuation of the valve to influence inhalation effort, aerosol entrainment, and aerosol delivery.

Classifications:

International (ipc 8-9): A24F47/00 A61M11/02 A61M11/04 A61M11/06 A61M15/00 A61M16/00 A61M16/10 A61M16/14 A61M16/20 A62B7/00 B05B1/26 (Advanced/Invention); A61M11/00 A61M15/02 A61M16/00 (Advanced/Non-invention)
CPC: A61M11/02 A61M11/041 A61M15/0028 A61M2016/0039 A61M2202/064 A61M2205/3653 A61M2205/52 A61M2205/8206 A61M2205/8268 A61M11/042 A61M11/047 A61M15/008 A61M16/204 A61M11/007 A61M15/0066 A61M15/025 A61M11/06 A61M15/002 A61M15/0085 A61M15/0091 A61M15/02 A61M16/209 A61M15/0095 A61M2205/13 A61M2205/6018 A61M2205/6054 A61M2205/6072 A61M15/0093 A61M16/0093 A61M16/101 A61M16/1055 A61M16/1065 A24F47/008 A61M2205/8262 A61M2205/8237 A61M2205/505 A61M2202/30 A61M2016/0033 A61M2016/0027 A61M2210/0618 A61M2210/065 A61M2210/1028 A61M2210/1032 A61M2210/1039 A61M2210/1035 A61M11/005 A61M15/0008 A61M15/06 A61M16/0866 A61M16/105 A61M16/14
European: A61M11/04H A61M15/00C A61M15/00F K61M11/04H2 K61M11/04H6 K61M15/00A13 K61M15/00D4E K61M16/00A14B4 K61M16/20A2P2 K61M202/06B K61M205/36J K61M205/52 K61M205/82B K61M205/82F
US: 128/200.14 128/200.18



Family:

Publication number	Publication date	Application number	Application date
CA2808836 AA	20130219	CA20112808836	20110817
EP2608829 A2	20130703	EP20110820272	20110817
EP2608829 A4	20151118	EP20110820272	20110817
US2013327323 AA	20131212	US20130969847	20130819
US2017368273 AA	20171228	US20170672021	20170808
US9757528 BB	20170912	US20130969847	20130819
WO12026963 A2	20120301	WO2011US01438	20110817
WO12026963 A3	20120524	WO2011US01438	20110817

Priority:

US20100806874 20100823 US20130969847 20130819 WO2011US01438 20110817
US20170672021 20170808

Probable Assignee: RUBIN DARREN

Assignee(s): (std): RUBIN DARREN

Inventor(s): (std): RUBIN DARREN

Agent(s): FINLAYSON AND SINGLEHURST; CHAILLOT GENEVIEVE; COLITZ MICHAEL J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PE PG PH PL PT QA RO RS RU 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

Title: AEROSOL PIRFENIDONE AND PYRIDONE ANALOG COMPOUNDS AND USES THEREOF

Abstract: Source: US2012192861A Disclosed herein are formulations of pirfenidone or pyridone analog compounds for **aerosolization** and use of such formulations for aerosol administration of pirfenidone or pyridone analog compounds for the prevention or treatment of various fibrotic and inflammatory diseases, including disease associated with the lung, heart, kidney, liver, eye and central nervous system. In some embodiments, pirfenidone or pyridone analog compound formulations and delivery options described herein allow for efficacious local delivery of pirfenidone or pyridone analog compound. Compositions include all formulations, kits, and device combinations described herein. Methods include inhalation procedures, indications and manufacturing processes for production and use of the compositions described.

Classifications:

International (IPC 8-9): A01G25/00 A01N43/40 A24F25/00
A61K31/44 A61K31/4412 A61K31/4418 A61K47/02 A61K47/04
A61K47/10 A61K47/12 A61K47/18 A61K47/22 A61K47/24
A61K47/34 A61K9/00 A61K9/08 A61K9/12 A61K9/72 A61M11/00
A61M11/02 A61M15/00 A61M16/14 A61P11/00 A61P35/00
B01D21/00 B01D24/04 B05B1/04 B05B1/14 B05B1/20 B05B15/00
B05B15/06 C02F1/28 E02B8/06 E03C1/12 E03F1/00 E03F5/04
F17D1/08 (Advanced/Invention);
C02F103/42 E04H4/14 (Advanced/Non-invention);
A61K (Subclass/Invention)

CPC: A61K9/0078 A61K31/4418 A61M15/009 A61M2202/064
A61K9/0073 A61K31/4412 C02F1/283 B01D24/042 B05B1/207
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B05B1/14 B05B1/20 B05B15/008 B05B15/069 E03F5/0404 E04H4/14
F17D1/08 Y02W10/37 B05B15/40 B05B15/658

European: A61K31/4418 A61K9/00M20B5 K61M15/00P
K61M202/06B

US: 128/200.16 128/200.160P 128/200.21 128/200.210S 128/203.16
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PatBase - US2012192861_AA

Patent Application Publication Aug. 2, 2012 US 2012/0192861 A1

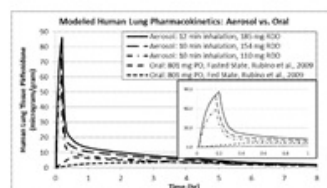


Figure 1. Modeled Nebulized Aerosol Administration to a Human.

Family:

Publication number	Publication date	Application number	Application date
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AU2013101795 AD	20130711	AU20130101795	20130105
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AU2016213708 AA	20160825	AU20160213708	20160809
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EP2670242 A4	20150225	EP20120742394	20120131
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EP2877164 A4	20160113	EP20130822166	20130724
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NZ625530 A	20160527	NZ20130625530	20130105
NZ705260 A	20170428	NZ20130705260	20130724
NZ719737 A	20171222	NZ20120719737	20120131
US2012192861 AA	20120802	US20120363311	20120131
US2013175368 AA	20130711	US20120726910	20121226
US2013310424 AA	20131121	US20130950110	20130724
US2017183858 AA	20170629	US20160279413	20160928
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WO12106382 A1	20120809	WO2012US23406	20120131
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WO14018668 A2	20140130	WO2013US51880	20130724
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Priority:

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Probable Assignee: GENOA PHARMACEUTICALS INC

Assignee(s): (std): GENOA PHARMACEUTICALS INC ; GREBERIS STAN ; STANLEY GREBERIS ; SURBER MARK WILLIAM

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Inventor(s): (std): GREBERIS STAN ; STANLEY GREBERIS ; SURBER MARK WILLIAM ; MARK WILLIAM SURBER

Inventor(s): GREBERIS STAN143 ELY HARMONY ROADFREEHOLD TOWNSHIPNJ07728US

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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 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 IS IT JP KE KG KM KN KP KR 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 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

Title: METHODS OF TREATMENT

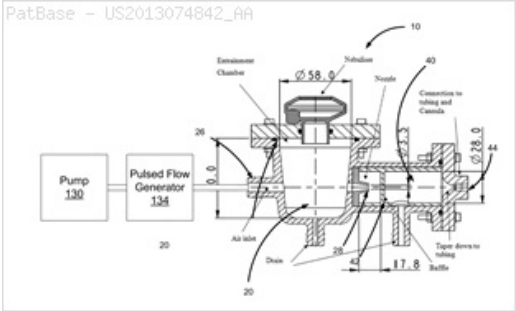
Abstract: Source: US2013074842A The present invention concerns methods, compositions and apparatus for administering active agents to the lungs of a subject.

Classifications:

International (IPC 8-9): A61F13/00 A61K31/198 A61K31/407 A61K31/421 A61K31/4965 A61K31/5377 A61K31/573 A61K31/575 A61K31/65 A61K31/7072 A61K31/7076 A61K31/7084 A61K33/10 A61K33/14 A61K38/00 A61K38/08 A61K38/48 A61K45/00 A61K45/06 A61K47/02 A61K47/04 A61K9/00 A61K9/12 A61K9/14 A61K9/72 A61M11/00 A61M11/02 A61M11/06 A61M15/00 A61M15/08 A61M16/00 A61M16/06 A61M16/10 A61M16/12 A61M16/14 A61M16/16 A61M16/20 A61P11/00 A61P11/02 A61P11/06 A61P11/08 A61P11/12 A61P29/00 A61P31/04 A61P31/10 A61P31/12 A61P31/14 A61P31/22 A61P43/00 C12N15/113 (Advanced/Invention); A61M16/06 (Advanced/Non-invention)

IPC: A61M16/0057 A61M16/06 A61M15/009 A61M11/02 A61M15/08 A61K9/0073 A61M11/002 A61K9/0075 A61K9/0078 A61M11/06 A61M15/0085 A61M16/0666 A61M16/0672 A61M16/14 A61M2202/0275 A61M2206/14 A61M2206/16 A61M11/005 A61M16/12 A61M11/003 A61M16/16 A61K9/14 A61K9/12 A61K45/06 C12N15/113 A61K31/4965 A61K38/482 C12Y304/21075 A61K31/65 A61K31/421 A61K31/407 A61M16/208 C12N2310/14 A61M2205/33 A61M2205/52 A61M15/0086 A61M15/025

US: 128/200.14 128/200.16 128/200.18 128/200.21 128/200.23 128/203.16 424/434 424/489



Family:

Publication number	Publication date	Application number	Application date
AU2012267938 AA	20121213	AU20120267938	20120607
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Priority:

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WO2013US38368	20130426	US20140293255	20140602	US20150593757	20150109

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