

Search history

Search TI=(A HINGED CAPSULE INHALER) (Results 1)

1:

Search [SP]: 1. a dry powder inhaler suitable for pulmonary or nasal delivery, the inhaler comprises a cover, an inhaler body, a mouthpiece and a capsule tray, the inhaler body having: opposing upper and lower walls spaced apart to form a chamber within the body which constitutes an inhaler body opening, one end of the inhaler body being open by means of which the capsule tray is engageable into the inhaler body opening, cutting means provided on the upper and lower walls, which cutting means extend into the inhaler body opening, an inhalation passage formed in the upper wall of the inhaler body, and a first hinge segment the mouthpiece having an inhalation passage and a second hinge segment which is complementary to the first hinge segment and which includes at least one bearing surface, the mouth piece being engageable with the inhaler body such that the first and second hinge segments engage with each other to form a hinge passage therebetween, the mouth piece and inhaler body having complementary locking means operable to secure the mouth piece to the body when they are engaged together characterized in that: the first hinge segment includes at least one bearing surface the second hinge segment is complementary to the first hinge segment and includes at least one bearing surface, the mouth piece being engageable with the inhaler body such that the first and second hinge segments engage with each other to form a hinge passage therebetween the cover includes a third hinge segment formed by an axle carried on the cover, the axle being sized to be engageable in the passage formed between the first and second hinge segments so as to be rotatable within said passage and thereby enable pivoting movement of the cover relative to the inhaler body and the mouthpiece the capsule tray is moveable in the opening through said open end between a first position in which the capsule tray is withdrawn from the opening so as to allow access to a capsule chamber formed therein for loading and unloading a capsule from the capsule chamber, and a second position in which the capsule chamber is aligned with the inhalation passage of the inhaler body to enable inhalation of the medicament contained in the capsule through the inhalation passage, the cutting means being positioned to engage the top and bottom of the capsule as the capsule tray is moved from its first position to its second position in order to cut openings in the top and bottom of the capsule, at least one of the inhaler body and the mouthpiece including stop means located within the opening which are engaged by the capsule tray as it is engaged into the opening to limit the travel of the tray inside inhaler body opening and the inhaler is assembled by seating the axle of the cover in the first hinge segment and then fitting the mouthpiece onto the inhaler body so that the second hinge segment engages over the axle and against the first hinge segment and locks in place, thereby forming a single, permanent, mechanically effective hinge. 2. a dry powder inhaler of claim 1, where the inhaler is constructed from four parts only, the body, the mouthpiece, the tray and the cover and where the mouthpiece and the body act as the locking element for the hinge joining the body, the mouthpiece and the cover, each of the body, mouthpiece, tray and cover being of unitary construction. 3. a dry powder inhaler of claim 1, where the inhaler has a single hinge, formed by the first, second and third hinge segments, which only constitute a fully operational and permanent hinge when they are assembled together and after the mouthpiece is locked into place into the body. 4. a dry powder inhaler of claim 1, wherein the tray is moveable inside the body and can be moved outside the body for capsule loading or emptying, while the hinged cover is closed. 5. a dry powder inhaler of claim 1, wherein the assembled inhaler consists of no more than three integral components: the first component being constituted by the mouthpiece and body locked together to form a single integral component, the second being constituted by the tray and the third being constituted by the cover. 6. a dry powder inhaler according to claim 1, wherein the complementary locking means provided on the mouth piece and the inhaler body comprises at least one locking pin provided on one of the mouth piece and inhaler body and at least one complementary recess provided on the other of the mouth piece and the inhaler body. (Results 0)

Search [SP]: a hinged capsule inhaler a dry powder inhaler (1) for pulmonary or nasal use, employing capsules (6) containing a dose of powder for inhalation, comprising four components: a capsule tray (2), a cover (4) and a mouthpiece (8) and an inhaler body (3). air is drawn by the patient via the mouthpiece (8) which is in communication with the capsule (6) and travels via air paths through the device (1) and through the capsule (6) thereby dispersing and entraining the dose of powder. the capsule (6) is cut by cutting means (18, 19) located on the body (3). the inhaler body (3), the mouthpiece (8) and the cover (4) are provided with hinge segments (20, 35, 42) which when assembled together and the mouthpiece (8) is locked into the body (3), form a single hinge (5) and which allows the cover (4) to freely pivot around the body (3) and the mouthpiece (8). (Results 306)

Search [SP]: [0047] so that the invention and its advantages may be more readily understood, there will now be described a preferred embodiment thereof, given by way of example, reference being made to the accompanying drawings, in which: [0048] fig. 1 shows a perspective view of an inhaler according to the invention in the storage position, with the cover closing the device [0049] fig. 2 shows a perspective view of the inhaler of fig. 1 with the inhaler tray in an open position making the device available for receiving a capsule [0050] fig. 3 shows a perspective view of the an inhaler according to fig. 1 with the inhaler tray loaded and closed, the cover opened and in a position ready for inhalation [0051] figs. 4a to 4b show respectively a side and longitudinal sectional views of the inhaler body component of fig. 1 [0052] fig. 5 shows a perspective view but partially cut away of the inhaler tray component of fig. 1 [0053] fig. 6 shows a perspective view but partially cut away of the inhaler mouthpiece component of fig. 1 [0054] fig. 7 shows a longitudinal sectional view of the inhaler cover component of fig. 1 [0055] fig. 8 shows an exploded perspective view of an inhaler according to fig. 1 [0056] fig. 9 shows a detailed sectional view of the hinge area of an inhaler according to fig. 1 [0057] fig. 10 shows a longitudinal sectional view of an inhaler according to fig. 1 with the inhaler tray loaded and closed, the cover opened and in a position ready for inhalation [0058] fig. 11 shows a detailed perspective sectional view of the mouthpiece air inlets area of an inhaler according to fig. 1 [0059] figs. 12a to 12f show the sequence of operational steps to load, open, inhale and unload the inhaler of fig. 1. (Results 10)

Search fn=(66501904 or 30740404 or 49808657 or 48302962 or 48302962 or 40901748 or 48302962 or 52369060 or 52369060 or 29612775 or 30740404 or 50915137 or 50915137 or 54184780) (Results 9)

1) Family number: 29612775 (US2003172928A)

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Title: INHALATION DEVICE

Abstract: Source: US2003172928A [EN] An inhalation device for dispensing medicament comprising a body; a medicament carrier; a mouthpiece, reversibly movable from a storage position wherein said mouthpiece is within said body to an in-use position wherein a portion of the mouthpiece protrudes from the body and wherein the mouthpiece is in communication with said medicament carrier to allow passage of medicament therebetween; and a mouthpiece actuator coupled to the mouthpiece by a coupling mechanism comprising a rack and pinion mechanism or a hinged lever mechanism such that actuation of said mouthpiece actuator moves the mouthpiece towards said storage position and deactuation of the mouthpiece actuator moves the mouthpiece towards said in-use position, wherein said body is shaped to be holdable in one hand and the mouthpiece actuator is actuatable in response to a discrete motion of the thumb on the same hand.

Classifications:

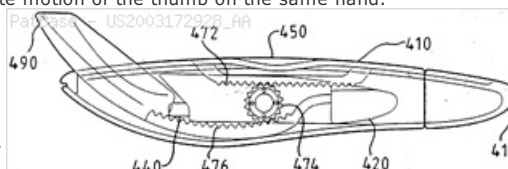
International (IPC 8-9): A61J1/05 A61M11/00 A61M11/08
A61M13/00 A61M15/00 A61M16/00 A61M16/06 (Advanced/Invention);
A61J1/05 A61M11/00 A61M13/00 A61M16/00
A61M16/06 (Advanced/Non-invention)

International (IPC 1-7): A61J1/05 A61M11/00 A61M11/08
A61M13/00 A61M15/00 A61M16/00 A61M16/06 A61M16/10 B05D7/14
B65D83/06

CPC: A61M15/0023 A61M15/0065 A61M15/0071

European: A61M15/00D K61M15/00A20B

US: 128/203.12 128/203.120S 128/203.15 128/203.150P



Family:

Publication number	Publication date	Application number	Application date
AT274949 E	20040915	AT19990947413T	19990923
AU199960869 A1	20000417	AU19990060869	19990923
AU199960869 A5	20000417	AU19990060869	19990923
DE69919882 D1	20041007	DE19996019882	19990923
DE69919882 T2	20050915	DE19996019882T	19990923
EP1115442 A1	20010718	EP19990947413	19990923
EP1115442 B1	20040901	EP19990947413	19990923
GB9820938 A0	19981118	GB19980020938	19980926
JP2002525180 T2	20020813	JP20000571975T	19990923
US2003172928 AA	20030918	US20030385128	20030310
US6568389 BA	20030527	US20010806043	20010511
US6748948 BB	20040615	US20030385128	20030310
WO0018458 A1	20000406	WO1999EP07080	19990923

Priority:

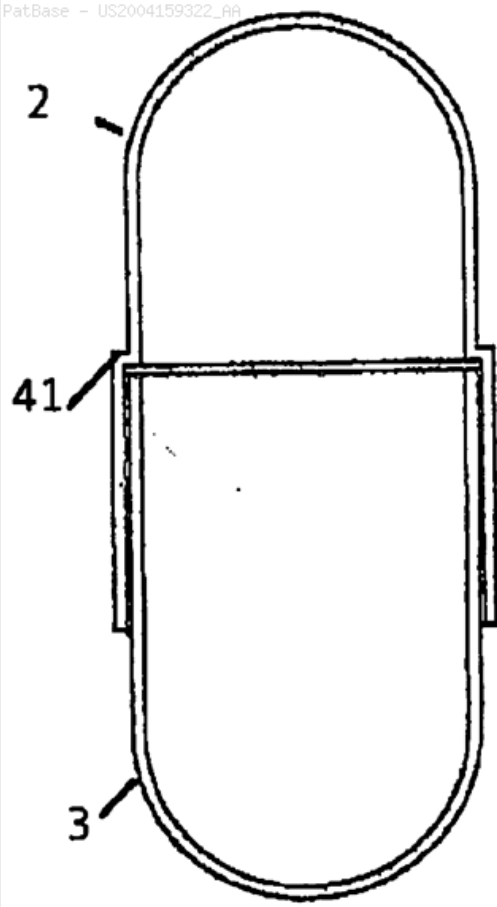
GB19980020938 19980926 US20010806043 20010511 US20030385128 20030310
WO1999EP07080 19990923

Probable Assignee: SMITHKLINE BEECHAM CORP**Assignee(s):** (std): ANDERSON GREGOR JOHN MCLENNAN ; GLAXO GROUP LTD ; RAND PAUL KENNETH ; SMITHKLINE BEECHAM CORP**Assignee(s):** GLAXO GROUP LTD GREENFORD ; GLAXO WELLCOME INC**Inventor(s):** (std): ANDERSON GREGOR JOHN MCLENNAN ; RAND PAUL KENNETH ; RAND KENNETH ; PAUL KENNETH RAND ; GREGOR JOHN MCLENNAN ANDERSON ; ANDERSON JOHN**Agent(s):** NAGAI HIROSHI**Designated states:** AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW**2) Family number: 30740404 (US2004159322A)**

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Title: CAPSULE FOR TAKING AN ACTIVE SUBSTANCE WHICH CAN BE INHALED**Abstract:** Source: US2004159322A [EN] The invention relates to a novel capsule for receiving an active substance to be administered by inhalation, which is preferably intended for use in a powder inhaler operating on the Bernoulli principle.**Classifications:****International (ipc 8-9):** A61J1/03 A61K9/00 A61K9/48 A61K9/72 A61M11/00 A61M13/00 A61M15/00 A61M16/00 B32B1/02 B65D83/00 B65D83/06 (Advanced/Invention);**A61J1/00 A61K9/00 A61K9/48 A61K9/72 A61M11/00 A61M13/00 A61M15/00 A61M16/00 B32B1/00 B65D83/00 B65D83/06 (Core/Invention)****International (ipc 1-7):** A61K9/00 A61K9/48 A61M15/00 A61M16/00 **CPC:** A61M15/003 A61M15/0035 A61M15/0048 A61K9/4808 A61M15/0045 A61M2202/064 A61K9/0075 A61K9/48 A61M15/0028 Y10T428/13 A61M15/0026**European:** A61K9/00M20B A61K9/00M20B3 A61K9/48 A61K9/48A A61M15/00C A61M15/00C2 K61M15/00C1 K61M15/00C1P1 K61M15/00C2B2 K61M202/06B**US:** 128/200.15 128/200.24 128/203.12 128/203.15 128/203.150P 128/203.21 128/203.210S 428/34.1 428/34.100P

PatBase - US2004159322_A0

**Family:**

Publication number	Publication date	Application number	Application date
AU2003300220 AA	20040810	AU20030300220	20031220
AU2003300220 AH	20040810	AU20030300220	20031220

CA2513201 AA	20050712	CA20032513201	20031220
CA2513201 C	20121002	CA20032513201	20031220
DE10300984 A1	20040722	DE20031000984	20030114
EP1587564 A2	20051026	EP20030799497	20031220
JP2006517421 T2	20060727	JP20040566013T	20031220
US2004159322 AA	20040819	US20040757047	20040114
US2009181191 AA	20090716	US20090365563	20090204
US7878193 BB	20110201	US20040757047	20040114
US8001965 BB	20110823	US20090365563	20090204
WO04062640 A2	20040729	WO2003EP14694	20031220
WO04062640 A3	20041021	WO2003EP14694	20031220

Priority:

DE20031000984 20030114 US20030449972P 20030225 US20040757047 20040114
WO2003EP14694 20031220 US20090365563 20090204

Probable Assignee: BOEHRINGER INGELHELM INT GMBH

Assignee(s): (std): BOEHRINGER INGELHELM INT ; BOEHRINGER INGELHELM PHARMA ; HOCHRAINER DIETER ; KLADDERS HEINRICH ; METZGER BURKHARD

Assignee(s): BOEHRINGER INGELHELM INT GMBH ; BOEHRINGER INGELHELM PHARMA GMBH AND CO KG ; BOEHRINGER INGELHELM INT ; BOEHRINGER INGELHELM INT GMBH ; BOEHRINGER INGELHELM INTERNATIONAL GMBH

Inventor(s): (std): BURKHARD METZGER ; DIETER HOCHRAINER ; HEINRICH KLADDERS ; HOCHRAINER DIETER ; KLADDERS HEINRICH ; METZGER BURKHARD

Agent(s): FETHERSTONHAUGH AND CO; MICHAEL P MORRIS BOEHRINGER INGELHEIM USA CORP; MICHAEL P; WENDY A

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

3) Family number: 40901748 (US2007283955A)

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Title: PERORAL POWDER DELIVERY DEVICE

Abstract: Source: US2007283955A [EN] A peroral powder delivery device having the capability to completely aspirate a peroral powder in the capsule through an oral cavity with simple operation to make holes in a capsule that contains a peroral powder such as a powdery medicine or a powdery supplement, a simple structure enabling the reduced manufacturing cost, and a user-friendly operation, in which a capsule holder for loading the capsule into a body is attached so as to be capable of advancing into and retracting from the inside of the body, the body has a cutter blade to make holes on both ends of the capsule as it advances into the body being held by the capsule holder, first and second air passageways having connection ports in communication with the holes in the capsule loaded in the body, the first air passageway has an inhaling port for inhaling the peroral powder in the capsule and the second air passageway has a suction valve that opens by the inhaling force from an inhaling port introduce air into the capsule.

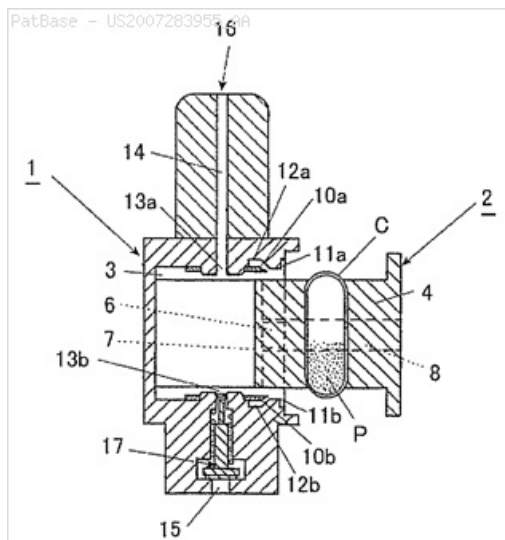
Classifications:

International (IPC 8-9): A61M15/00 A61M16/00 (Advanced/Invention); A61M15/00 A61M16/00 (Core/Invention)

CPC: A61M15/002 A61M15/0038 A61M15/004 A61M15/0028 A61M2202/064 A61M2206/16

European: A61M15/00C K61M15/00A13 K61M15/00C1P1 K61M15/00C1P2 K61M15/00C1P3 K61M202/06B K61M206/16

US: 128/200.24 128/203.12 128/203.15 128/203.21



Family:

Publication number	Publication date	Application number	Application date
US2007283955 AA	20071213	US20060422770	20060607
US7806117 BB	20101005	US20060422770	20060607

Priority:

US20060422770 20060607

Probable Assignee: SHIN NIPPON BIOMEDICAL LABORATORIES LTD

Assignee(s): (std): BIOACTIS LIMITES ; SHIN NIPPON BIOMEDICAL LAB LTD

Assignee(s): SHIN NIPPON BIOMEDICAL LABORATORIES LTD ; BIOACTIS LTD

Inventor(s): (std): TSUTSUI TATSUO

Agent(s): GREENBLUM AND BERNSTEIN PLC

Title: SIMPLE CAPSULE-BASED INHALER

Abstract: Source: US2011259328A [EN] A dry powder inhaler for pulmonary or nasal use, employing capsules containing a dose of powder for inhalation, comprising two operating components and an optional cover. Air is drawn by the patient via a mouthpiece or nosepiece which is in communication with the capsule and travels via air paths through the device and through the capsule thereby dispersing and entraining the dose of powder. The capsule is cut by cutting means located on one of the components, in a manner which eliminates or minimizes capsule debris and minimizes powder leakage during use. The inhaler body and capsule cutting blades comprise a single operating component and they may be manufactured in a single unitary step. The invention affords a very economical and simple device for the delivery of pulmonary medicines.

Classifications:

International (IPC 8-9): A61M A61M15/00 A61M15/08

B65D83/06 (Advanced/Invention);

A61M15/00 (Core/Invention);

A61M15/08 (Core/Non-invention);

A61M (Subclass/Invention)

International (IPC 1-7): A61M15/00

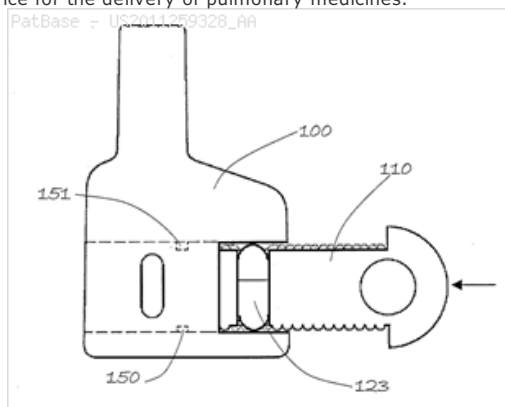
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European: A61M15/00C K61M15/00C1P2 K61M15/00C1P3

K61M15/00C4 K61M202/06B K61M205/58B K61M205/58C

US: 128/203.12 128/203.15 128/203.150P 128/203.21 128/203.23

**Family:**

Publication number	Publication date	Application number	Application date
AR080968 AA	20120523	AR2011P101431	20110426
AU2011247073 AA	20111103	AU20110247073	20110418
AU2011247073 BB	20130321	AU20110247073	20110418
BR112012027254 A2	20160726	BR20121127254	20110418
CA2791149 AA	20120824	CA20112791149	20110418
CA2791149 C	20130723	CA20112791149	20110418
CL2012002970 A1	20131115	CL20120002970	20121024
CN102933244 A	20130213	CN201180021233	20110418
CN102933244 B	20140219	CN201180021233	20110418
CO6561767 A2	20121115	CO20120191328	20121025
DE602011003036 D1	20131031	DE201160003036T	20110418
DK2536460 T3	20131202	DK20110716635T	20110418
EP2536460 A1	20121226	EP20110716635	20110418
EP2536460 B1	20130911	EP20110716635	20110418
ES2431832 T3	20131128	ES20110716635T	20110418
HK1174863 A1	20140207	HK20130101979	20130215
HR20130923 T1	20131108	HR20130000923	20130930
IL221662 A0	20121129	IL20110221662	20110418
IL221662 A1	20150129	IL20110221662	20110418
IN07454CN2012 A	20141219	IN2012CN07454	20120829
JP2013524976 T2	20130620	JP20130506742T	20110418
JP5651233 B2	20150107	JP20130506742T	20110418
KR101266884 B1	20130527	KR20127026794	20110418
KR20130028722 A	20130319	KR20127026794	20110418
MX2012012464 A1	20130227	MX20120012464	20110418
MY160369 A	20170315	MY20120700744	20110418
NZ601830 A	20130628	NZ20110601830	20110418
PT105065 A	20111026	PT20100105065	20100426
PT105065 B	20120731	PT20100105065	20100426
RU2012141640 A	20140610	RU20120141640	20110418
RU2536251 C2	20141220	RU20120141640	20110418
SG183307 A1	20120927	SG20120060042	20110418
TH126688 A	20130823	TH20121005584	20110418
TH58412 B	20171019	TH20121005584	20110418
TW201141557 A	20111201	TW20110114493	20110426
TWI539980 B	20160701	TW20110114493	20110426
US2011259328 AA	20111027	US20110094108	20110426
US8677992 BB	20140325	US20110094108	20110426
WO11135327 A1	20111103	WO2011GB50760	20110418
ZA201206059 A	20130731	ZA20120006059	20120813

Priority:

EP20110716635 20110418 PT20100105065 20100426 WO2011GB50760 20110418

Probable Assignee: HOVIONE TECHNOLOGY LTD

Assignee(s): (std): HOVIONE FARMACIENCIA S A ; HOVIONE INT LTD ; HOVIONE INTERNAT LTD ; MCDERMENT IAIN G ; MENDES PEDRO J ; MCDERMENT IAIN ; MENDES PEDRO ; KHOVIONE INTERNEHSHNL LTD ; HOVIONE TECH LTD ; VILLAX PETER

Assignee(s): PETER VILLAX ; HOVIONE TECHNOLOGY LTD ; HOVIONE INTERNATIONAL LTD. ; PEDRO MENDES ; IAIN MCDERMENT ; HOVIONE FARMACIENCIA SA

Inventor(s): (std): MCDERMENT IAIN ; MCDERMENT IAIN G ; MCDERMENT LAIN ; MENDES PEDRO ; MENDES PEDRO J ; MENDES PEDRO JORGE ; VILLAX PETER ; VILLASH PETER ; MENDISH PEDRU ; MAKDERMENT AJAN ; PETER VILLAX ; PEDRO MENDES ; IAIN MCDERMENT

Inventor(s): PEDRO JORGE MENDES

Agent(s): ADAMS PLUCK; FETHERSTONHAUGH AND CO; LUZ CLEMENCIA DE PAEZ; HEDGES MARTIN NICHOLAS; VALLEJO JUAN PEDRO; EDWARD LANGER; KAWAKAMI KOJI; DICKSTEIN SHAPIRO LLP

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

5) Family number: 50915137 (WO12047181A1)

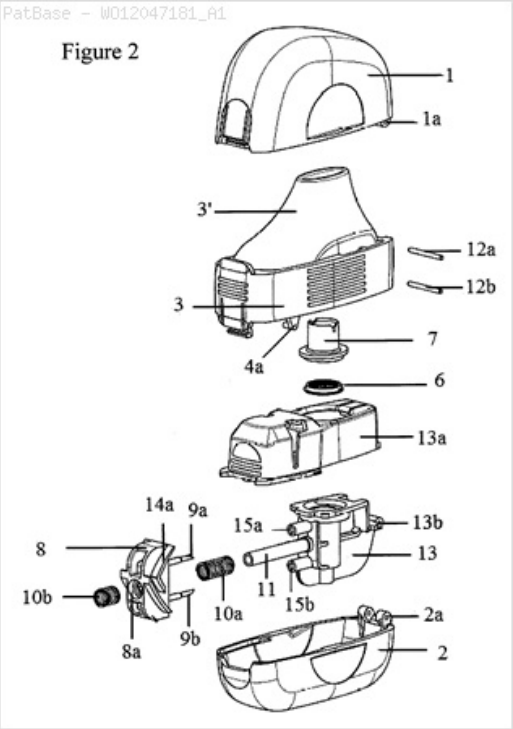
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Title: INHALER COMPRISING CAPSULE

Abstract: The present invention relates to an inhaler which is suitable for administration of drugs in dry powder form from capsules. The inhaler comprises: a mouthpiece cover (1) hiding the mouthpiece; a bottom casing (2) where the device mechanism is situated; a movable mouthpiece (3') communicating with the bottom casing; a middle casing (3) situated between the bottom casing and the mouthpiece; a capsule chamber (13) where the capsule is placed and an air intake duct (5) which is inserted into the mouthpiece. The inhaler is characterized in that the diameter of the air intake duct (5) through which the air flow entraining the dry powder medicament from the capsule to the mouthpiece passes is in the range of 3-7 mm. This results in an increase of the flow resistance of the inhaler. Consequently, the flow rate required to be applied by the patient in order to provide the standard pressure decrease of 4 kPa decreases. The inhaler enables therefore effective inhalation of dry powder medicament even at low flow rates during inhalation.

Classifications:

International (IPC 8-9): A61M11/00 A61M15/00 (Advanced/Invention); A61M11/00 (Advanced/Non-invention)
CPC: A61M15/0028 A61M15/0026 A61M11/003 A61M15/0035 A61M15/002 A61M15/0041 A61M15/0021 A61M2202/064 A61M2205/0238
European: A61M15/00C K61M11/00A2 K61M15/00A13 K61M15/00A20 K61M15/00A20C2 K61M15/00C1P1 K61M15/00C1P4 K61M202/06B K61M205/02L



Family:

Publication number	Publication date	Application number	Application date
EP2624897 A1	20130814	EP20110787953	20111006
EP2624898 A2	20130814	EP20110799517	20111006
EP3235533 A1	20171025	EP20170171252	20111006
TR201008226 A2	20120424	TR20100008226	20101007
TR201109439 A2	20120424	TR20110009439	20110926
TR201109804 A2	20120521	TR20110009804	20111004
WO12047181 A1	20120412	WO2011TR00225	20111006
WO12047182 A2	20120412	WO2011TR00226	20111006
WO12047182 A3	20120705	WO2011TR00226	20111006

Priority:

EP20110799517 20111006 TR20100008226 20101007 TR20110009439 20110926 WO2011TR00225 20111006 TR20110009804 20111004 WO2011TR00226 20111006

Probable Assignee: BILGIC MAHMUT

Assignee(s): (std): BILGIC MAHMUT

Assignee(s): MAHMUT BILGIC

Inventor(s): (std): BILGIC MAHMUT

Inventor(s): MAHMUT BILGIC

Agent(s): KOESE MERVE M; KOESE M MERVE

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 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

6) Family number: 48302962 (US2013255679A)

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Title: INHALATOR

Abstract: Source: US2013255679A [EN] An inhalator for the inhalation of powdered drug preparations from capsules which contain the powdered preparations. The inhalator has a mouthpiece or nosepiece and an assembly including: a capsule holder including a capsule chamber, the capsule chamber having an air inlet opening and an air outlet opening; a capsule opening device for opening a capsule; a finger-operable actuator. The inhalator further includes a rigid outer shell including a lower shell part hinged to an upper shell part so that the shell is openable and closable, the shell serving to cover and protect the assembly and the mouthpiece or nosepiece. The assembly and the mouthpiece or nosepiece are removable as a hinged unit from the open shell as a hinged unit without dismantling either unit, or the shell is arranged so that the contours of the rim of each shell part match the contours of the rim of the other around each shell part when the shell is in the closed condition, or the assembly is retained in the lower shell part and is not moveable in normal use with respect to the lower shell part.

Classifications:

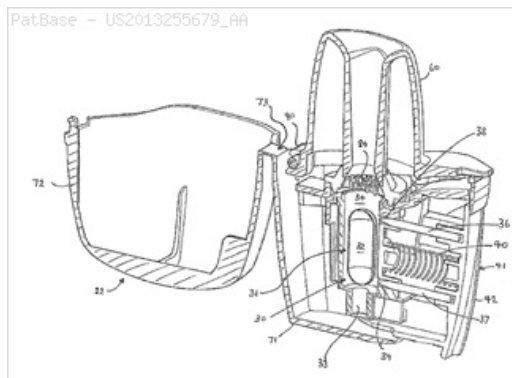
International (IPC 8-9): A61J1/05 A61J3/02 A61J3/07 A61M A61M11/00 A61M13/00 A61M15/00 A61M15/08 B65D83/00 (Advanced/Invention);

A61M15/00 A61M16/00 (Core/Invention);
A61M (Subclass/Invention)

International (IPC 1-7): A61M15/00
CPC: A61M2202/064 A61M15/0028 A61M15/08 A61M15/0026 A61M15/003 A61M15/0035 A61M15/0041 A61M15/0063

European: A61M15/00C K61M15/00A20C2 K61M15/00C1 K61M15/00C1P1 K61M15/00C1P4 K61M15/00C4 K61M15/08 K61M202/06B

US: 128/203.15



Family:

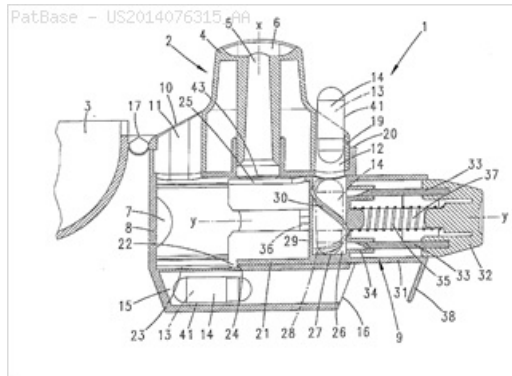
Publication number	Publication date	Application number	Application date
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AU2011340642 BB	20150820	AU20110340642	20111205
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CA2817800 C	20180109	CA20112817800	20111205
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CN103237570 B	20150805	CN201180058640	20111205
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NL2007892 C	20140114	NL20112007892	20111130
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Priority:

EP20110791550 20111205 GB20100020638 20101206 WO2011EP71775 20111205
JP20130541382T 20111205 JP20160248244 20161221

Probable Assignee: LABORATORIOS LICONSA SA**Assignee(s):** (std): ANDRADE LAURA ; CASTELLUCCI ALESSANDRO ; LABORATORIOS LICONSA S A ; LABORATORIOS LICONSA SA ; LICONSA S A LAB ; RUIZ JOSE RAMON ; RONCHI CELESTINO ; LICONSA LAB ; LICONSA LABORATORIOS SA ; LIKONSA S A LAB**Assignee(s):** LABORATORIOS LIKONSA SA**Inventor(s):** (std): ALESSANDRO CASTELLUCCI ; ANDRADE LAURA ; CASTELLUCCI ALESSANDRO ; CELESTINO RONCHI ; JOSE RAMON RUIZ ; KASTELLUCHCHI ALESSANDRO ; LAURA ANDRADE ; RAMON RUIZ JOSE ; RONCHI CELESTINO ; RONKI CELESTINO ; RUIS KHOSE RAMON ; RUIZ JOSE RAM N ; RUIZ JOSE RAMON**Inventor(s):** RUIZ JOSE RAMA³N**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MACRAE AND CO; LUIS FELIPE CASTILLO GIBSONE; ZBM PATENTS; ZBM PATENTS ZEA BARLOCCI AND MARKVARDSEN; ZEA BERNABE; CABINET ORES; SONODA AND KOBAYASHI INTELLECTUAL PROPERTY LAW; ZBM PATENTS ZEA BARLOCCI AND MARKVARDSEN 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 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 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**7) Family number: 52369060 (US2014076315A)**

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Title: DEVICE FOR INHALING PULVERULENT SUBSTANCES**Abstract:** Source: US2014076315A [EN] The invention relates to a device (1), which is closable by a cap, for inhaling powdery substances (13), particularly of a medicinal kind, contained in capsules (14) that can be displaced by means of a slider (9) into an emptying position for the purpose of aspirating completely the content thereof. To further improve such a device in terms of clean storage, it is proposed to dispose the air inlet for the mouthpiece channel (5) adjacent to and below the closed mouthpiece cap (3).**Classifications:****International (IPC 8-9):** A61M15/00 A61M16/00 (Advanced/Invention)**CPC:** A61M15/0028 A61M15/0026 A61M15/003 A61M15/0035 A61M15/0041 A61M15/0063 A61M2202/064 A61M2206/14 A61M2206/16**European:** A61M15/00C K61M15/00A20C2 K61M15/00C1 K61M15/00C1P1 K61M15/00C1P4 K61M15/00C4 K61M202/06B K61M206/14 K61M206/16**US:** 128/203.15**Family:**

Publication number	Publication date	Application number	Application date
EP2707067 A1	20140319	EP20110722759	20110512
JP2014516660 T2	20140717	JP20140509614T	20110512
US2014076315 AA	20140320	US20110114986	20110512
US9579473 BB	20170228	US20110114986	20110512
WO12152333 A1	20121115	WO2011EP57686	20110512

Priority:

WO2011EP57686 20110512

Probable Assignee: SCHUCKMANN ALFRED VON**Assignee(s):** (std): SCHUCKMANN ALFRED VON ; VON SCHUCKMANN ALFRED**Inventor(s):** (std): VON SCHUCKMANN ALFRED**Agent(s):** RIEDER HANS JOACHIM; COLLARD AND ROE PC; MUELLER ENNO 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 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**8) Family number: 54184780 (US2014318538A)**

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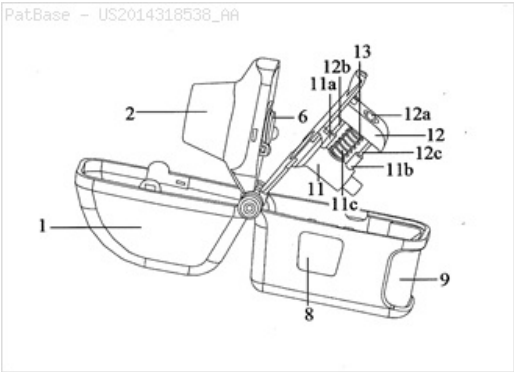
Title: INHALATION DEVICE**Abstract:** Source: US2014318538A [EN] The present invention relates to an inhalation device used for inhalation of the medicament in dry powder form from capsules.**Classifications:****International (IPC 8-9):** A47L9/24 A61M11/00 A61M15/00

A61M39/10 A61M39/22 B24B23/03 B24B55/10 F16L27/08 F16L37/53 (Advanced/Invention)

CPC: A61M15/0035 A61M15/0026 A61M15/0041 A61M11/003

A61M15/0021 A61M15/0028 A61M15/0081 A61M2202/064

A61M2205/276



Family:

Publication number	Publication date	Application number	Application date
EA026450 B1	20170428	EA20140000591	20121126
EA201400591 A1	20140930	EA20140000591	20121126
EP2782488 A1	20141001	EP20120832787	20121126
EP2782488 B1	20171025	EP20120832787	20121126
IN03738DN2014 A	20151106	IN2014DN03738	20140508
JP2014533576 T2	20141215	JP20140543456T	20121126
TR201718199 T4	20171221	TR20170018199T	20121126
US2014318538 AA	20141030	US20120360014	20121126
US9849255 BB	20171226	US20120360014	20121126
WO13095311 A1	20130627	WO2012TR00200	20121126

Priority:

EP20120832787 20121126 TR20110001671 20111125 TR20110011671 20111125
WO2012TR00200 20121126

Probable Assignee: BILGIC MAHMUT

Assignee(s): (std): BILGIC MAHMUT

Assignee(s): MAHMUT BILGIC

Inventor(s): (std): BILGIC MAHMUT

Inventor(s): MAHMUT BILGIC

Agent(s): INABA YOSHIYUKI; BURCU GOEKDEMIR; CLARK AND ELBING LLP

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

9) Family number: 66501904 (USD793546S)

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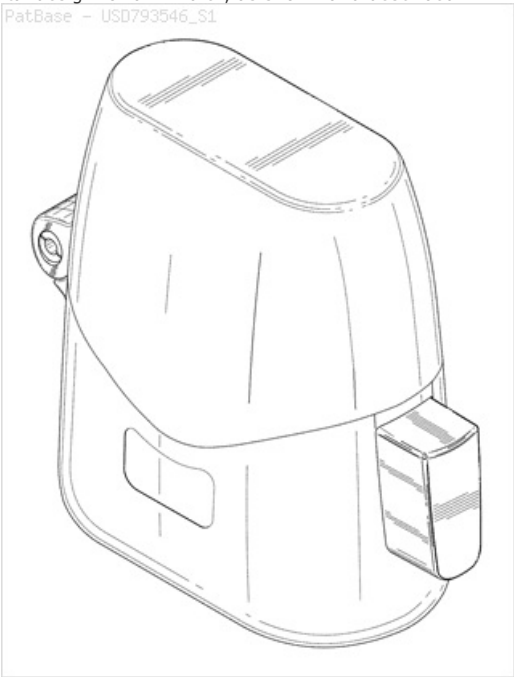
Title: INHALER

Abstract: Source: USD793546S [EN] [Source: Claim 1] The ornamental design for an inhaler, as shown and described.

Classifications:

US: D24/110

Locarno class: 29/02



Family:

Publication number	Publication date	Application number	Application date
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Priority:

EM20152801761F 20150928

Probable Assignee: ALFRED E TIEFENBACHER GMBH AND CO KG**Assignee(s):** (std): ALFRED E TIEFENBACHER GMBH AND CO KG**Inventor(s):** (std): AHERN DAVE ; CHRISTIE EWEN ; TIBBATTS JAMES ; DANSON ARRON ; EVANS TIM**Agent(s):** WHITE AND CASE LLP