

Search history

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Search ((DISPENSER AND CAP AND ARRANGEMENT) AND (IPC=A61M15/00)) (Results 29)
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Search 2 AND 3 (Results 2)
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17:
Search [SP]: list of figures [0054] the present invention will now be described, by way of example only, and with reference to the drawings, in which:
18: [0055] fig. 1 is a perspective view of a dispenser in a closed configuration[0056] fig. 2 is a similar view of the dispenser in open configuration[0057] fig. 3 is an exploded view of a prior version of the dispenser[0058] fig. 4 shows an upper portion of a preferred main body part of the dispenser[0059] fig. 5 is an underside view of a preferred dispenser cap[0060] fig. 6 a is an upper-end view of the dispenser cap of fig. 5[0061] fig. 6 b is a perspective view of the dispenser cap of fig. 5[0062] fig. 7 is a cut-through view of the dispenser cap of fig. 5 through axis x-x of fig. 6 a [0063] fig. 8 is a preferred dispenser cap closure device[0064] fig. 9 is a cut-through view along the x-x line of the dispenser cap closure device of fig. 8[0065] fig. 10 a is the dispenser cap closure device of fig. 8 in an extended state[0066] fig. 10 b is the dispenser cap closure device of fig. 8 in a collapsed state[0067] figs. 11 a to 11f show a sequence of steps of the dispenser cap assembly and[0068] fig. 12 shows an alternative closure device. (Results 29)
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Search 7 OR 17 (Results 40)
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1) Family number: 29592027 (FR64776E)

© PatBase

Title: JOINT EN MATIERE PLASTIQUE POUR LE BOUCHAGE DES FLACONS ET AUTRES RECIPIENTS

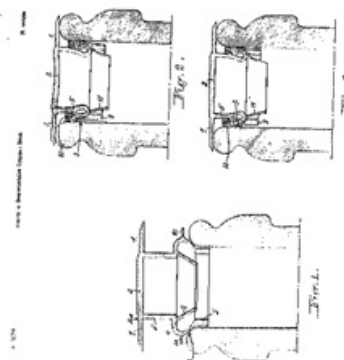
Classifications:

International (IPC 8-9): B65D39/00 (Advanced/Invention);
B65D39/00 (Core/Invention)

International (IPC 1-7): B65D39/00

CPC: B65D39/0029 B65D2539/003

European: B65D39/00F4 L65D339/02 L65D539/00Y2 L65D539/02

**Family:**

Publication number	Publication date	Application number	Application date
FR1082285 A	19541228		19530814
FR64776 E	19551202		19531103

Probable Assignee:

RICAL SA

Assignee(s): (std):

RICAL SA

Assignee(s):

RICAL

2) Family number: 821295 (US3380610A)

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Title: Snap-on lid for plastic container**Abstract:** Source: US3380610A ABSTRACT OF THE DISCLOSURE

A flexible closure for the neck of a container including a skirt, a central wall, and an annular sealing member hingedly connecting the skirt to the wall and being de-flectable from a non-sealing position located radially in-wardly of the skirt to a sealing position wherein a portion of the sealing member extends radially outwardly of the skirt to snugly engage an inside surface of the container neck.

Classifications:

International (IPC 8-9): B65D43/02 (Advanced/Invention); B65D43/02 (Core/Invention)

International (IPC 1-7): B65D17/06

CPC: B65D43/0218 B65D43/022 B65D2543/00092 B65D2543/00296

B65D2543/0037 B65D2543/00509 B65D2543/00518

B65D2543/00537 B65D2543/00546 B65D2543/00555

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European: B65D43/02S5B B65D43/02S5D L65D543/00Y1F2C

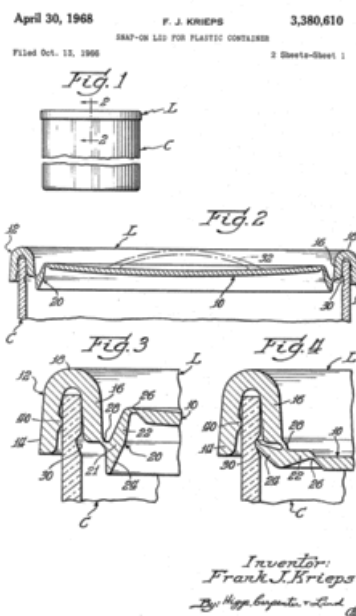
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L65D543/00Y8D3N L65D543/00Y8D5

US: 215/320 215/355 215/41

PatBase - US3380610_A

**Family:**

Publication number	Publication date	Application number	Application date
US3380610 A	19680430	US19660586443	19661013

Priority:

US19660586443 19661013

Probable Assignee:

CONTAINER CORP

Assignee(s): (std):

ARTHUR L MIX JR ; CONTAINER CORP

Assignee(s):

CONTAINER OF AMERICA CORP

Inventor(s): (std):

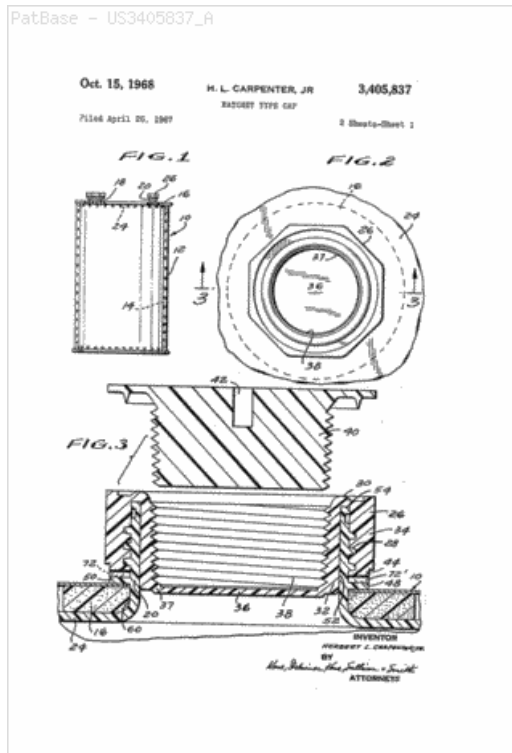
KRIEPS FRANK J

3) Family number: 839605 (US3405837A)

© PatBase

Title: Ratchet type cap**Abstract:** Source: US3405837A ABSTRACT OF THE DISCLOSURE

An improved tamper-proof plastic or plastic lined container including a body member having a neck defining an opening into the interior of the container and a closure. The neck and closure are provided with complementary ratchets capable of engaging and interlocking with each other thus preventing the disengagement of the neck and closure without causing a visible deformation to one or both members. B

Classifications:**International (IPC 8-9):** B65D39/08 B65D55/02 (Advanced/Invention);
B65D39/00 B65D55/02 (Core/Invention)**CPC:** B65D39/082 B65D55/022 B65D2255/20**European:** B65D39/08A B65D55/02D L65D255/20**US:** 220/258.3 220/265 220/27 220/288**Family:**

Publication number	Publication date	Application number	Application date
US3405837 A	19681015	US19670633951	19670426

Priority:

US19670633951 19670426

Probable Assignee:

GREIF BROS COOPERAGE CORP

Assignee(s): (std):

GREIF BROS COOPERAGE CORP

Inventor(s): (std):

CARPENTER HERBERT L JR ; CARPENTER JR HERBERT L

Inventor(s):

JR HERBERT L CARPENTER

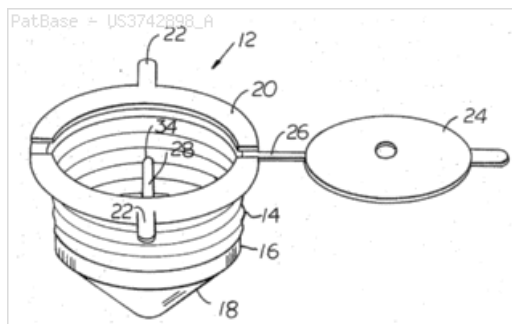
4) Family number: 7373746 (US3742898A)

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Title: PRESSURE INDICATING BUNG WITH SELF-LOCKING INSERTION FEATURE

Abstract: Source: US3742898A A bung in which the side walls are relaxed upon insertion into a bung hole, as in a beer barrel, but which subsequently become compressed when pressure in the barrel or similar vessel pushes against a bottom wall connected to the side wall, compressing the side wall with bellows action, thereby forcing corrugated side wall edges into contact with the bung wall. Pressure on the bottom wall forces the bottom wall upward so that an elongated member attached to the bottom wall raises as the bottom wall is raised, thereby indicating the extent of pressure on the bottom wall.

Classifications:**International (IPC 8-9):** B65D39/04 (Advanced/Invention);
B65D39/00 (Core/Invention)**International (IPC 1-7):** G01L19/12**CPC:** B65D39/04**European:** B65D39/04**US:** 116/268 116/70 215/358 217/108 217/78 220/233



Family:

Publication number	Publication date	Application number	Application date
US3742898 A	19730703	US19720279314	19720810

Priority:

US19720279314 19720810

Probable Assignee:

NOYCE R

Assignee(s): (std):

NOYCE R

Assignee(s):

NOYCE R US

Inventor(s): (std):

SOUZA A

Inventor(s):

SOUZA A US

5) Family number: 3616817 (FR2375104A)

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Title: OBTURATEUR DE BOUCHAGE A DOUBLE LEVRES POUR BOUTEILLES ET RECIPIENTS TWO PART BOTTLE STOPPER - HAS LOWER PART FORMED WITH RESILIENT SKIRT TO BE RECEIVED IN BOTTLE NECK AND JOINED TO UPPER PART AT NARROW SECTION

Abstract: Source: FR2375104A Obturateur de bouchage pour recipients contenant un produit sous pression. Cet obturateur comporte a la partie inferieure un element annulaire a double levres en V, qui se retourne vers l'exterieur lorsqu'on l'oblige a penetrer dans le goulot du recipient. Cet obturateur est particulierement utilise pour le bouchage de boissons carbonatees telles que la biere. The stopper is in two parts, the lower part having a diameter (d2) which corresponds to the bore of the bottle neck. A flange (6) is joined to the top of the lower half of the stopper. The upper part of the stopper is joined to the lower half at the inner diameter (d1). When the stopper is forced into the bottle neck, the end of the flange (8) is forced into the neck by flexing at the section (e). The lower part of the upper flange sits on the top of the bottle neck.

Classifications:

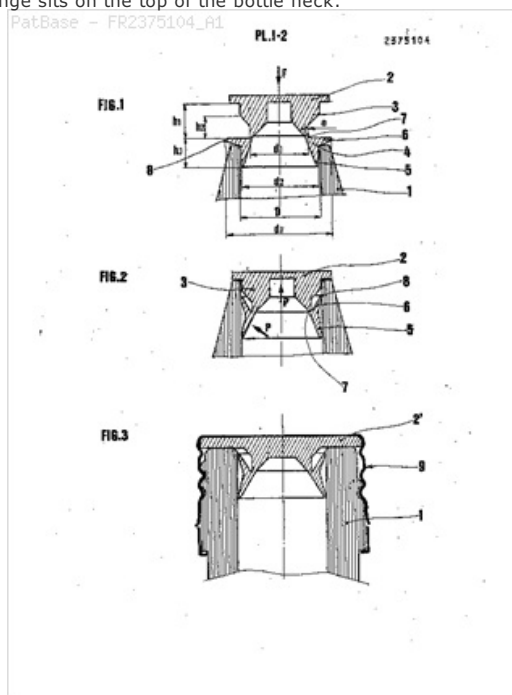
International (IPC 8-9): B65D39/00 (Advanced/Invention);

B65D39/00 (Core/Invention)

International (IPC 1-7): B65D39/04

CPC: B65D39/0029

European: B65D39/00F4



Family:

Publication number	Publication date	Application number	Application date
FR2375104 A1	19780721	FR19760039803	19761227
FR2375104 B1	19810717	FR19760039803	19761227

Priority:

FR19760039803 19761227

Probable Assignee:

CEBAL

Assignee(s): (std):

CEBAL

Inventor(s): (std):

VANDREBECK ROGER

Inventor(s):

ROGER VANDREBECK

6) Family number: 8597570 (US4341320A)

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Title: Tampering indicating bottle cap and bottle

Abstract: Source: US4341320A A bottle cap having an outer peripheral skirt for receipt around the neck of a bottle with an axial end overlying the throat opening of the bottle, the axial end having a first annular flat land adjacent the outer periphery and a central land raised above the flat land and connected to a flat land by an annular convoluted portion adapted to be received interiorly of the throat opening. The convoluted portion is deformable such that the central land can be depressed to a point approximately coextensive with the top surface of the annular flat land. During depression the convoluted portion snugly engages the inside diameter wall of the bottle neck. The convoluted portion is dimensioned such that when the cap is placed on the bottle and urged downwardly with respect to the bottle top, the central land will assume a position elevated above the annular flat land.

Classifications:

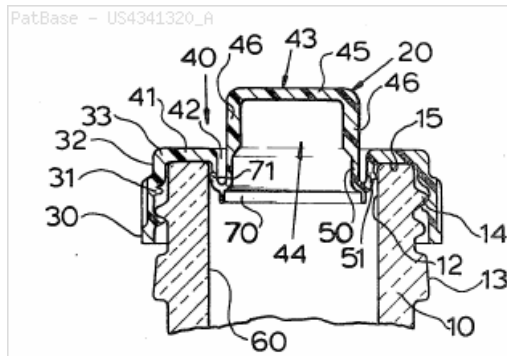
International (IPC 8-9): B65D41/04 (Advanced/Invention);
B65D41/04 (Core/Invention)

International (IPC 1-7): B65D41/28

CPC: B65D41/0414

European: B65D41/04B1

US: 215/341 215/354

**Family:**

Publication number	Publication date	Application number	Application date
US4341320 A	19820727	US19800193810	19801003

Priority:

US19800193810 19801003

Probable Assignee:

LIBIT SIDNEY M

Assignee(s): (std):

LIBIT SIDNEY M

Inventor(s): (std):

LIBIT SIDNEY M

7) Family number: 4689411 (US4504009A)

© PatBase

Title: Closure having means for retention in tubular container

Abstract: Source: US4504009A This relates to a closure unit which may be inserted into an open end of a tubular container body, particularly one formed of paperboard or plastic material, and which will have an automatic interlock with the container body and a seal sufficient to hold the closure unit in sealed relation with respect to the container body under all normal usages without the use of adhesive. The interlock between the closure unit and the container body is in the form of a plurality of retaining lugs which are resiliently deflected when the closure unit and container body are assembled and which have a pressure engagement with the interior surface of the container body to form an interlock therewith.

Classifications:

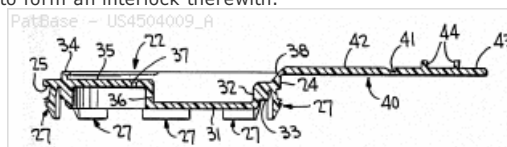
International (IPC 8-9): B65D47/08 (Advanced/Invention);
B65D47/08 (Core/Invention)

International (IPC 1-7): B65D3/10

CPC: B65D47/0847 B65D2251/1066

European: B65D47/08B4F L65D251/10F

US: 215/355 220/254.3 220/307 220/352 220/800 229/5.5 229/55

**Family:**

Publication number	Publication date	Application number	Application date
US4504009 A	19850312	US19800162561	19800624

Priority:

US19800162561 19800624

Probable Assignee:

CONTINENTAL GROUP

Assignee(s): (std):

CONTINENTAL GROUP

Assignee(s):

THE CONTINENTAL GROUP INC

Inventor(s): (std):

BOIK ELMER J ; MARSHALL FREDERICK P

8) Family number: 2237079 (US4799602A)

© PatBase

Title: Plug lid for a container

Abstract: Source: US4799602A A plug lid for fitting in an aperture in a container comprises a peripheral flange, a plug wall extending from the inner periphery of the flange, a retaining bead protruding laterally from the plug wall at a distance from the flange, an annular portion extending inwardly from the plug wall, a frustoconical portion extending axially and inwardly from the inner periphery of the annular portion to support a central panel in or near the plane of the peripheral flange. The annular portion joins the inside of the plug wall adjacent the retaining bead and extends inwardly and axially at an obtuse angle A degrees to the plug wall to join the frustoconical portion. The lids may be moulded from polyethylene, polypropylene or nylon.

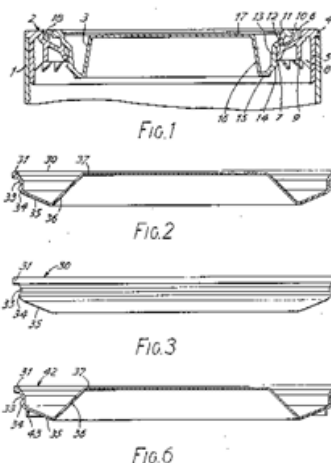
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International (IPC 8-9): B65D39/02 B65D43/02

B65D43/04 (Advanced/Invention);
B65D39/00 B65D43/02 (Core/Invention)
International (IPC 1-7): B65D39/00 B65D39/02 B65D43/04
CPC: B65D43/021 B65D2543/00092 B65D2543/00296
B65D2543/00435 B65D2543/00509 B65D2543/00546
B65D2543/00657 B65D2543/00685 B65D2543/0074
B65D2543/00796
European: B65D43/02S3D L65D543/00Y1F2C L65D543/00Y1M6
L65D543/00Y6 L65D543/00Y8D1C L65D543/00Y8D3N
L65D543/00Y8S1B10 L65D543/00Y8S1D2 L65D543/00Y8S3B4
L65D543/00Y8S3D2
US: 220/307 220/359 220/659 220/74 220/789

PatBase - US4799602_R

U.S. Patent Jan. 24, 1989 Sheet 1 of 2 4,799,602



Family:

Publication number	Publication date	Application number	Application date
AT67139 E	19910915	AT19880301880T	19880303
AU198812823 A1	19881013	AU19880012823	19880309
AU593982 B2	19900222	AU19880012823	19880309
CA1290282 A1	19911008	CA19880563196	19880331
DE3864718 D1	19911017	DE19883864718	19880303
EP0286230 A1	19881012	EP19880301880	19880303
EP0286230 B1	19910911	EP19880301880	19880303
GB2203135 A1	19881012	GB19870008428	19870408
GB2203135 B2	19900808	GB19870008428	19870408
GB8708428 A0	19870513	GB19870008428	19870408
JP63258763 A2	19881026	JP19880070840	19880324
US4799602 A	19890124	US19880175439	19880330
ZA8801613 A	19880830	ZA19880001613	19880307

Priority:

CA19880563196 19880331 EP19880301880 19880303 EP19880301880 19880303
GB19870008428 19870408

Probable Assignee: METAL BOX PLC QUEENS HOUSE FORBURY ROAD READING RG

Assignee(s): (std): CMB FOODCAN PLC ; METAL BOX PLC

Assignee(s): METAL BOX PLC QUEENS HOUSE FORBURY ROAD READING RG ; RAYNER ADRIEN P ; CMB FOODCAN PLC WORCESTER GB ; CMB PACKAGING ; CMB PACKAGING UK LTD ; COLLINS MALCOLM G ; MB GROUP PLC ; METAL BOX P L C

Inventor(s): (std): COLLINS MALCOLM G ; COLLINS MALCOLM GEORGE ; MARUKOMU JIYOOJI KORINZU ; RAYNER ADRIEN P ; RAYNER ADRIEN PATRICK ; EIDORIAN PATORITSUKU REINAA

Inventor(s): MALCOLM GEORGE COLLINS ; RAYNER ADRIEN PATRICK MALMESBURY WILTSHIRE SN16 9J ; RAYNER ADRIEN PATRICK MALMESBURY WILTSHIRE SN16 9JS GB ; COLLINS MALCOLM GEORGE WANTAGE OXON OX12 7HE GB ; ADRIEN PATRICK RAYNER

Agent(s): GRIFFITH HACK; FINLAYSON AND SINGLEHURST

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

9) Family number: 2910746 (US4815618A)

© PatBase

Title: Tamper indicating dispenser closure

Abstract: Source: US4815618A A tamper indicating closure has a hermetically sealed membrane which prevents contamination. The membrane is held within a closure cap for easy application to a container neck prior to being heat welded to the container. A disc secured to the membrane together with a pull ring serves to sever the membrane and open the sealed container. A lid functions to cover the membrane and disc until the seal is to be broken and thereafter to close the container when not in use. The only way to gain access to the contents, i.e. to the interior of the container, is by tearing the membrane. The means for tearing the membrane substantially covers the membrane except for a very thin edge portion thereof adjacent the spout of the container. This insures that tearing for the purpose of opening will substantially completely remove the membrane and also insures that access to the membrane for tampering purposes is very difficult.

Classifications:

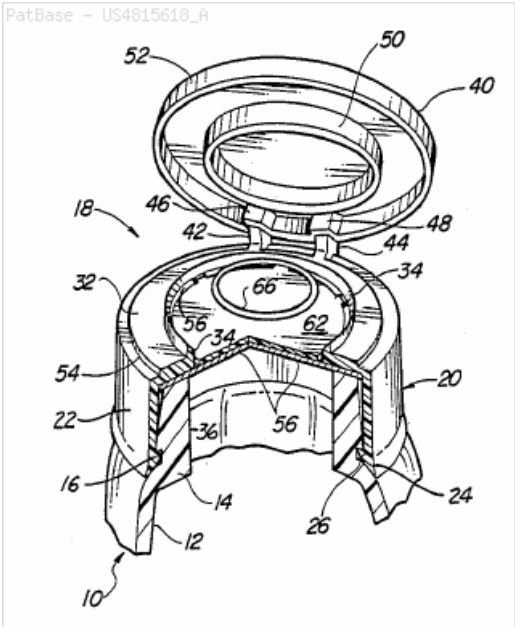
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B65D51/20 (Advanced/Invention);

B65D47/06 B65D47/08 B65D51/18 (Core/Invention)

International (IPC 1-7): B65D41/34

CPC: B65D47/0857 B65D47/103 B65D51/20 B65D2251/0025
B65D2251/0093



Family:

Publication number	Publication date	Application number	Application date
US4815618 A	19890328	US19880185909	19880425

Priority:

US19880185909 19880425

Probable Assignee: SUNBEAM PLASTICS CORP
Assignee(s): (std): SUNBEAM PLASTICS CORP
Assignee(s): SUNBEAM PLASTIC CORP
Inventor(s): (std): GACH PETER P

10) Family number: 29375745 (US5009338A)

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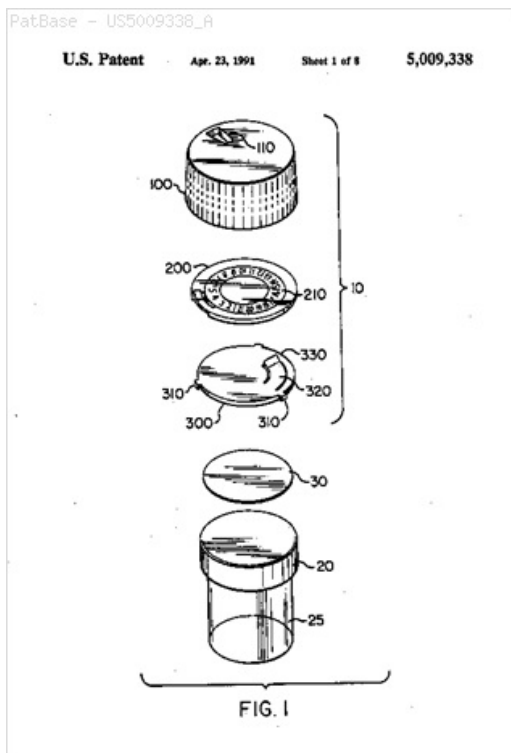
Title: INDICATOR CAP FOR A MEDICINE BOTTLE

Abstract: Source: US5009338A Disclosed is an indicator cap for indicating each time a bottle is opened and re-closed having an outer cover shaped in the manner of a conventional bottle cap with a window in the top piece of the cap. The cap is designed to be attached to the sealing cap of the container such that some motion can occur between the two caps during opening and closing of the container, and this lost motion drive is used to advance the indicator. Underneath the window, and within the body of the device, is an indicator wheel having numbers, days, times, etc. engraved or printed thereon which are visible through the window to indicate the next time a dose of the medication should be taken. The indicator wheel contains a pawl formed therein or attached thereto that engages a set of teeth, formed in the underside of the top piece of the outer cover, only when the device is being opened. This engagement causes the indicator wheel to move to the next index location each time the cap is opened. Underneath the indicator wheel, and attached to the outer cover is a snap cover which contains a pawl formed therein or attached thereto. The pawl engages a set of teeth on the indicator wheel to prevent the indicator wheel from moving with respect to the ratchet when the device is being closed. The pawls on the two wheels, and the teeth formed opposite the pawls are designed such that the index wheel moves to a new location upon opening the cap, and is kept in that location when the cap is closed, allowing the window in the top piece to uncover the next indicator as the device is closed. Both pawls are formed or attached such that space is provided for the pawl to move out of the way when being moved in a direction where the teeth are disengaged. The pawl moves away from the teeth as the teeth slide over the pawl, and as the movement is completed, the pawl makes an audible sound as it snaps back into place. Thus, the device makes a sound when it has been opened a sufficient amount for the index to move to the next location, and it also makes a sound when it has been closed sufficiently to re-cock the mechanism for the next cycle. The device also has an extension plug that attaches between the snap cover and the sealing cap to allow the indicator cap to be attached to a sealing cap that is larger than the outer cover. Also disclosed in an alternative embodiment wherein the snap cover and the sealing cap are formed as a single unit. A second alternative embodiment is disclosed wherein the lost motion drive is formed by a retainer disc, a separate ratchet, and a bottom piece for attachment to the sealing cap of the bottle.

Classifications:

International (IPC 8-9): A61J1/00 A61J7/00 A61J7/02 A61J7/04
A61M15/00 B65D41/04 B65D50/04 B65D50/06 B65D50/10
B65D51/24 B65D55/02 B65D83/04 B67D5/22 B67D7/22 C30B15/00
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H01L21/02 (Core/Invention);
A61M15/00 B65D83/04 (Core/Non-invention);
A61J B65D (Subclass/Invention)
International (IPC 1-7): A61J1/00 A61J1/03 A61J7/00 A61J7/02
A61J7/04 A61M15/00 B65D25/52 B65D41/00 B65D41/04 B65D50/04
B65D50/10 B65D51/18 B65D51/24 B65D55/02 B65D83/04
B65D83/14 B67D5/22 G09F11/00 G09F11/04 G09F9/00
CPC: Y10S206/813 A61M15/0068 A61M15/0075 B65D50/061
A61J7/02 B65D51/24 A61J7/04 A61M15/00 A61M15/0086
A61M15/009 B65D50/041 B65D55/022 B65D2215/02
B65D2583/0409 G01F11/267 G06M1/04 G06M1/083 G06M1/22
G06M1/248 G09F11/23 A61M15/008
European: A61J7/02 A61J7/04 A61M15/00 A61M15/00P

B65D50/04B B65D50/06B B65D51/24 B65D55/02D G01F11/26C
G06M1/04 G06M1/08B G06M1/22 G06M1/24F G09F11/23
K61M15/00D4 K61M15/00D4B2C K61M15/00D4E K61M15/00K
K61M15/00P L65D215/02 L65D583/04M1
US: 116/285 116/308 116/309 116/312 116/318 128/200.14
128/200.23 128/200.24 128/202.22 128/204.18 128/205.23
206/459.1 206/459.5 206/534 206/813 215/203 215/216 215/217
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215/277 215/301 215/303 220/255 220/293 222/162 222/36
222/402.11



Family:

Publication number	Publication date	Application number	Application date
AT114587 E	19941215	AT19900301049T	19900201
AU199191727 A1	19920827	AU19910091727	19911122
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EP0720568 A4	19990127	EP19940928182	19940922
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US5638970 A	19970617	US19930033881	19930319
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Priority:

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US19950529135	19950915	US19950529139	19950915	US19970960515	19971029

Probable Assignee: ACCUHALE LLC

Assignee(s): (std): SENETITSUKUSU CORP ; SENETICS CORP ; SENETICS INC

Assignee(s): SENETICS CORP BOULDER COL US ; TETHYS HILL COMPANIES ; WEST PHARMACEUTICAL SERVICES OF DELAWARE INC ; SENETICS A CORP OF CO CORP ; ACCUHALE LLC ; BALLAS JEFFERY T ; BARKER ALLAN ; GARBY GAGE ; SENETEIKUSU INC

Inventor(s): (std): ALLAN BARKER ; ARAN BAAKAA ; BALLAS JEFFERY ; BALLAS JEFFERY T ; BALLAS JEFFREY T ; BARKER ALLAN ; BARKER ALLAN E ; BARKER ALLEN ; BROWN JR HOMER J ; GAGE GARBY ; GARBY GAGE ; GARBY GAGE L ; JEFFERY T BALLAS ; JEFFREY T BALLAS

Inventor(s): GAABII GEIJI ; BARKER ALLAN COLORADO US ; BAAKAA ARAN ; BALLAS

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; REINHOLD COHN AND PARTNERS

Designated states: AT AU BE BR CA CH CN CZ DE DK ES FI FR GB GR HU IE IS IT JP KR LI LU MC MX NL NO NZ PL PT RU SE SK TR

11) Family number: 4397278 (US4981233A)

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Title: Positive pressure closure lid for beverage can

Abstract: Source: US4981233A A positive pressure closure lid has a single stroke bellows pump for pressurizing the internal open space of an aluminum beverage can. The pressure cap has a bifurcated seal which curls around and tightly engages opposite sides of the rolled top rim of the beverage can. As the bellows pump is pressed downwardly, a bellows cap is held in the collapsed position by a pair of resilient snap retainers. The slight pressurization provided by the single stroke bellows pump retards the release of carbonated gases from the beverage, thus preserving the flavor of the beverage after the pressurized can has been opened. Increased internal pressure provided by the bellows pump reinforces the sealing engagement of an internal annular flange portion of the bifurcated seal.

Classifications:

International (IPC 8-9): B65B31/04 (Advanced/Invention); B65B31/04 (Core/Invention)

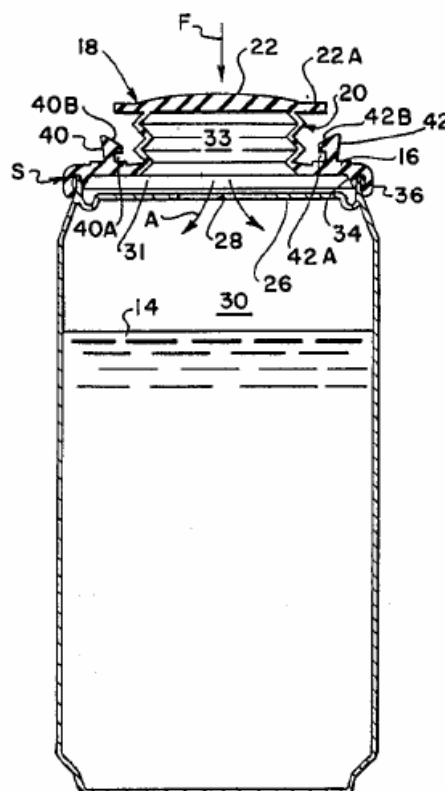
International (IPC 1-7): B65D51/24

CPC: B65B31/046

European: B65B31/04E

US: 141/65 215/228 220/212 220/306 220/787 220/793 D9/435 D9/448

PatBase - US4981233_A



Family:

Publication number	Publication date	Application number	Application date
US4981233 A	19910101	US19900561372	19900731

Priority:

US19890393571	19890814	US19900561372	19900731
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Probable Assignee: SCHEURER ROBERT S

Assignee(s): (std): SCHEURER ROBERT S

Inventor(s): (std): SCHEURER ROBERT S

Title: Breath-activated inhalation device

Abstract: Source: US5060643A Upon inhalation of air from the interior of a housing, a flexible diaphragm-type valve exposed to the ambient air surrounding the housing is moved inwardly due to the difference in ambient air pressure to that in the housing to expose the interior of the housing to the ambient air which is then drawn into the housing. Upon movement of the valve, it strikes a lever connected to a toggle linkage arrangement, causing the lever to pivot to break the toggle linkage, enabling a coil spring to extend and move a dispensing nozzle into contact with the valve stem of a medicant-containing, aerosol valve actuated, bottle. The valve stem is urged upwardly by the nozzle and moved into the interior of the bottle dispensing a dose of the medicant to be mixed with the inhaled air, which is inhaled by the user. The bottle is housed in a storage chamber having a reciprocally sliding cap mounted therein which can be manually moved to reset the nozzle and toggle linkage in its locked position, to prevent the nozzle from opening the aerosol valve and ready the device to dispense a dose of medicant once inhalation is repeated.

Classifications:

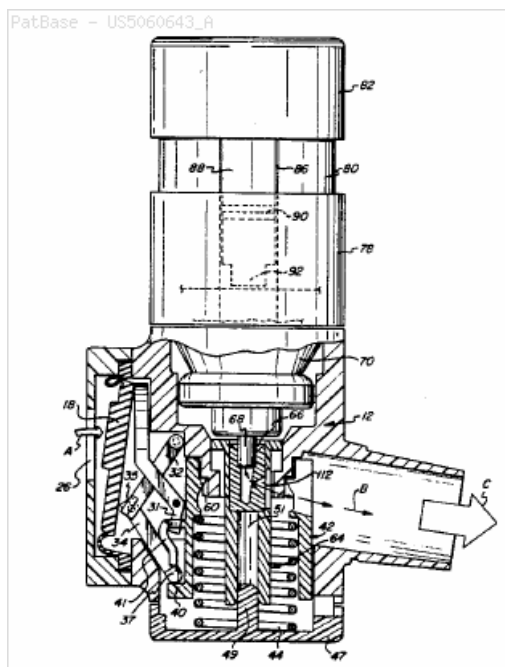
International (IPC 8-9): A61M15/00 (Advanced/Invention);
A61M15/00 (Core/Invention)

International (IPC 1-7): A61M11/00

CPC: A61M15/009 A61M15/0091

European: A61M15/00T K61M15/00P

US: 128/200.14 128/200.23



Family:

Publication number	Publication date	Application number	Application date
US5060643 A	19911029	US19900563927	19900807

Priority:

US19900563927 19900807

Probable Assignee: TENAX CORP

Assignee(s): (std): TENAX CORP

Inventor(s): (std): MULHAUSER PAUL ; RICH MICHAEL ; SPRANGER DOUGLAS M

Title: Actuator for breath-actuated medicament dispenser

Abstract: Source: GB2292891A The actuator, which fits on the housing 10 of a metered dose inhaler, comprises a latching device 18 having resilient latch members 22 and a piston 26 fitting partially within a cap 28 of the housing. The piston has a flange 26C co-operable with head portions 22B of the latch members and the housing wall has an abutment 38 engagable with head portions 22A of such members. The latching device also has depending legs 42 engagable with cams 44, 46 on hinged cap 16. A spring 48 acts between cap 28 and the latching device for axial movement of an aerosol can 12. When air is inhaled at mouthpiece 14, air flow through inlets 30 causes a pressure drop across the piston which moves downwardly to release the latch members which are then free to move inwardly and allow the spring to drive down the latching device and can. Closing of the cap 16 then resets the 20 device via cam rotation.

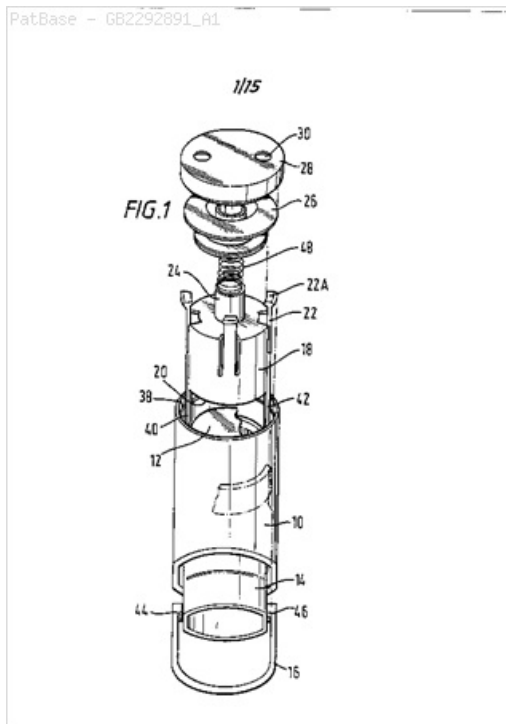
Classifications:

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

International (IPC 1-7): A61M15/00

CPC: A61M15/009 A61M15/0091

European: A61M15/00T K61M15/00P

**Family:**

Publication number	Publication date	Application number	Application date
GB2292891 A1	19960313	GB19940018064	19940907
GB9418064 A0	19941026	GB19940018064	19940907

Priority:

GB19940018064 19940907

Probable Assignee: NORTON HEALTHCARE LTD**Assignee(s):** (std): NORTON HEALTHCARE LTD**Assignee(s):** NORTON HEALTHCARE LIMITED**Inventor(s):** (std): CANE MICHAEL ROGER ; WOODWARD ADRIAN MICHAEL**Inventor(s):** MICHAEL ROGER CANE ; ADRIAN MICHAEL WOODWARD**14) Family number: 11743810** (US5819968A)

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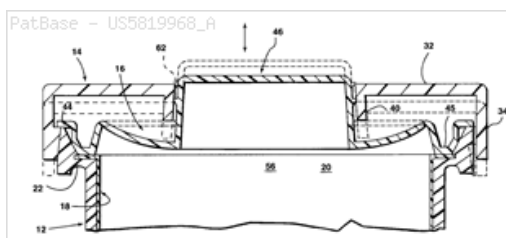
Title: Senior friendly child resistant medication containers

Abstract: Source: US5819968A A medication container has a tubular container body having an open upper end, and a cap detachably securable to the upper end of the container body by clockwise rotation relative thereto. The cap and the container body have mutually engageable stops preventing anti-clockwise opening rotation of the cap relative to the container body when the cap is in an upper position relative to the container body. A cap liner of resilient material is located within the cap and has a peripheral portion engageable with the upper end of the container body to close the upper end, the cap liner also having a central button portion projecting upwardly through a central aperture in the cap for manual engagement by a person wishing to open the container. The cap has a downward extending wall adjacent the aperture and engaged by the cap liner to maintain the cap in the upper position relative to the container body. Downward manual pressure on the central button portion of a cap liner causes resilient deformation of the cap liner away from the downwardly extending wall of the cap to permit the cap to be depressed from its upper position and thereby permit counter-clockwise opening rotation of the cap relative to the container body.

Classifications:**International (IPC 8-9):** B65D41/06 B65D50/04 B65D51/24

B65D55/02 (Advanced/Invention);

B65D83/04 (Advanced/Non-invention)

International (IPC 1-7): B65D41/06 B65D50/04 B65D55/02**CPC:** B65D41/06 B65D50/043 B65D2583/0409 B65D51/245**European:** B65D41/06 B65D50/04D B65D51/24F L65D583/04M1**US:** 116/309 215/222 215/230 215/274 215/332 215/346**Family:**

Publication number	Publication date	Application number	Application date
CA2231061 AA	19980906	CA19982231061	19980304
CA2231061 C	20031028	CA19982231061	19980304
GB2322852 A1	19980909	GB19980004699	19980305
GB2322852 B2	20000906	GB19980004699	19980305
GB9804699 A0	19980429	GB19980004699	19980305
US5819968 A	19981013	US19970812835	19970306
US5927528 A	19990727	US19980076802	19980513
US5934492 A	19990810	US19980035090	19980305
US5967350 A	19991019	US19980116480	19980716

Priority:

CA19982231061 19980304 US19970812835 19970306 US19980076802 19980513
US19980035090 19980305 US19980116480 19980716

Probable Assignee: JONES WILLIAM T**Assignee(s):** (std): JONES WILLIAM T**Assignee(s):** JONES WILLIAM THOMAS ; WILLIAM THOMAS JONES**Inventor(s):** (std): JONES WILLIAM THOMAS**Inventor(s):** WILLIAM THOMAS JONES**Agent(s):** GOWLING LAFLEUR HENDERSON LLP**15) Family number: 11193884** (US5823372A)

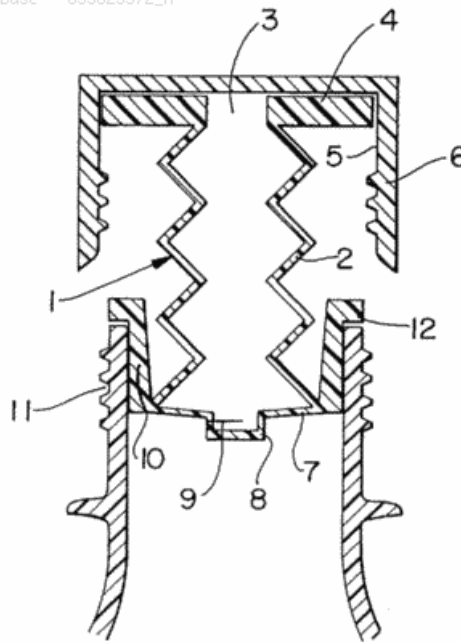
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Title: Pump insert for bottle caps

Abstract: Source: US5823372A A pump adapted for insertion between a cap and a carbonated-beverage bottle for re-pressurizing the interior of the bottle with air, the pump comprising: a hollow, resilient, expandable and compressible body, the body having a sealed upper end and a lower end; a flanged lip seal formed around an outer circumference of the upper end of the hollow body and adapted for engaging an inside recess of a standard bottle cap; the upper end of the hollow body having a hole therethrough; a membrane closing the lower end of the hollow body, the membrane containing a normally sealed opening adapted to open in response to an increase in pressure caused by compression of the hollow body; and, a collar extending from the lower end of the hollow body and adapted to sealingly engage a bottle neck upon engagement of the collar with the bottle neck.

Classifications:**International (IPC 8-9):** B65B31/04 (Advanced/Invention)**International (IPC 1-7):** B65D51/24**CPC:** B65B31/047 B65D51/24**European:** B65B31/04E1 B65D51/24**US:** 215/228 215/355

PatBase - US5823372_A

**Family:**

Publication number	Publication date	Application number	Application date
US5823372 A	19981020	US19980014849	19980128

Priority:

US19980014849 19980128

Probable Assignee: LEVINE ALAN**Assignee(s):** LEVINE ALAN**Inventor(s):** (std): LEVINE ALAN**16) Family number: 30138468** (US2002195102A)

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Title: DISPENSER WITH DOSES' COUNTER

Abstract: Source: US2002195102A There is provided a dispenser suitable for dispensing medicament, particularly medicament for use in the treatment of respiratory disorders. The dispenser comprises a housing (1) having a support (5); a container (2), locatable within said housing (1), having an outlet (3), wherein said container (2) dispenses through said outlet (3) in response to movement of the container (2), relative to the housing (1); and an actuation indicator having an indexing mechanism (13, 43) actuatable by movement of the container (2) relative to the housing (1). A couple mechanism (13, 43) is provided which couples the indexing mechanism (13, 43) to the container (2) to compensate for any variation in pre-actuation positionings of the indexing mechanism and container.

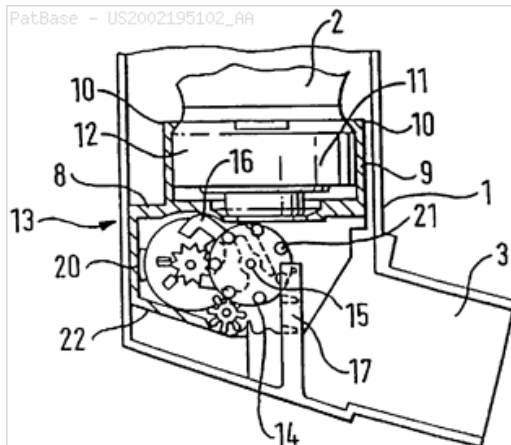
FDA Data:

Application number	Active ingredient	Proprietary name	Applicant	Date of approval
020983	ALBUTEROL SULFATE	VENTOLIN HFA	GLAXO GRP LTD	Apr 19, 2001
020983	ALBUTEROL SULFATE	VENTOLIN HFA	GLAXOSMITHKLINE	Apr 19, 2001
	FLUTICASONE PROPIONATE;			

021254	SALMETEROL XINAFOATE	ADVAIR HFA	GLAXO GRP LTD	Jun 8, 2006
021254	FLUTICASONE PROPIONATE; SALMETEROL XINAFOATE	ADVAIR HFA	GLAXOSMITHKLINE	Jun 8, 2006
021433	FLUTICASONE PROPIONATE	FLOVENT HFA	GLAXO GRP LTD	May 14, 2004

Classifications:

International (ipc 8-9): A47F1/035 A61K31/137 A61K31/56
A61K9/72 A61M1/08 A61M11/00 A61M15/00 A61M16/00 A61P11/06
A61P11/08 B05B9/04 B65D83/06 B65D83/54
G01F11/20 (Advanced/Invention);
A61M11/00 A61M15/00 (Advanced/Non-invention);
A61M15/00 (Core/Invention);
A61J B65D G01F (Subclass/Invention)
International (ipc 1-7): A61J A61M1/08 A61M11/00 A61M11/08
A61M15/00 A61M16/00 B05D12/00 B65D B65D83/14 B65D83/54
G01F G01F11/20
CPC: A61M15/0068 A61M15/0076 A61M15/008 A61M15/009
A61M15/0091
European: A61M15/00P K61M15/00D4 K61M15/00D4B2D
K61M15/00D4E K61M15/00T
US: 128/200.14 128/200.140S 128/200.18 128/200.23 128/200.230P
128/200.24 128/203.12 128/203.15 128/203.150P 128/203.23



Family:

Publication number	Publication date	Application number	Application date
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US2006289008 AA	20061228	US20060459048	20060721
US6360739 BA	20020326	US20000445659	20000331
US6431168 BA	20020813	US20000445673	20000313
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WO9856446 A1	19981217	WO1998EP03379	19980608
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ZA9804944 A	19991208	ZA19980004944	19980608

Priority:

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EP19980934918	19980608	GB19970011889	19970610	CA19982486894	19980608
US19980445658	19980608	KR19997011640	19991210	US20030465109	20030619
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US20060459048	20060721	WO1998EP03377	19980608	WO1998EP03378	19980608
WO1998EP03379	19980608				

Probable Assignee: GLAXO GROUP LTD

Assignee(s): (std): BONNEY STANLEY GEORGE ; BRAND PETER J ; BRAND PETER JOHN ; GAXO GROUP LTD ; GLAXO GROUP LTD ; RAND PAUL KENNETH ; GODFREY JAMES WILLIAM ; SMITHKLINE BEECHAM CORP ; GODFREY JAMES W ; RAND PAUL K

Assignee(s): GLAXO GROUP LTD GREENFORD ; GLAXO WELLCOME INC ; GLAXO GROUP GREENFORD LTD ; GLAXO GROUP GREENFORD MIDDLESEX LTD

Inventor(s): (std): BRAND PETER J ; BRAND PETER JOHN ; GEORGE BONNEY STRANLEY ; GODFEY JAMES WILLIAM ; GODFREY JAMES W ; GODFREY JAMES WILLIAM ; JAMES WILLIAM GODFREY ; JOHN BRAND PETER ; KENNETH RAND PAUL ; BONNEY STANLEY GEORGE ; PAUL KENNETH RAND ; RAND P K ; RAND PAUL K ; RAND PAUL KENETH ; RAND PAUL KENNETH ; PETER JOHN BRAND ; STANLEY GEORGE BONNEY ; WILLIAM GODFREY JAMES ; RAND KENNETH ; REND PAUL KENNETH ; RAND R K ; GODFREY WILLIAM ; BRAND P J ; BRAND JOHN ; BONNEY S G ; BONNEY GEORGE ; GODREY JAMES WILLIAM ; GODFREY J W

Inventor(s): BRAND PETER ; GODFREY JAMES ; RAND PAUL ; R K RAND ; PJ BRAND ; JW GODFREY ; RK RAND ; Rand ; S G BONNEY ; SG BONNEY ; PAUL KENNETH REND ; Peter John ; BONNEY STRANLEY GEORGE ; Brand ; P J BRAND ; P K RAND ; Paul Kenneth ; J W GODFREY ; James William ; Godfrey

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OGILVY RENAULT LLP SENCRL SRL; JOSE ANTONIO LLOREDA; RICE JASON NEALE; REINHOLD COHN AND PARTNERS; CHU SUNG MIN; CHANG SOO KIL; GLAXOSMITHKLINE, CORPORATE INTELLECTUAL PROPERTY MAI B475; GLAXOSMITHKLINE CORPORATE INTELLECTUAL PROPERTY MAI B475; J MICHAEL; JAMES P

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA

17) Family number: 11348163 (US5853109A)

© PatBase

Title: Dispensing structure with displaceable penetrator and bistable cover actuator

Abstract: Source: US5853109A A dispensing structure is provided for a container that has an opening to the container interior which can be initially closed by a membrane occluding the opening. The dispensing structure includes a body for extending around the container opening over the membrane. The body includes a peripheral wall and a flexible panel. The panel is connected with the peripheral wall, extends around a dispensing aperture, is normally biased to an outwardly displaced configuration as viewed from outside the body, and accommodates movement of the panel to an inwardly displaced configuration. The body also includes a penetrator extending inwardly from the panel for penetrating the membrane when the panel is in the inwardly displaced configuration. The dispensing structure also includes a cover for accommodating movement between a closed position over the body and an open position away from the closed position. The cover includes a peripheral frame mounted on the body, and a convex top. The convex top is connected with the peripheral frame, is normally biased to an outwardly convex configuration as viewed from outside the cover, and accommodates flexure of the top to a self-maintained, inverted, inwardly concave configuration for moving the body panel to the inwardly displaced configuration wherein the penetrator penetrates the membrane.

Classifications:

International (IPC 8-9): B65D47/08 B65D51/22 (Advanced/Invention);
B65D47/08 B65D51/18 (Core/Invention)

International (IPC 1-7): B67B7/00

CPC: B65D47/0809 B65D51/224 B65D2251/0025 B65D2251/0093

European: B65D47/08B1 B65D51/22 B65D51/22A1D

L65D251/00Y2J L65D251/00Y6M

US: 222/556 222/83

PatBase - US5853109_A

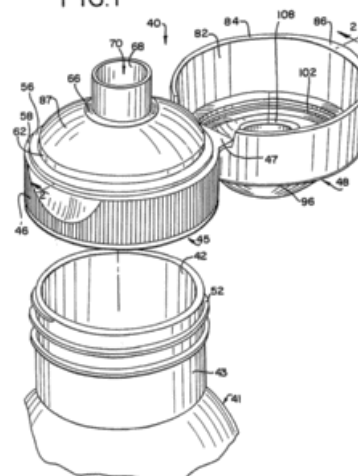
U.S. Patent

Dec. 29, 1998

Sheet 1 of 6

5,853,109

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
US5853109 A	19981229	US19980069480	19980429

Priority:

US19980069480 19980429

Probable Assignee: SEAQUIST CLOSURES FOREIGN INC

Assignee(s): (std): APTARGROUP INC

Assignee(s): SEAQUIST CLOSURES FOREIGN INC

Inventor(s): (std): ELLIOTT JOHN

18) Family number: 14916268 (US6907876B)

© PatBase

Title: DISPENSING APPARATUS COMPRISING A DOSAGE COUNTING DEVICE

Abstract: Source: US6907876B The present invention relates to dispensing apparatus comprising a housing (10) for receiving a pressurised container (15) containing product for dispensation, series of markings (172) indicative of quantities of product in the container, indicator means (160; 200) for indicating one of the markings of the series, and means for effecting relative movement between the indicator means and the series of markings on actuation of the pressurised container, so as to designate a subsequent marking of the series.

Classifications:

International (IPC 8-9): A61M15/00 B65D83/14 B65D83/34

B65D83/36 G06M1/22 G06M1/24 (Advanced/Invention);

B65D83/34 B65D83/36 (Advanced/Non-invention);

A61M15/00 B65D83/14 B65D83/34 B65D83/36

G06M1/00 (Core/Invention)

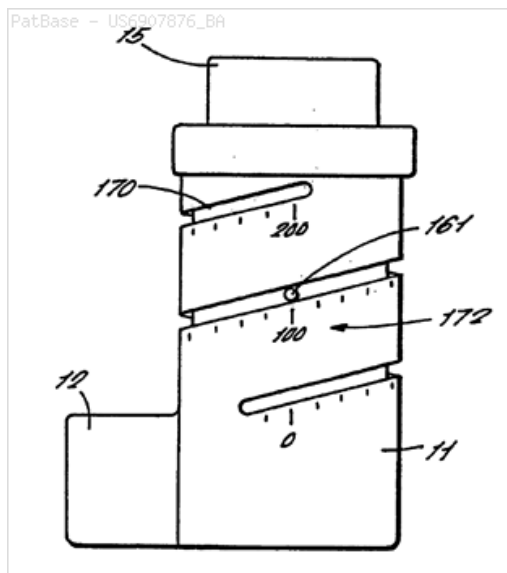
International (IPC 1-7): A61M11/00 A61M15/00 B65D83/14

B65D83/34 B65D83/36 G09F11/26

CPC: A61M15/0068 A61M15/0078 G06M1/04 A61M15/009 G06M1/22

G06M1/245 G06M1/246

European: A61M15/00P G06M1/04 G06M1/22 G06M1/24C



Family:

Publication number	Publication date	Application number	Application date
AT337986 E	20060915	AT20000914266T	20000328
AU200035661 A5	20001023	AU20000035661	20000328
CA2368702 AA	20011005	CA20002368702	20000328
CA2368702 C	20080129	CA20002368702	20000328
DE60030421 D1	20061012	DE20006030421	20000328
DE60030421 T2	20070208	DE20006030421T	20000328
EP1169245 A1	20020109	EP20000914266	20000328
EP1169245 B1	20060830	EP20000914266	20000328
GB2348928 A1	20001018	GB19990007928	19990407
GB2348928 B2	20011031	GB19990007928	19990407
GB9907928 A0	19990602	GB19990007928	19990407
JP2002541030 T2	20021203	JP20000609328T	20000328
JP3790955 B2	20060628	JP20000609328T	20000328
US6907876 BA	20050621	US20010958202	20011113
WO0059806 A1	20001012	WO2000GB01180	20000328

Priority:

GB19990007928 19990407 WO2000GB01180 20000328

Probable Assignee: CONSORT MEDICAL PLC

Assignee(s): (std): ALLSOP PAUL MICHAEL ; BESPAC PLC ; EAMES CHRISTOPHER JOHN ; CLARK DAVID JOHN

Assignee(s): SKF FRANCE ; BESPAC PLC KING S LYNN ; BESPAC PUBLIC LIMITED COMPANY ; CONSORT MEDICAL PLC ; BESPAC PLC BERGEN WAY NORTH LYNN INDUSTRIAL

Inventor(s): (std): CLARK DAVID JOHN ; CLARK JOHN ; CLARK JOHN DAVID ; EAMES CHRISTOPHER JOHN ; EAMES JOHN ; ALLSOP MICHAEL ; ALLSOP PAUL MICHAEL

Inventor(s): CHRISTOPHER JOHN EAMES ; JOHN DAVID CLARK ; PAUL MICHAEL ALLSOP ; DAVID JOHN CLARK

Agent(s): RIDOUT AND MAYBEE LLP; SMITH GAMBRELL AND RUSSELL LLP

Designated states: AE AG 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 DZ 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 MA 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

19) Family number: 14592487 (WO0128881A1)

© PatBase

Title: BI-STABLE STOPPER FOR CONTAINER

Abstract: The present invention relates to a glass container (4) comprising a neck (10), an opening (7) in the neck (10) and a cover member (1) closing off the opening (7), which cover member (1) comprises an inward side and an outward side, characterised in that, the cover member (1) comprises on its inward side a flexible closing element (8) that is expandable in the neck connected with an operating means (6) on the exterior or outward side of the cover member, the flexible closing element being operable by the operating means (6) between a first position in which the flexible closing element (8) is radially expanded towards the neck (10), and a second position in which the flexible closing element (8) is contracted inwards and away from the neck. By using the closure device according to the present invention, no special tools are needed to open the glass container. The closure device is preferably used in combination with carbonated beverages.

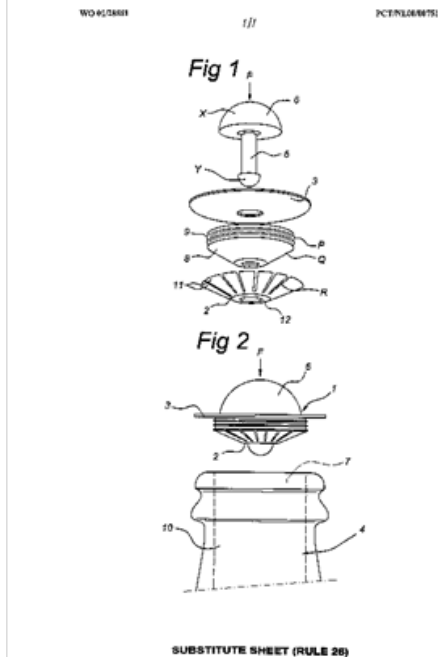
Classifications:

International (IPC 8-9): B65D39/12 (Advanced/Invention); B65D39/00 (Core/Invention)

International (IPC 1-7): B65D39/12

CPC: B65D39/12

European: B65D39/12

**Family:**

Publication number	Publication date	Application number	Application date
AU200113112 A5	20010430	AU20010013112D	20001018
GB200010569 A0	20000621	GB20000010569	20000502
GB9924619 A0	19991222	GB19990024619	19991018
WO0128881 A1	20010426	WO2000NL00751	20001018

Priority:

GB19990024619 19991018 GB20000010569 20000502 WO2000NL00751 20001018

Probable Assignee: SCIENT GENERICS LTD

Assignee(s): (std): CAUWOOD PETER DAVID ; FEARIS PAUL ; FREEMAN RICHARD FORD ; HEINEKEN TECH SERVICES ; LAITENBERGER PETER GEORG ; SINCLAIR KAY ASHLEY ; SCIENT GENERICS LTD

Assignee(s): HEINEKEN TECHNICAL SERVICES B V ; SCIENTIFIC GENERICS LIMITED ; HEINEKEN TECHNICAL SERVICES BV ; SCIENTIFIC GENERICS

Inventor(s): (std): CAUWOOD PETER DAVID ; FEARIS PAUL ; FREEMAN RICHARD FORD ; LAITENBERGER PETER GEORG ; SINCLAIR KAY ASHLEY

Inventor(s): PAUL FEARIS ; PETER DAVID CAUWOOD ; PETER GEORG LAITENBERGER ; RICHARD FORD FREEMAN ; KAY ASHLEY SINCLAIR

Designated states: AE AG 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 DZ 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ 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

20) Family number: 1556669 (US2004000306A)

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Title: SINGLE-DOSE OR DOUBLE-DOSE DEVICE FOR DISPENSING A FLUID PRODUCT

Abstract: Source: US2004000306A A fluid dispenser device comprising a body (1), a reservoir unit (3) comprising a reservoir containing one dose or two half-doses of fluid, a dispensing member such as a piston (8) mounted to move axially inside the reservoir (3) between a rest position and a dispensing position, and an actuating element (5) that is mounted to move between a rest position and an actuating position, said fluid dispenser device being characterized in that said actuating element (5) is disposed laterally, and has an end portion provided with a cam surface (6) which cooperates with said dispensing member (8) or said reservoir unit (3), said actuating element (5) being moved in a direction that is different from, and in particular substantially perpendicular to, the axial direction in which the dispensing member (8) moves relative to the reservoir.

Classifications:

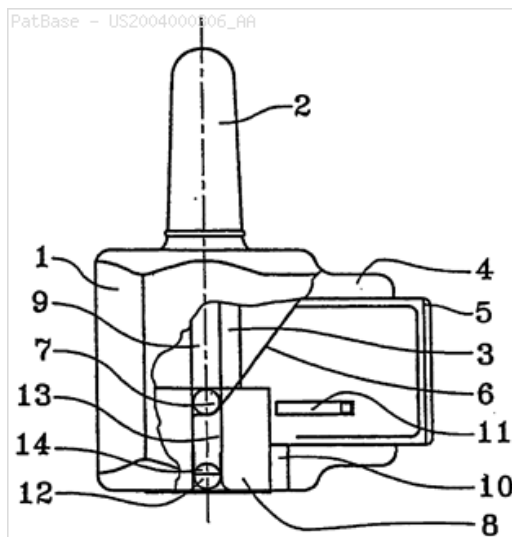
International (IPC 8-9): A61M11/00 A61M15/00 A61M15/08
A62C11/00 B05B11/00 B05B11/02 B65D83/00 B65D83/14
B65D88/54 (Advanced/Invention);
A61M11/00 A61M15/00 A61M15/08 A62C11/00 B05B11/00
B05B11/02 B65D83/00 B65D83/14 B65D88/00 (Core/Invention)

International (IPC 1-7): A61M11/00 A61M15/00 A61M15/08
A61M16/00 B05B11/02 B05B11/06 B65D47/34 B65D83/00
B65D83/14 B65D83/76

CPC: B65D83/0005 A61M15/0066 A61M15/009 A61M15/0091
B05B11/02 B05B11/3005 B05B11/3011 B65D83/38

European: A61M15/00P B05B11/02 B05B11/30C3 B05B11/30C5B
B65D83/00A B65D83/38 K61M15/00D2 K61M15/00T

US: 128/200.11 128/200.110S 128/200.12 128/200.120S 128/200.14
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128/203.12 128/203.19 128/204.12 128/204.120S 128/207.18
128/207.180S 222/321.7 239/333



Family:

Publication number	Publication date	Application number	Application date
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JP4711598 B2	20110629	JP20020522968T	20010828
JP4843182 B2	20111221	JP20020525006T	20010828
US2004000306 AA	20040101	US20030362561	20030303
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US7237549 BB	20070703	US20030362561	20030303
US7325544 BB	20080205	US20030362877	20030910
WO0217999 A1	20020307	WO2001FR02682	20010828
WO0220370 A1	20020314	WO2001FR02683	20010828

Priority:

FR20000011009 20000829 FR20000011425 20000907 WO2001FR02682 20010828
 WO2001FR02683 20010828

Probable Assignee: APTAR FRANCE SAS

Assignee(s): (std): BRUNA PASCAL ; STRADELLA GUISEPPE ; VALOIS S A S ; VALOIS SA ; VALOIS SAS

Assignee(s): VALOIS S P A ; VALOIS S A S LE NEUBOURG ; VALOIS S A ; APTAR FRANCE SAS

Inventor(s): (std): PASCAL BRUNA ; STRADELLA GIUSEPPE ; STRADELLA GUISEPPE ; BRUNA PASCAL

Inventor(s): GIUSEPPE STRADELLA ; GIUSEPPE STRADELLA

Agent(s): SUGHRUE MION PLLC

Designated states: AT BE CH CN CY DE DK ES FI FR GB GR IE IN IT JP LI LU MC NL PT SE TR US

21) Family number: 13555560 (US2004069301A)

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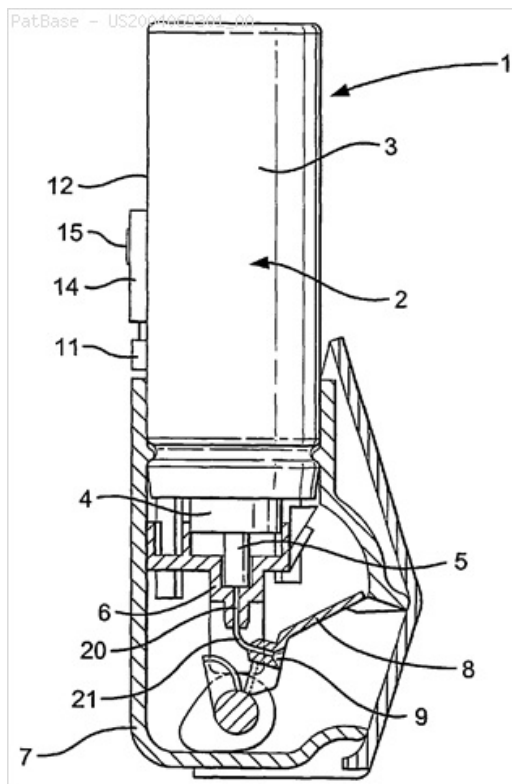
Title: DISPENSER FOR MEDICAMENT

Abstract: Source: US2004069301A A dispenser 1 has a source of medicament 2 with a can 3 and a metered dose valve 4. The outlet stem 5 of the valve is fitted to a junction block 6 in a body 7 of the dispenser to which a breath actuated dose release mechanism 8 is connected for release of the medicament through a nozzle 9. The can has an acoustic transducer 11 attached to its side wall 12, in intimate acoustic contact. An electronic package 14, comprising a detection circuit and a driver for a LCD display 15 are also mounted on the can wall, the transducer being connected to the circuit. The detection circuit is arranged to decrement a count shown on the LCD by one for every detection of noise of dispensing/metering of a dose from the can. The detection circuit is programmed to compare the spectrum of the noise with a known dose-dispensing spectrum and to decrement the counter according to the comparison.

Classifications:

International (IPC 8-9): A61M11/00 A61M15/00 A62B7/00

G01H1/12 (Advanced/Invention);
A61M11/00 A61M15/00 A62B7/00 G01H1/00 (Core/Invention)
International (IPC 1-7): A61M11/00 A61M15/00
CPC: A61M15/008 A61M15/0091 A61M15/009 G01H1/12
European: A01J5/08 A61M15/00T D06F69/04 G01H1/12
K61M15/00D4E K61M15/00P
US: 128/200.23 128/205.23



Family:

Publication number	Publication date	Application number	Application date
AU2002228158 AA	20020806	AU20020228158	20020124
DE60246657 D1	20141106	DE20026046657	20020124
DK1357965 T3	20141215	DK20020710103T	20020124
EP1357965 A1	20031105	EP20020710103	20020124
EP1357965 B1	20140924	EP20020710103	20020124
ES2524912 T3	20141215	ES20020710103T	20020124
GB200101945 A0	20010307	GB20010001945	20010125
GB200103856 A0	20010404	GB20010003856	20010216
JP2004522514 T2	20040729	JP20020559101T	20020124
PT1357965 T	20141204	PT20020710103T	20020124
US2004069301 AA	20040415	US20030470234	20031103
US7047964 BB	20060523	US20020470234	20020124
WO02058771 A1	20020801	WO2002GB00285	20020124

Priority:

EP20020710103 20020124 GB20010001945 20010125 GB20010003856 20010216
WO2002GB00285 20020124

Probable Assignee: CLINICAL DESIGNS LTD

Assignee(s): (std): BACON RAYMOND J ; CLINICAL DESIGNS LTD

Assignee(s): TRELOAR JAMES ; BACON RAYMOND JOHN ; BAKER WILLIAM EXCELL BAKER GEORGE HENRY

Inventor(s): (std): BACON RAYMOND JOHN

Inventor(s): BACON RAYMOND JOHN EMSWORTH ; BAKER GEORGE HENRY ; BAKER WILLIAM EXCELL ; RAYMOND JOHN BACON ; TRELOAR JAMES

Agent(s): MARKS AND CLERK LUXEMBOURG LLP; GORDON KIRSTEEN HELEN; VALLEJO JUAN PEDRO; ALFRED A; WARE FRESSOLA VAN D SLUYS AND ADOLPHSON LLP

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE 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 MC MD MG MK ML MN MR MW MX MZ 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 ZM ZW

22) Family number: 13557492 (US2004149773A)

© PatBase

Title: DOSAGE COUNTING DEVICES

Abstract: Source: US2004149773A Apparatus comprising a housing (1) defining a portion (2) for receiving in use a dose-dispensing container (20), the housing containing a dose counter comprising at least one annular counter member (241, 242) and a helix-like coil (243), wherein one or more projections (255) are provided on the helix-like coil for operatively connecting the helix-like coil and the at least one annular counter member, wherein movement of the received dose-dispensing container acts to compress the helix-like coil to thereby rotate the at least one annular counter member.

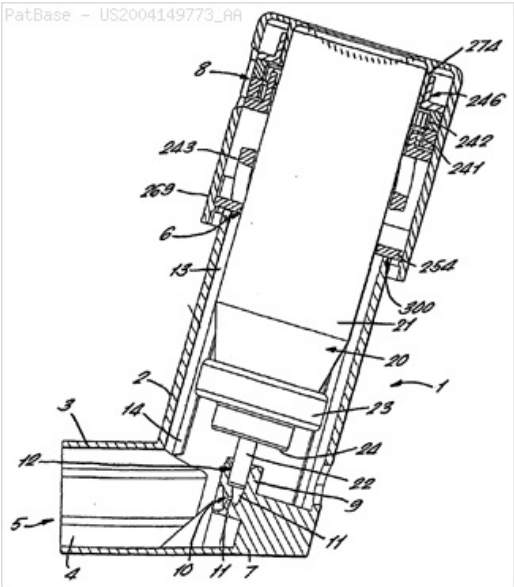
Classifications:

International (IPC 8-9): A61M15/00 B67D5/22 B67D7/22 G06M1/00
G06M1/04 (Advanced/Invention);
A61M15/00 B67D7/22 G06M1/00 (Core/Invention)

International (IPC 1-7): A61J A61M15/00 B67D5/22 G06M1/04
G06M1/16

CPC: A61M15/0068 A61M15/0073 A61M15/009 G06M1/00
G06M1/041

European: A61M15/00P G06M1/00 G06M1/04B K61M15/00D4



Family:

Table with 4 columns: Publication number, Publication date, Application number, Application date. It lists various patent entries including AT317996 E, AU2002234751 AA, DE60209211 D1, etc.

Priority:

GB20010004557 20010223 WO2002GB00814 20020222

Probable Assignee: CONSORT MEDICAL PLC

Assignee(s): (std): BESPAC PLC ; BESPAC PLC KING S LYNN ; BRACE GEOFF ; OUYANG TIANHONG

Assignee(s): CONSORT MEDICAL PLC

Inventor(s): (std): BRACE GEOFF ; OUYANG TIANHONG

Inventor(s): TIANHONG OUYANG ; GEOFF BRACE

Agent(s): SMITH GAMBRELL AND RUSSELL LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

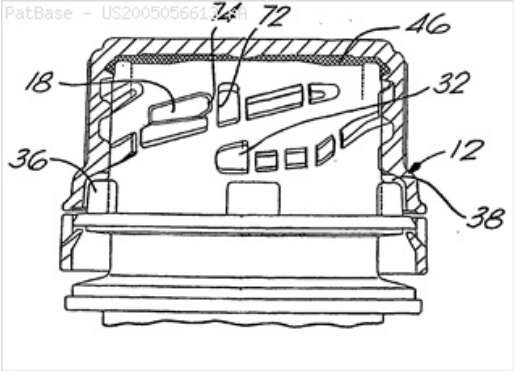
23) Family number: 29502100 (US2005056613A) © PatBase

Title: USER-FRIENDLY BOTTLE AND CLOSURE THREAD ASSEMBLY

Abstract: Source: US2005056613A The invention provides a threaded container closure assembly includes: a container neck having an opening; a closure for said neck, the closure having a base portion and a skirt portion; a first screw thread on the neck, said first screw thread comprising one or more first thread segments; a second screw thread on an inner surface of the skirt of the closure, said second screw thread comprising one or more second screw thread segments; said first and second screw threads being configured to enable a user to secure, remove and resecure the closure into a sealing position on the neck by rotation of the closure on the neck; and wherein said first thread segments are shorter than said second thread segments; and wherein the second thread segments are each made up of one or more radially spaced projecting portions, each said portion extending radially no more than about 60 degrees around the closure skirt.

Classifications:

International (ipc 8-9): A47G19/22 B65D41/04 B65D41/34 B65D51/16 (Advanced/Invention); A47G19/22 B65D41/04 B65D41/34 B65D51/16 (Core/Invention) International (ipc 1-7): A47G A47G19/22 B65D B65D41/04 B65D41/34 B65D41/36 B65D51/16 CPC: B65D41/045 B65D41/0471 B65D41/3428 B65D51/1688 European: B65D41/04D2 B65D41/04E B65D41/34C1 B65D51/16E3 US: 215/307 215/329 215/330 220/196 220/296



Family:

Publication number	Publication date	Application number	Application date
AT307065 E	20051115	AT20020779692T	20021119
AT307767 E	20051115	AT20020777555T	20021119
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Priority:

GB20010027836 20011120 WO2002GB05183 20021119 WO2002GB05184 20021119

Probable Assignee: BEESON AND SONS LTD

Assignee(s): (std): BEESON AND SONS LTD ; KING ROGER MILNER ; BISAN EHND SANZ LTD

Assignee(s): BEESON AND SONS LIMITED ; BEESON AND SONS LTD RICKMANSWORTH ; BEESON AND SONS LTD STOKES POGES ; BISAN EHND SANZ LIMITED

Inventor(s): (std): KING ROGER M ; KING ROGER MILNER ; MILNER KING ROGER ; ROGER MILNER KING ; KING RODZHER MILNER

Inventor(s): KING ROGER

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE OR SENCRL SRL LLP; STEPHEN B SALAI ESQ HARTER SECREST AND EMERY LLP; BRIAN B; STEPHEN B; HARTER SECREST AND EMERY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: ELECTROCHEMICAL CELL HAVING VENTING CURRENT COLLECTOR AND SEAL ASSEMBLY

Abstract: Source: US2003118892A A low profile collector and seal assembly for sealing the open end of a container of an electrochemical cell and providing venting of pressurized gases. An electrochemical cell has a can with a closed bottom end and an open top end, positive and negative electrodes disposed in the can, and a collector and seal assembly disposed in the open top end of the can for closing the open top end of the can. The collector and seal assembly includes a current collector and an annular seal that move relative to each other from a sealed position to a vented position when the internal cell pressure reaches a pressure threshold to vent pressurized gases.

Classifications:

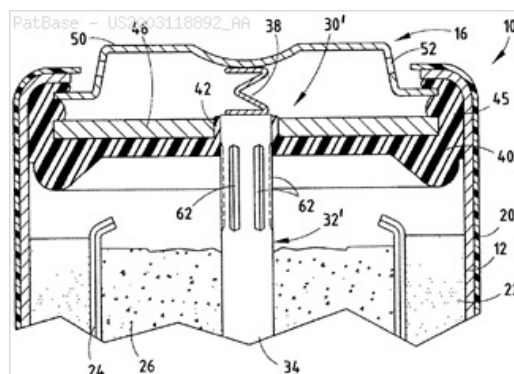
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International (IPC 1-7): H01M2/02 H01M2/04 H01M2/08 H01M2/12 H01M2/26 H01M2/30 H01M4/75 H01M6/08

CPC: H01M2/1276 H01M2/0413 H01M2/1229 H01M2/1294

European: H01M2/04B2B H01M2/12C2 H01M2/12S H01M2/12W Y02E60/12

US: 429/161 429/161S 429/171 429/181 429/181P 429/185 429/185S 429/54 429/56 429/56S 429/57 429/82 429/82P 429/82S

**Family:**

Publication number	Publication date	Application number	Application date
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AU2002361648 AA	20030709	AU20020361648	20021212
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AU2002361648 AH	20030709	AU20020361648	20021212
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DE60243488 D1	20121011	DE20026043488	20021217
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IN265610 B	20150306	IN2004DN01564	20040604
JP2005514730 T2	20050519	JP20030555601T	20021212
JP4421896 B2	20100224	JP20030555601T	20021217
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US2003118892 AA	20030626	US20010034687	20011220
US2005053832 AA	20050310	US20040970323	20041021
US6855454 BB	20050215	US20010034687	20011220
US7122270 BB	20061017	US20040970323	20041021
WO03054983 A2	20030703	WO2002US39744	20021212
WO03054983 A3	20031113	WO2002US39744	20021212
WO03054983 C1	20040708	WO2002US39744	20021212

Priority:

EP20020797287 20021217 US20010034687 20011220 US20040970323 20041021
WO2002US39744 20021212 WO2002US39744 20021217

Probable Assignee: ENERGIZER BRANDS LLC

Assignee(s): (std): EVEREADY BATTERY INC ; RAY ROBERT E JR ; WU JAMES XIXIAN

Assignee(s): JPMORGAN CHASE BANK NA AGENT AS ; RAY ROBERT E ; ENERGIZER BRANDS LLC ; ENERGIZER BRANDS LLC NDGED STAATES DELAWARE ST LOUIS ; EVEREADY BATTERY CO INC ; EVEREADY BATTERY COMPANY INC

Inventor(s): (std): RAY JR ROBERT E ; RAY ROBERT E ; RAY ROBERT E JR ; WU JAMES XIXIAN ; XIXIAN RAY ROBERT E WU JAMES ; XIXIAN WU JAMES

Inventor(s): WU JAMES XIXIAN NORTH OLMSTED ; RAY ROBERT E JR STRONGSVILLE ; ROBERT E ; ROBERT E JR RAY ; WU JAMES ; RAY ROBERT ; JAMES XIXIAN WU ; JR ROBERT E ; RAY

Agent(s): VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWALTEN U RECHTSANWALTEN MBB ; VON KREISLER SELTING WERNER ; ROBERT W WELSH EVEREADY BATTERY CO INC ; RUSSELL H

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

25) Family number: 31143952 (US2007163576A)

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Title: CAN FIXTURE

Abstract: Source: US2007163576A A dispenser (1) comprises a can (2) and body (3). The can is an aluminum extrusion with a valve crimped into its mouth, the valve having an outlet spout (4). The crimped region (5) of the can surrounding the valve has a lesser diameter than the can has through the main part (6) of its length. The body has a mouthpiece (11) with a pivotal cover (12) drivingly connected to a cam (13). This bears on the underside of junction member (14), into a socket (15) of which the spout 4 fits. A breath actuated dose release mechanism (16) is provided. The body has a tubular section (7) for receiving the necked down region (5) of the can. A printed paper label (21) is wrapped around the joint between the body and the can to unite the can to the body in position such that when the cover is opened, a dose is dispensed by the cam (13) lifting the junction member and depressing the spout.

Classifications:**International (IPC 8-9):** A61M11/00 A61M15/00 A61M16/00

B05D7/14 B65D83/00 B65D83/16 (Advanced/Invention);

A61M11/00 A61M15/00 B05D7/14 B65D83/00

B65D83/16 (Core/Invention);

A61M B65D (Subclass/Non-invention)

International (IPC 1-7): A61M15/00 B65D83/16**CPC:** Y10S128/913 A61M15/0026 A61M15/0093 A61M15/009

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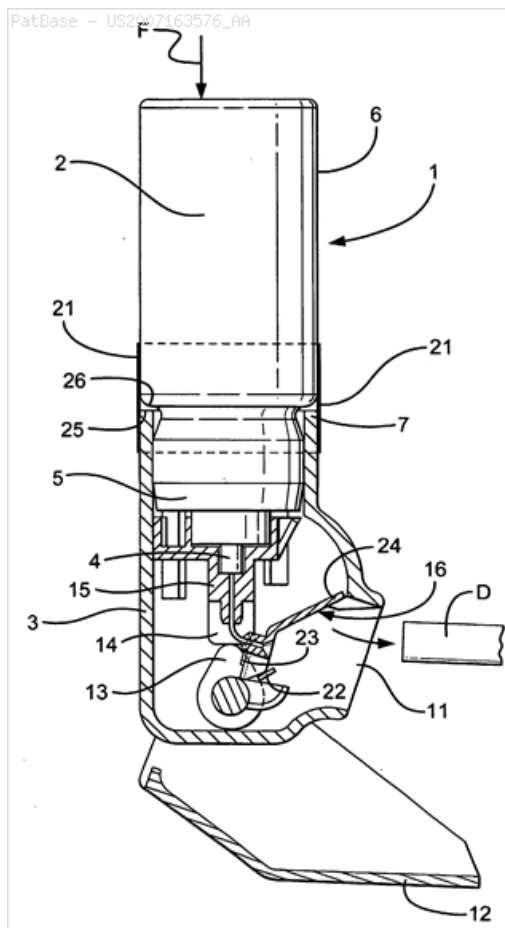
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US: 128/200.12 128/200.14 128/200.21 128/200.23 128/200.230P

128/203.12 128/203.15 128/203.150S 128/913 156/73.1 206/38

206/446 206/459.5 206/460 206/497 222/402.1 222/402.2

**Family:**

Publication number	Publication date	Application number	Application date
AU2003212529 AA	20031008	AU20030212529	20030317
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EP2143458 A1	20100113	EP20090172349	20030317
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GB200227489 A0	20021231	GB20020027489	20021126
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GB2401321 A1	20041110	GB20040020197	20030317
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JP4422794 B2	20100224	JP20030577985T	20030317
MXPA04009152 A1	20051214	MX2004PA09152	20030317
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US2007163576 AA	20070719	US20030508688	20030317
US7814900 BB	20101019	US20030508688	20030317
WO03080161 A1	20031002	WO2003GB01102	20030317
ZA200407573 A	20060628	ZA20040007573	20040921

Priority:EP20030708349 20030317 GB20020006811 20020322 WO2003GB01102 20030317
GB20020027489 20021126**Probable Assignee:** CLINICAL DESIGNS LTD**Assignee(s):** (std): CLINICAL DESIGNS LTD ; LINICAL DESIGNS LTD ; BACON RAYMOND J ; CLINICAL DESINGS LTD**Assignee(s):** BACON RAYMOND JOHN ; CLINICAL DESIGNS LIMITED ; LINICAL DESIGNS LIMITED ; CLINICAL DESINGS LIMITED ; BACON JOHN RAYMOND**Inventor(s):** (std): JOHN BACON RAYMOND ; BACON RAYMOND J ; BACON JOHN RAYMOND ; BACON RAYMOND JOHN ; BACON RAYMOND**Inventor(s):** RAYMOND JOHN BACON**Agent(s):** HODGKINSON MCINNES PATENTS; IP SOLVED ANZ PTY LTD; DENNISON ASSOCIATES; WILLIAMS GARETH OWEN; WARE FRESSOLA VAN DER SLUYS AND , ADOLPHSON LLP; WARE FRESSOLA VAN D SLUYS AND ADOLPHSON LLP; ALFRED A

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE 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 MC MD MG MK ML MN MR MW MX MZ 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 ZM ZW

26) Family number: 28444904 (US2007062522A)

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Title: DISPENSER

Abstract: Source: US2007062522A An inhalant dispenser has a cover 3 pivotally carried on a body 6. The cover has a cam arrangement for lifting a junction member 41 against the action of the spring in an inhalant can C. Lifting of the junction member cocks a breath actuated dose release mechanism. The latter includes a flap 61 in the breath path. The flap is carried on the junction member and is arranged to release a hinged member 48 by action of latches 70 on the flap and sears on the hinged member.

Classifications:

International (ipc 8-9): A61M11/00 A61M15/00 B05D7/14

B65D83/14 B65D83/40 F16K7/06 (Advanced/Invention);

A61M11/00 A61M15/00 B05D7/14 B65D83/14 B65D83/40

F16K7/00 (Core/Invention);

A61M (Subclass/Invention);

A61M F16K (Subclass/Non-invention)

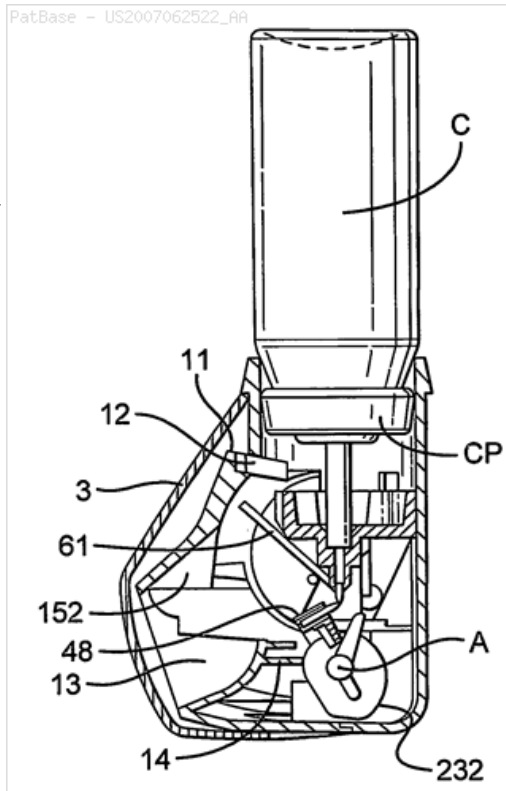
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European: A61M15/00T K61M15/00A20C K61M15/00P K61M15/00T4

US: 128/200.14 128/200.17 128/200.23 128/203.12 128/203.13

128/203.14 128/203.15 222/402.1 222/494 222/528 239/337



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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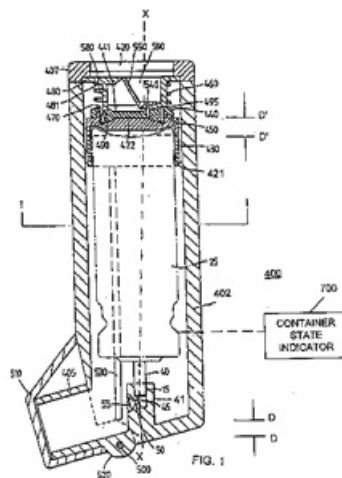
Probable Assignee: CLINICAL DESIGNS LTD**Assignee(s):** (std): BACON RAYMOND J ; BOWMAN NICHOLAS JOHN ; CLINICAL DESIGNS LTD ; MCDERMONT IAIN GRIERSON ; CLINICAL DESIGNS LTD**Assignee(s):** BACON JOHN RAYMOND ; CLINICAL DESIGNS LIMITED ; CLINICAL DESIGNS LIMITED ; BACON RAYMOND JOHN**Inventor(s):** (std): BACON JOHN RAYMOND ; BACON RAYMOND ; BACON RAYMOND J ; BACON RAYMOND JOHN ; BACON RAYNOLD JOHN ; BOWMAN NICHOLAS ; BOWMAN NICHOLAS JOHN ; GRIERSON BACON RAYMOND JOHN BO ; GRIERSON MCDERMONT IAN ; IAIN GRIERSON MCDERMONT ; JANSSEN JANE ; JOHN BACON RAYMOND ; JOHN BOWMAN NICHOLAS ; KELLY WILLIAM E ; LEWIS DAVID NEAL ; MCDERMONT IAIN GRIERSON ; MCDERMONT IAN GRIERSON ; NICHOLAS JOHN BOWMAN ; RAYMOND JOHN BACON ; SCHUTTE GERRIT ; WESTERHOF HENK**Inventor(s):** WILLIAM E KELLY ; JANE JANSSEN ; HENK WESTERHOF ; DAVID NEAL LEWIS ; GERRIT SCHUTTE ; BACON RAYMOND JOHN BOWMAN NICHOLAS JOHN ; BACON RAYMOND JOHN BOWMAN NICHOLAS JOHN MCDERMONTI ; BACON RAYMOND JOHN BOWMAN NICHOLAS JOHN MCDERMONTIAN GRIERSON**Agent(s):** HODGKINSON MCINNES PATENTS; IP SOLVED ANZ PTY LTD; DENNISON ASSOCIATES; BROOKS NIGEL SAMUEL ET AL; REINHOLD COHN AND PARTNERS; WARE FRESSOLA VAN DER SLUYS AND , ADOLPHSON LLP; WARE FRESSOLA VAN D SLUYS AND ADOLPHSON LLP; ALFRED 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 NA 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**27) Family number: 30428375 (US2005081846A)**

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Title: MEDICAMENT DISPENSING DEVICE WITH A DISPLAY INDICATIVE OF THE STATE OF AN INTERNAL MEDICAMENT RESERVOIR**Abstract:** Source: US2005081846A A metered dose inhaler for use with a removable pressurized aerosol canister, or reservoir, having a display for indicating to a user the state of the canister. A memory device on the canister or a housing which houses the canister stores information indicative of doses dispensed from, or remaining in, the canister. That information is processed to provide and display information representative of the state of the canister.**Classifications:****International (ipc 8-9):** A61L9/04 A61M11/00 A61M11/02 A61M11/06 A61M13/00 A61M15/00 A61M15/06 A61M16/00 A62B27/00 A62B7/00 A62B9/00 B05D7/14 B65D83/06 G08B3/00 G08B5/00 G08B5/36 (Advanced/Invention); A61M11/00 A61M15/00 A61M15/06 A61M16/00 A62B27/00 A62B7/00 A62B9/00 B05D7/14 B65D83/06 G08B3/00 G08B5/00 G08B5/22 (Core/Invention); A61M (Subclass/Invention)**International (ipc 1-7):** A61L9/04 A61M A61M0/00 A61M11/00 A61M11/02 A61M15/00 A61M15/06 A61M16/00 A62B27/00 A62B7/00 A62B9/00 B05D7/14 B65D83/06 G08B3/00 G08B5/00**CPC:** A61M15/008 G08B5/36 A61M15/0065 A61M15/009 A61M15/0091**European:** A61M15/00D A61M15/00P A61M15/00T G08B5/36 K61M15/00D4E**US:** 128/200.19 128/200.21 128/200.23 128/200.230P 128/203.12 128/203.15 128/205.23

PatBase - US2005081846_AA

Patent Application Publication Apr. 21, 2005 Sheet 1 of 18 US 2005/081846 A1

**Family:**

Publication number	Publication date	Application number	Application date
AU2004218347 AA	20040916	AU20040218347	20040304
AU2004218347 BB	20090910	AU20040218347	20040304
BRPI0408076 A	20060214	BR2004PI08076	20040304
CA2518117 AA	20050902	CA20042518117	20040304
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CN1780655 A	20060531	CN200480011214	20040304
CN1780655 B	20101215	CN200480011214	20040304
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GB200401649 A0	20040225	GB20040001649	20040126
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JP5369133 B2	20131218	JP20110083757	20110405
KR101124007 B1	20120323	KR20057016538	20040304
KR20050114637 A	20051206	KR20057016538	20040304
MXPA05009485 A1	20051026	MX2005PA09485	20040304
NO20054537 A	20051201	NO20050004537	20051003
NO20054537 A0	20051003	NO20050004537	20051003
NO336841 B1	20151116	NO20050004537	20051003
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PT1599243 T	20140217	PT20040717367T	20040304
SI1599243 T1	20140530	SI20040032124T	20040304
US2005081846 AA	20050421	US20040793150	20040304
US7331340 BB	20080219	US20040793150	20040304
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WO04078236 A2	20040916	WO2004US06511	20040304
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Priority:

EP20040717367 20040304 GB20030004905 20030304 GB20040001649 20040126
US20030452260 20030305 US20040793150 20040304 JP20060509046 20040304
US20030452260P 20030305 WO2004US06511 20040304 JP20060509046T 20040304

Probable Assignee: IVAX CORP

Assignee(s): (std): BARNEY BRIAN ; IVAX CORP ; NORTON HEALTHCARE LTD

Inventor(s): (std): BARNEY BRIAN ; BRIAN BARNEY

Inventor(s): BARNEY BRAIN ; BARNEY BRIAN GREAT DUNMOW

Agent(s): GRIFFITH HACK; SIM AND MCBURNEY; COTTAM DAVID WILLIAM; DE ELZABURU ALBERTO; REINHOLD COHN AND PARTNERS; WEBB AND CO; ITO TAKAMI; MASUI CHUJI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; ONO SHINJIRO; MARK G LAPPIN PC MCDERMOTT WILL AND EMERY; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP

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 NA 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

28) Family number: 31481843 (US2005011515A)

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Title: INHALER WITH BREATH ACTUATED DOSE COUNTER

Abstract: Source: US2005011515A A device is disclosed for dispensing a fluid supplied from an external fluid source. The device comprises a transducer adapted to receive a fluid from the fluid source, and a collapsible linkage coupling the transducer and the fluid source. The linkage has a collapsible joint inhibiting discharge of the fluid source when in a locked orientation. The device further comprises a movable member coupled to the linkage such that inhalation forces on the device cause the linkage to collapse thereby discharging the fluid from the fluid source. The device may further include a dose counter coupled to the fluid source for registering the amount of doses administered from the fluid source.

Classifications:

International (IPC 8-9): A61M11/00 A61M15/00 A61M16/00

B05B1/00 B05B11/02 B05B7/00 (Advanced/Invention);

A61M11/00 A61M15/00 A61M16/00 B05B1/00 B05B11/02

B05B7/00 (Core/Invention);

A61M (Subclass/Invention)

International (IPC 1-7): A61M11/00 A61M15/00

CPC: A61M15/0026 A61M15/0075 G06M1/041 G06M1/083

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A61M15/0095

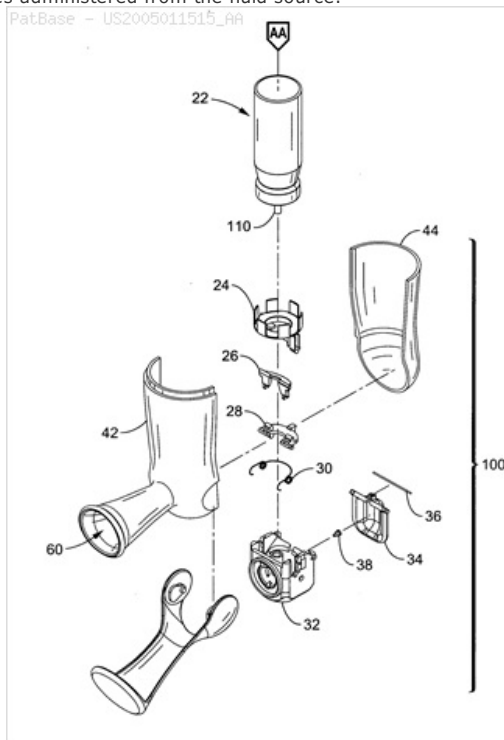
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K61M15/00A20C2 K61M15/00D4 K61M15/00D4B2C K61M15/00D4E

K61M15/00P K61M15/00T4

US: 128/200.14 128/200.23 128/200.230P 128/201.15 128/203.15

128/203.150S



Family:

Publication number	Publication date	Application number	Application date
AU2004257456 AA	20050127	AU20040257456	20040713

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CA2632774 AA	20080606	CA20062632774	20061208
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DK1962933 T3	20150817	DK20060820487T	20061208
EP1646417 A1	20060419	EP20040743399	20040713
EP1962933 A1	20080903	EP20060820487	20061208
EP1962933 B1	20150527	EP20060820487	20061208
ES2543961 T3	20150826	ES20060820487T	20061208
HK1119608 A1	20151127	HK20080113276	20081205
HK1119608 A3	20090313	HK20080113276	20081205
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IN01436MN2008 A	20090626	IN2008MN01436	20080709
IN266666 B	20150529	IN2006DN00723	20060213
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JP2009518095 T2	20090507	JP20080543913T	20061208
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SI1962933 T1	20151030	SI20060031963T	20061208
US2005011515 AA	20050120	US20040888445	20040709
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US7703454 BB	20100427	US20040888445	20040709
WO05007226 A1	20050127	WO2004GB03058	20040713
WO07066140 A1	20070614	WO2006GB04624	20061208
ZA200600477 A	20070530	ZA20060000477	20040713
ZA200805953 A	20091028	ZA20080005953	20061208

Priority:

AU20060323446 20061208	AU20130204795 20130412	US20030487293 20030714
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US20040888445 20040709	US20030487493P 20030714	

Probable Assignee: CIPLA EUROPE NV

Assignee(s): (std):	I CHE LEE JAMES ; LEE JAMES I ; NEO INHALATION LTD ; VORTRAN MEDICAL TECHNOLOGY 1 I ; NEOLAB LTD ; SAIED REZA ; THOMPSON GLEN M ; THOMSON GLEN M ; CIPLA EUROP NV ; NEO INHALATION TECHNOLOGIES LT ; NEO INHALATION PRODUCTS LTD ; VORTRAN MEDICAL TECHNOLOGY
Assignee(s):	NEOLAB LIMITED ; NEO INHALATION TECHNOLOGIES LIMITED ; CIPLA EUROPE NV ; NEO INHALATION TECHNOLOGIES LTD ; NEO INHALATION PRODUCTS LIMITED ; VORTRAN MEDICAL TECHNOLOGY 1 INC
Inventor(s): (std):	GLEN M THOMPSON ; I CHE LEE JAMES ; LEE JAMES I ; LEE JAMES I CHE ; LEE JAMES I CHEE ; REZA SAIED ; SAIED REZA ; THOMPSON GLEN M ; THOMSON GLEN ; THOMSON GLEN M ; JAMES I CHE LEE
Inventor(s):	LEE JAMES ; THOMSON GLEN M CITRUS HEIGHTS ; SAIED REZA CARMICHAEL ; I CHE LEE JAMES SACRAMENTO ; GLEN M THOMSON
Agent(s):	PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY; AIRD AND BERLIS IP PARTNERSHIP LTD; PATENTANWAELTE LIPPERT STACHOW AND PARTNER; BENNETT ADRIAN ROBERT J ET AL; BENNETT ADRIAN ROBERT J; VALLEJO JUAN PEDRO; NAGAI HIROSHI; JOHN P OBANION OBANION AND RITCHEY LLP; JOHN P
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 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 MG MK ML MN MR 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 YU ZA ZM ZW

29) Family number: 30286030 (US2007251950A)

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Title: DISPENSER AND COUNTER

Abstract: Source: US2007251950A The dispenser has a body (1), with a mouthpiece cover (2). Opening of the cover urges a junction member (3) towards a source (4) of a medicament to be released as a dose by pressing a spout (5) of the source inwards of the source. The source is supported by a cap (11) clipped to the end of a source-enclosing barrel (12) with internal splines (10). The barrel is welded (15) to the main to part (16) of the body at a position determined by the extension of the source towards the distal end (17) of the barrel when the cover is open, the welding position being determined by a plug (18) simulating the cap and its bush.

Classifications:

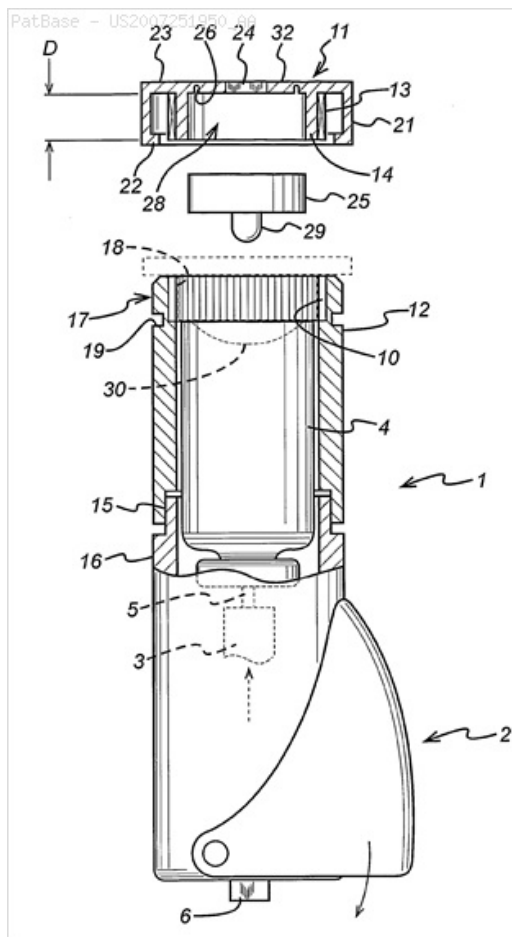
International (ipc 8-9): A61J7/00 A61M11/00 A61M13/00 A61M15/00 A62B7/00 A62B9/00 B65D83/04 B67D7/22 G09F9/00 (Advanced/Invention); A61J7/00 A61M13/00 A61M15/00 B65D83/00 B65D83/04 (Core/Invention)

International (ipc 1-7): A61J7/00 A61M15/00

CPC: A61M15/0025 A61M15/009 B65D83/0409 B65D2203/12 B65D2583/0404 B65D2583/0481

European: A61M15/00P B65D83/04A K61M15/00A20C K61M15/00D1A2 L65D203/12 L65D583/04M L65D583/04T2B

US: 116/284 116/307 116/309 116/312 116/313 128/200.14 128/200.15 128/200.21 128/200.23 128/203.12 128/204.18



Family:

Publication number	Publication date	Application number	Application date
DE602004039065 D1	20121018	DE200460039065T	20041210
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EP1699511 B1	20120822	EP20040805985	20041210
ES2392256 T3	20121207	ES20040805985T	20041210
GB200328859 A0	20040114	GB20030028859	20031212
IN02084CN2006 A	20070706	IN2006CN02084	20060612
IN252068 B	20120427	IN2006CN02084	20060612
JP2007513666 T2	20070531	JP20060543620T	20041210
JP2011218213 A2	20111104	JP20110172468	20110807
JP4871137 B2	20120208	JP20060543620T	20041210
PT1699511 T	20121105	PT20040805985T	20041210
SI1699511 T1	20121231	SI20040031958T	20041210
US2007251950 AA	20071101	US20040582656	20041210
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WO05056090 A1	20050623	WO2004GB05165	20041210

Priority:

EP20040805985 20041210 GB20030028859 20031212 JP20060543620 20041210
WO2004GB05165 20041210

Probable Assignee: CLINICAL DESIGNS LTD

Assignee(s): (std): BACON RAYMOND J ; BACON RAYMOND JOHN ; CLINICAL DESIGNS LTD

Assignee(s): CLINICAL DESIGNS LIMITED

Inventor(s): (std): BACON RAYMOND J ; BACON RAYMOND JOHN

Inventor(s): BACON RAYMOND JOHN PETERSFIELD ; RAYMOND JOHN BACON ; BACON RAYMOND

Agent(s): MARKS AND CLERK LUXEMBOURG LLP; GORDON KIRSTEEN HELEN; CARPINTERO MARIO; WARE FRESSOLA VAN DER SLUYS AND , ADOLPHSON LLP; WARE FRESSOLA MAGUIRE AND BARBER LLP

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 NA 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

30) Family number: 30285835 (US2007246042A)

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Title: DOSE COUNTER FOR DISPENSERS

Abstract: Source: US2007246042A A dose counter for use with an inhaler comprising a container for medicament equipped with a reciprocal actuation means to dispense a dose of medicament therefrom, the dose counter comprising: a fixed ratchet member, a trigger member constructed and arranged to undergo reciprocal movement co-ordinated with the reciprocal

movement between the actuation means and the container, said reciprocal movement comprising an outward stroke and a return stroke, a counter member constructed and arranged to undergo a predetermined counting movement each time a dose is dispensed, the counter member being biased towards the ratchet and trigger members and being capable of counting motion in a direction generally orthogonal to the direction of reciprocal movement of the trigger member, the counter member comprising: a first region for interaction with the trigger member which comprises at least one inclined surface which is engaged by the trigger member during its outward stroke causing the counter member to undergo counting motion, and a second region for interaction with the ratchet member which comprises at least one inclined surface which is engaged by the ratchet member during the return stroke of the trigger member causing the counter member to undergo further counting motion to complete said predetermined counting movement.

Classifications:

International (ipc 8-9): A61M11/00 A61M15/00 B65D83/14

B67D7/22 B67D7/24 G01F15/06 G06M1/04

G06M1/08 (Advanced/Invention);

A61M15/00 (Advanced/Non-invention);

A61M11/00 A61M15/00 B65D83/14 B67D7/22 G01F15/06

G06M1/00 (Core/Invention)

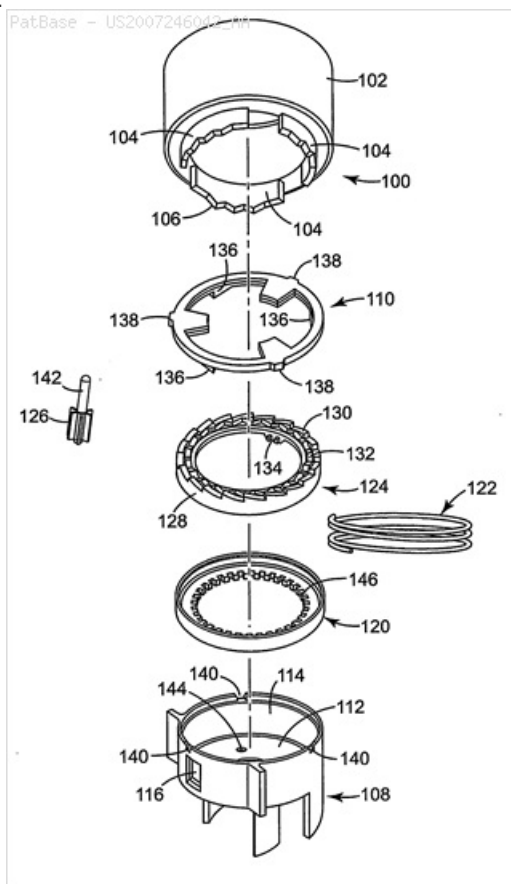
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CPC: A61M15/0073 A61M2202/064 A61M2015/0068 A61M15/0068

A61M15/0065 A61M15/009 G06M1/041

European: A61M15/00D A61M15/00P G06M1/04B K61M15/00D4B2B K61M202/06B

US: 128/200.14 128/200.140P 128/205.23 222/36



Family:

Publication number	Publication date	Application number	Application date
AU2004304935 AA	20050707	AU20040304935	20041130
AU2004304935 BB	20110127	AU20040304935	20041130
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CA2548714 C	20130730	CA20042548714	20041130
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EP1697235 A4	20120222	EP20040812453	20041130
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GB200328635 A0	20040114	GB20030028635	20031210
IN02034CN2006 A	20070608	IN2006CN02034	20060609
IN253549 B	20120803	IN2006CN02034	20060609
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JP4847340 B2	20111228	JP20060543865T	20041130
US2007246042 AA	20071025	US20040596325	20041130
US8740014 BB	20140603	US20040596325	20041130
WO05060535 A2	20050707	WO2004US39926	20041130
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Priority:

EP20040812453 20041130 GB20030028635 20031210 WO2004US39926 20041130

Probable Assignee: 3M INNOVATIVE PROPERTIES CO

Assignee(s): (std): 3M INNOVATIVE PROPERTIES CO ; GREENLEAF DAVID J ; JONES SARAH ; KRISTENSEN LEE A ; PURKINS GRAHAM R

Assignee(s): 3M INNOVATIVE PROPERTIES CO SAINT PAUL ; 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): GREENLEAF DAVID J ; JONES SARAH ; KRISTENSEN LEE A ; PURKINS GRAHAM R

Inventor(s): SARAH JONES ; LEE A KRISTENSEN ; PURKINS GRAHAM ; KRISTENSEN LEE ; DAVID J GREENLEAF ; GRAHAM R PURKINS ; GREENLEAF DAVID

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; ROBIC; CARPMAEL ROBERT MAURICE CHARLES; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO

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 NA 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

Title: CONTAINER CLOSURE ASSEMBLY WITH INTERNAL NECK THREAD

Abstract: Source: US2008017642A A container neck and closure assembly, wherein the container neck (10) comprises a first screw thread (14) on an internal surface thereof and the closure (12) comprises a cylindrical plug (32) for insertion into the container neck, said plug having a second screw thread (36, 37) on an outer surface thereof for engagement with the first screw thread to secure and resecure the closure on the neck.

Classifications:

International (IPC 8-9): B65D1/02 B65D39/08 B65D41/04

B65D41/36 B65D51/16 B65D51/28 (Advanced/Invention);

B65D1/00 B65D1/02 B65D39/00 B65D41/04 B65D51/16

B65D51/24 (Core/Invention);

B65D (Subclass/Invention)

International (IPC 1-7): B65D1/02 B65D39/08 B65D51/16

B65D51/28

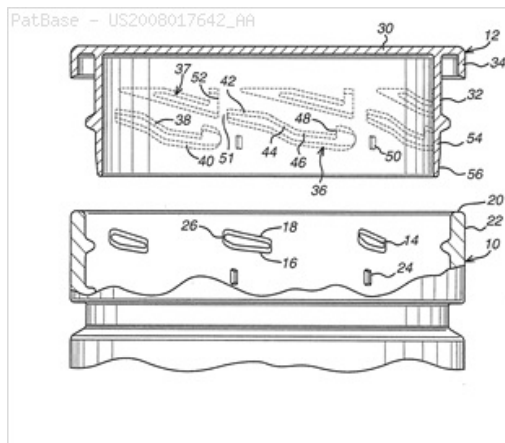
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B65D51/28

European: B65D1/02D1B B65D39/08 B65D51/16E3 B65D51/28

L65D101/00A3C

US: 215/330 215/331 220/285 220/296 220/300



Family:

Publication number	Publication date	Application number	Application date
AT512074 E	20110615	AT20050775646T	20050822
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EP1796979 A2	20070620	EP20050775646	20050822
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GB200418662 A0	20040922	GB20040018662	20040820
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JP4836953 B2	20111214	JP20070526575T	20050822
MX2007001945 A1	20070807	MX20070001945	20050822
RU2007110167 A	20080927	RU20070110167	20050822
RU2377167 C2	20091227	RU20070110167	20050822
US2008017642 AA	20080124	US20050573862	20050822
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WO06018660 A2	20060223	WO2005GB03270	20050822
WO06018660 A3	20060406	WO2005GB03270	20050822

Priority:

EP20050775646 20050822 GB20040018662 20040820 WO2005GB03270 20050822

Probable Assignee: BEESON AND SONS LTD

Assignee(s): (std): BEESON AND SONS LTD ; BISAN EHND SANZ LTD ; KING ROGER MILNER

Assignee(s): BEESON AND SONS RICKMANSWORTH LTD ; BISAN EHND SANZ LIMITED ; BEESON AND SONS LIMITED

Inventor(s): (std): KING RODZHER MILNER ; KING ROGER MILNER ; MILNER KING ROGER ; KING ROGER M

Inventor(s): ROGER MILNER KING ; KING ROGER

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT ATTORNEYS; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; BOEHMERT AND BOEHMERT ANWALTSPARTNERSCHAFT MBB PATENTANWALTE RECHTSANWALTE; JAMES ANTHONY CHRISTOPHER W P; OHSHIMA MASATAKA; STEPHEN B SALAI ESQ HARTER SECREST AND EMERY LLP; HARTER SECREST AND EMERY LLP; STEPHEN B; BRIAN B

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 KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: SUBSTANCE SOURCE

Abstract: Source: US2008135576A A source of gaseous, gas borne or droplet substance having: an inner pressurised

container (1), a substance-release valve (2) device sealed across an end of the container (1), a spout (4) displaceable inwards of the container (1) against a spring of the valve (2) device for substance release; the source also includes: an outer enclosure enclosing the inner container along its length (12), at least partially its end (14) remote from the spout (4) and partially at its spout end (19), the outer enclosure ADN the inner container (1) being arranged to react force for displacement of the spout (4) on substance release; a counter (20) accommodated within the outer enclosure for counting substance release displacements of the spout (4); and a window (22) in the outer enclosure for viewing the count of the counter (20).

Classifications:

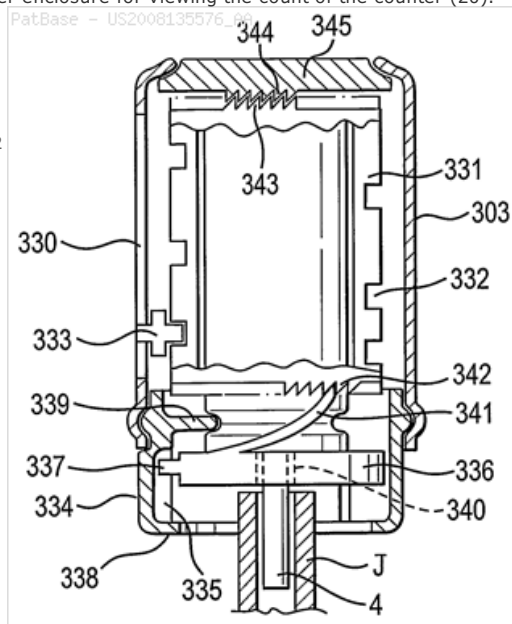
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International (IPC 1-7): G06M1/16

CPC: A61M15/0075 G06M1/22 G06M1/041 G06M1/045 A61M15/0073 A61M15/0021 A61M16/12 A61M16/20 A61M15/0025 A61M2202/02 A61M2202/04 A61M2205/123 A61M15/0076 A61M15/008 A61M15/009 G06M1/083

European: A61M15/00P G06M1/08B G06M1/22 K61M15/00D4B2C K61M15/00D4B2D K61M15/00D4E

US: 128/200.23 128/203.12 222/36 222/36P 222/38 222/38S



Family:

Publication number	Publication date	Application number	Application date
AU2005305701 AA	20060526	AU20050305701	20051117
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IL183231 A0	20070819	IL20070183231	20070515
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JP4975635 B2	20120711	JP20070542093T	20051117
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TW200722122 A	20070616	TW20050143811	20051212
TWI546093 B	20160821	TW20050143811	20051212
US2008135576 AA	20080612	US20050667957	20051117
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ZA200704060 A	20080528	ZA20070004060	20070518

Priority:

EP20050812617	20051117	GB20040025518	20041119	US20070667957	20070517
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WO2005GB04430	20051117				

Probable Assignee: CLINICAL DESIGNS LTD

Assignee(s): (std): BACON RAYMOND ; CLINICAL DESIGNS LTD

Assignee(s): CLINICAL DESIGNS LIMITED

Inventor(s): (std): BACON RAYMOND ; BACON RAYMOND JOHN ; RAYMOND BACON

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; GORDON KIRSTEEN HELEN; PEARL COHEN ZEDEK LATZER BARATZ; ONO SHINJIRO; CHIBA AKIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; MIYAMAE TORU; NIXON AND VANDERHUYE PC

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 KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: DISPENSER

Abstract: Source: US2010012115A A medicated inhalant dispenser has a plastics material body having a mouthpiece. A pressurized, inhalant source has a canister and a sprout which is moved towards the canister for release of a dose from the canister. The sprout is accommodated in a junction member, which is movable by a cam connected to a pivotal cover for the mouthpiece. Opening of the cover sets a breath actuatable kink valve, having a nozzle through which the inhalant is released and a breath flap actuation. Opening also causes the junction member to be lifted for dose dispensing into the kink valve. Breathing in releases the dose for inhalation. A closed sleeve is provided for abutment of the end of the canister as the junction member is moved towards the canister. Between the canister end and an end of the closed sleeve, an adjustable abutment is provided.

Classifications:

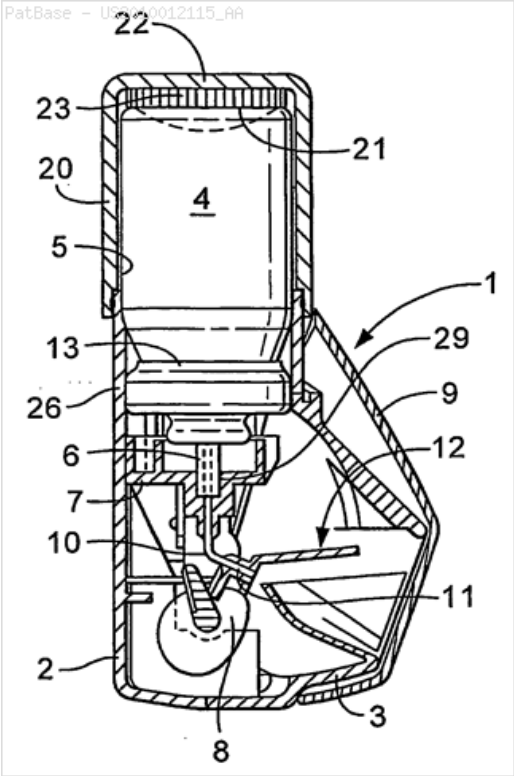
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A61M13/00 A61M15/00 (Core/Invention);
A61M (Subclass/Invention)

International (IPC 1-7): A61M15/00

CPC: A61M15/00 A61M15/0065 A61M15/0068 A61M15/009
A61M15/0091

European: A61M15/00 A61M15/00D A61M15/00P A61M15/00T
K61M15/00D4

US: 128/200.23 128/200.230P



Family:

Publication number	Publication date	Application number	Application date
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JP2013052255 A2	20130321	JP20120253719	20121119
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Priority:

EP20060779361 20060908 GB20050018400 20050909 JP20080529694 20060908
WO2006GB03344 20060908 JP20080529694T 20060908

Probable Assignee: CLINICAL DESIGNS LIMITED

Assignee(s): (std): BACON RAYMOND J ; BACON RAYMOND JOHN ; CLINICAL DESIGNS LTD

Assignee(s): CLINICAL DESIGNS LIMITED

Inventor(s): (std): JOHN BACON RAYMOND ; BACON RAYMOND JOHN

Inventor(s): RAYMOND JOHN BACON ; BACON RAYMOND

Agent(s): HODGKINSON MCINNES PATENTS; IP SOLVED ANZ PTY LTD; DENNISON ASSOCIATES; BROOKS NIGEL SAMUEL; GORDON KIRSTEEN HELEN; LAMBERT AND ASSOCIATES PLLC

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 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 MG MK ML MN MR 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: DRIVE UNIT FOR DOSAGE COUNTER

Abstract: Source: US2011259324A A nebuliser, particularly an MDI, with a counter is proposed. By means of a guide track or inclined plane and an associated guide element, an axial movement occurring on actuation of the nebuliser is partly converted into a rotary movement for driving a counting ring, using an annular rigid drive element with axial teeth. In this way a simple and operationally reliable construction can be achieved, in which even incomplete actuations are counted.

Classifications:

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

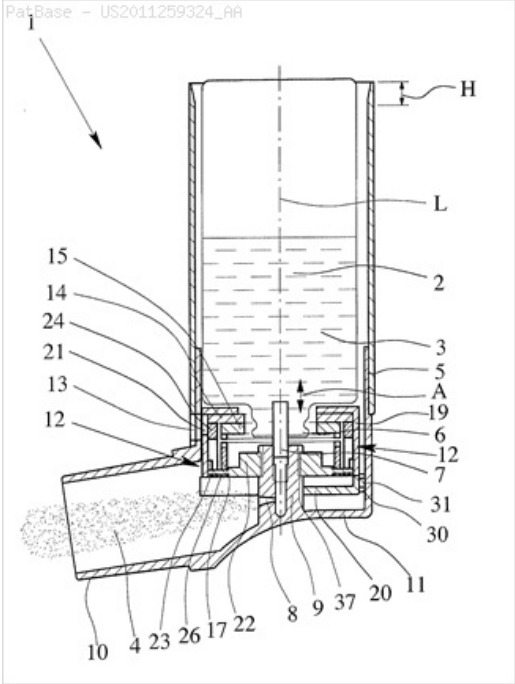
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A61M15/00 B05B11/00 G06M1/00 (Core/Invention)

CPC: A61M15/009 A61M15/0073

European: A61M15/00P K61M15/00D4B2B

US: 128/200.14 128/200.140P 128/203.12 222/36



Family:

Publication number	Publication date	Application number	Application date
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US2011259324 AA	20111027	US20090059724	20090826
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Priority:

DE200810044770 20080828 EP20090782237 20090826 WO2009EP61023 20090826

Probable Assignee: BOEHRINGER INGELHEIM PHARMA

Assignee(s): (std): BOEHRINGER INGELHEIM INT ; BOEHRINGER INGELHEIM PHARMA ; HOCHRAINER DIETER

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

Inventor(s): (std): HOCHRAINER DIETER

Agent(s): FETHERSTONHAUGH AND CO; HAMMANN HEINZ; SIMON ELKE ANNA MARIA; MICHAEL P; MARY ELLEN 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COUNTER

Abstract: Source: US2012111323A A counter comprising: a first ring member having first indicia and a second ring member having second indicia, each of said first and second ring members being rotatable in increments about a common axis, one or both of said first and second indicia indicating a count; a drive mechanism for rotating said first ring member; and a coupling mechanism for releasably coupling said first ring member to said second ring member, to allow said first and second ring members to rotate cooperatively when coupled and to allow independent rotating of said first ring member when not coupled; wherein said coupling mechanism comprises first and second engagement means, said first engagement means being movable radially outwardly and radially inwardly relative to said axis.

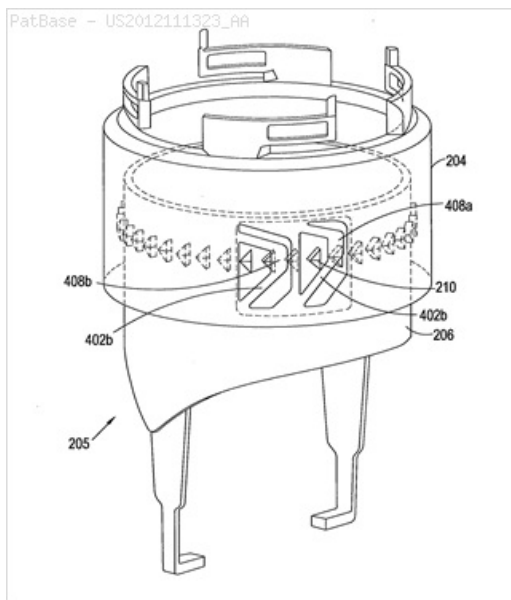
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A61M15/00 A61M16/00 G06M1/00 G06M1/04 G06M1/08 G06M1/16

G06M1/24 (Advanced/Invention);

A61M15/00 (Advanced/Non-invention);
A61M15/00 G06M1/00 (Core/Invention);
G06M1/00 (Core/Non-invention);
A61M G06M (Subclass/Invention)
International (IPC 1-7): A61M15/00
CPC: A61M15/0065 A61M15/0073 A61M15/009 G06M1/163
G06M1/248 G06M1/083 G06M1/241 G06M1/041
European: A61M15/00D A61M15/00P G06M1/16B G06M1/24F
K61M15/00D4B2B
US: 1/1 128/203.12 128/203.120P 235/103 235/103S



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US2012111323 AA	20120510	US20100138591	20100310
US2015314087 AA	20151105	US20150797318	20150713
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Priority:

AU20100222734	20100310	AU20150258184	20151117	CA20152754789	20151105
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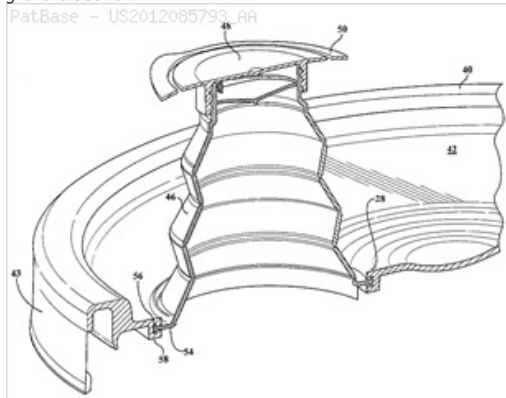
Probable Assignee: EURO CELTIQUE SA**Assignee(s):** (std): BACON RAYMOND ; EURO CELTIQUE S A ; EURO CELTIQUE SA ; MCDERMONT IAIN ; MCDERMONT IAIN GRIERSON**Assignee(s):** EURO-CELTIQUE S.A. ; EURO CELTIQUE S A LU**Inventor(s):** (std): BACON RAYMOND ; IAIN MCDERMONT ; MCDERMONT IAIN ; RAYMOND BACON ; MCDERMONT IAIN GRIERSON MCDERMONT ; MCDERMONT IAIN GRIERSON**Inventor(s):** IAIN GRIERSON MCDERMONT**Agent(s):** FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; MARKS AND CLERK; GORDON KIRSTEEN HELEN; SANFORD TCOLB AND CO; NIXON AND VANDERHUYE PC; MARKS AND CLERK 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 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**36) Family number: 50912553 (US2012085793A)**

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Title: COLLAPSIBLE SPOUT FOR A CONTAINER AND METHOD OF MANUFACTURE THEREOF**Abstract:** Source: US2012085793A The combination of molded plastic closure for an open top container and an extensible plastic spout adapted to be joined to the deck of the closure in either of two ways. In one way, the spout is molded with a U-shaped peripheral channel which receives a downwardly extending flange surrounding an aperture in the deck. In another way, the spout is pre-molded and then used as an insert when molding the closure.**Classifications:****International (IPC 8-9):** B29C33/42 B29C67/00 B29C70/84

B29D16/00 B29D23/18 B65D25/44 B65D47/06 B67D3/00

B67D7/06 (Advanced/Invention)

CPC: B65D25/44 B65D47/063**European:** B65D25/44 B65D47/06A1**US:** 222/529 222/530 264/259 264/259S 264/328.1 264/328.100S**Family:**

Publication number	Publication date	Application number	Application date
CA2739976 AA	20120406	CA20112739976	20110511
CA2739976 C	20140429	CA20112739976	20110511
US2012085793 AA	20120412	US20110048986	20110316
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Priority:

CA20112739976	20110511	US20100898768	20101006	US20110048986	20110316
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Probable Assignee: LETICA CORP**Assignee(s):** (std): CORBETT RANDALL J ; LETICA CORP ; SELINA JOHN R**Inventor(s):** (std): CORBETT RANDALL J ; SELINA JOHN R**Agent(s):** RIDOUT AND MAYBEE LLP; YOUNG BASILE HANLON AND MACFARLANE PC**37) Family number: 50465925 (US2014311484A)**

© PatBase

Title: DISPENSER CAP ARRANGEMENT**Abstract:** Source: US2014311484A The present invention relates to a dispenser cap arrangement for enclosing a portion of a dispenser of a medicament. In particular, the present invention relates to a dispenser cap arrangement, a dispenser cap a dispenser cap closure device, a method of closing a dispenser, and a closure arrangement. The dispenser cap arrangement comprises a dispenser cap (71) comprising a hollow body having a lower open end for engaging with a body portion of a dispenser, and an upper open end for receiving a cap closure device for closing the upper open end, the upper open end comprising an engageable portion; and a cap closure device, comprising: an upper cap closure portion (101) for engaging with the upper open end of the dispenser cap to close the upper open end of the dispenser cap; a lower cap closure portion (102) for engaging with the engageable portion to secure the cap closure device to the dispenser cap; and a bistable portion (111, 112, 113) connecting the upper cap portion and the lower cap closure portion, the bistable portion being switchable between a first stable form in which the bistable portion is extended, and a second stable form in which the bistable portion is collapsed, wherein, when the bistable portion is in the second stable form, the upper cap closure portion engages with the upper open end of the dispenser cap to close the dispenser cap.**Classifications:****International (IPC 8-9):** A61J1/00 A61J1/14 A61M A61M13/00

A61M15/00 B65D39/00 B65D39/10 B65D43/16



Publication number	Publication date	Application number	Application date
AR088589 AA	20140618	AR2012P104069	20121031
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Priority:

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Probable Assignee: EURO CELTIQUE SA

Assignee(s): (std): EURO CELTIQUE SA ; GORDON KIRSTEEN

Assignee(s): PRIOR PETER ; DUIGNAN CATHAL ; EURO CELTIOUE S A

Inventor(s): (std): DUIGNAN CATHAL ; PRIOR PETER

Inventor(s): CATHAL DUIGNAN ; PETER PRIOR

Agent(s): MARKS AND CLERK AUSTRALIA; FB RICE; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; MARKS AND CLERK; LUZ CLEMENCIA DE PAEZ; GORDON KIRSTEEN HELEN; MARKS AND CLERK SINGAPORE LLP; MARKS AND CLERK 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 SC SD SE SG SI SK SL SM SN ST SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

38) Family number: 50468778 (US2014290648A)

Title: DISPENSER

Abstract: Source: US2014290648A The present invention relates to dispensers, in particular to dispensers for dispensing a dose of a gaseous, gas borne or droplet substance from a substance source and dispensers comprising dosage counters. The present invention therefore provides: a dispenser for dispensing a dose of a gaseous, gas borne or droplet substance from a substance source (C), the dispenser comprising: a body for receiving a substance source, the body having a mouthpiece; a

junction member slideably arranged in the body for movement in a longitudinal axis of the body to release a dose of a substance from a substance source, the junction member comprising a socket for receiving a spout of a substance source; a dispenser driver (A) for moving the junction member in the longitudinal axis of the body to release a dose of a substance from a substance source, the dispenser driver comprising a pivot shaft and a cam arranged on the shaft, the dispenser driver being arranged within the body such that rotation of the pivot shaft causes the cam to rotate and apply a force to the junction member so as to move the junction member in the longitudinal axis; and a cam follower slideably arranged within the body, the cam follower comprising a base and a substantially rigid protrusion extending from the base, the protrusion being arranged between the dispenser driver and the junction member such that a force applied by the cam of the dispenser driver to the protrusion causes the cam follower to slideably move in the longitudinal axis of the body and apply a force to the junction member so as to release a dose of a substance from a substance source.

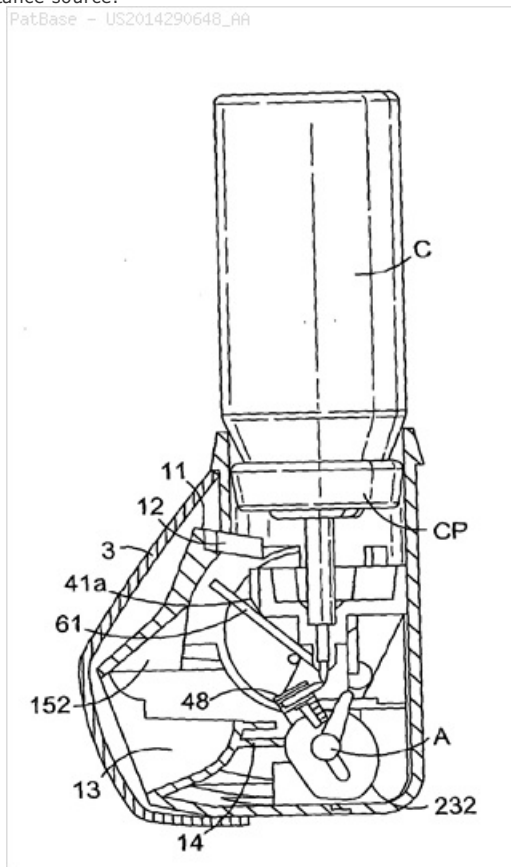
Classifications:

International (IPC 8-9): A61M A61M11/00 A61M11/04 A61M13/00 A61M15/00 A61M16/12 B65D83/14 (Advanced/Invention); A61M (Subclass/Invention)

CPC: A61M16/12 A61M15/0021 A61M11/04 A61M15/0073 A61M15/009 A61M15/0026 A61M15/0075 A61M15/0091 G06M1/04 G06M1/083

US: 128/200.14 128/200.23 128/203.12

PatBase - US2014290648_AA



Family:

Publication number	Publication date	Application number	Application date
AR088590 AA	20140618	AR2012P104070	20121031
AU2012330943 AA	20130510	AU20120330943	20121031
CA2853743 AA	20140428	CA20122853743	20121031
CN103987417 A	20140813	CN201280053812	20121031
CN103987417 B	20170215	CN201280053812	20121031
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EA201490906 A1	20140829	EA20140090906	20121031
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Priority:

CN201280053812 20121031 GB20110018845 20111101 WO2012GB52709 20121031
NZ20120623927 20121031

Probable Assignee: EURO CELTIQUE SA

Assignee(s): (std): EURO CELTIQUE SA ; GORDON KIRSTEEN

Assignee(s): MCDERMONT IAIN GRIERSON ; DUIGNAN CATHAL ; EURO CELTIQUE S A

Inventor(s): (std): DUIGNAN CATHAL ; MCDERMONT IAIN ; MCDERMONT IAIN GRIERSON

Inventor(s): IAIN GRIERSON MCDERMONT ; IAIN MCDERMONT ; CATHAL DUIGNAN

Agent(s): MARKS AND CLERK AUSTRALIA; FB RICE; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; MARKS AND CLERK; LUZ CLEMENCIA DE PAEZ; GORDON KIRSTEEN HELEN; MARKS AND CLERK SINGAPORE LLP; MARKS AND CLERK 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

39) Family number: 53783671 (US2016038696A)

© PatBase

Title: DISPENSER

Abstract: Source: US2016038696A The present invention relates to dispensers, in particular to dispensers for dispensing a dose of a gaseous, gas borne or droplet substance from a substance source and dispensers comprising dosage counters. The present invention therefore provides a dispenser for dispensing a dose of a gaseous, gas borne or droplet substance from a substance source, the dispenser comprising: a body (1) for receiving a substance source, the body having a mouthpiece (2); a junction member (41) slideably arranged in the body for movement in a longitudinal axis of the body to release a dose of a substance from a substance source (C), the junction member receiving a spout (S) of a substance source in a socket (43); and a dispenser driver for moving the junction member in the longitudinal axis of the body to release a dose of a substance from a substance source. A cam follower (16) is slideably arranged within the body having rigid protrusions (18a, 18b) projecting from a base (17) and the protrusion being arranged between the dispenser driver and the junction member such that a force applied by the cam of the dispenser driver to the protrusion causes the cam follower to slideably move in the longitudinal axis of the body and apply a force to the junction member so as to release a dose of a substance from a substance source. The dispenser also comprises a dispenser cap (91) comprising a hollow body having a lower open end (92) engageable with the body, and an upper open end (94) for receiving a cap closure device (120) for closing the upper open end. The dispenser also comprises a dose counter (203) for indicating a number of actuations of the dispenser corresponding to a number of doses dispensed from a substance source, or a number of doses remaining in a substance source, the dose counter comprising: a first ring member (202) having a first indicia and being rotatable in increments about the longitudinal axis, the first indicia indicating a count; and a limiting member comprising a limiting mechanism (1506), wherein the limiting mechanism comprises an engaging portion arranged to act radially with respect to the first ring member to contact the first ring member to limit free rotation of the first member relative to the limiting member about the axis.

Classifications:**International (ipc 8-9):** A61M A61M11/00 A61M11/02 A61M13/00

A61M15/00 A61M16/12 A61M16/14 A61M16/20 A61M5/00

G06M1/14 (Advanced/Invention);

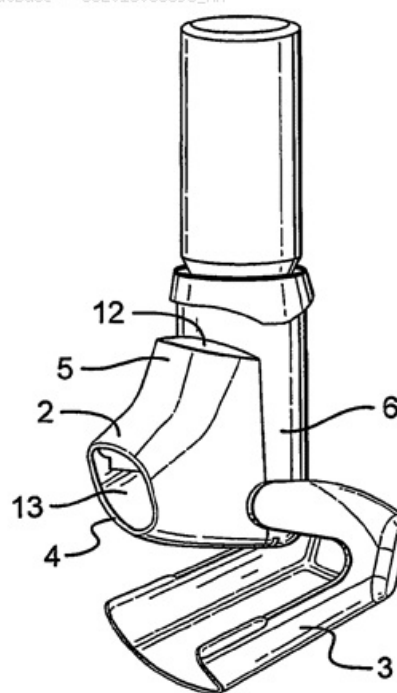
A61M (Subclass/Invention)

CPC: A61M15/0093 G06M1/143 A61M16/12 A61M16/14 A61M16/20

A61M15/0073 A61M15/0026 A61M15/009 A61M15/0091

US: 128/200.14 128/200.23 128/203.12

PatBase - US2016038696_AA

**Family:**

Publication number	Publication date	Application number	Application date
AR095514 AA	20151021	AR2014P101122	20140314
AU2014230958 AA	20140918	AU20140230958	20140310
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CL2015002667 A1	20160304	CL20150002667	20150914
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WO14139912 A1	20140918	WO2014EP54523	20140310

Priority:

GB20130004784 20130315 WO2014EP54523 20140310

Probable Assignee: EURO CELTIQUE SA

Assignee(s): (std): EURO CELTIQUE S A ; EURO CELTIQUE SA ; GORDON KIRSTEEN
Assignee(s): MCDERMENT IAIN GRIERSON ; PRIOR PETER ; DUIGNAN CATHAL
Inventor(s): (std): CATHAL DUIGNAN ; DUIGNAN CATHAL ; GRIERSON MCDERMENT IAIN ; IAIN GRIERSON MCDERMENT ; MCDERMENT IAIN GRIERSON ; PETER PRIOR ; PRIOR PETER
Agent(s): MARKS AND CLERK AUSTRALIA; FB RICE; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; MARKS AND CLERK; SARGENT AND KRAHN; GORDON KIRSTEEN HELEN; MARKS AND CLERK 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 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

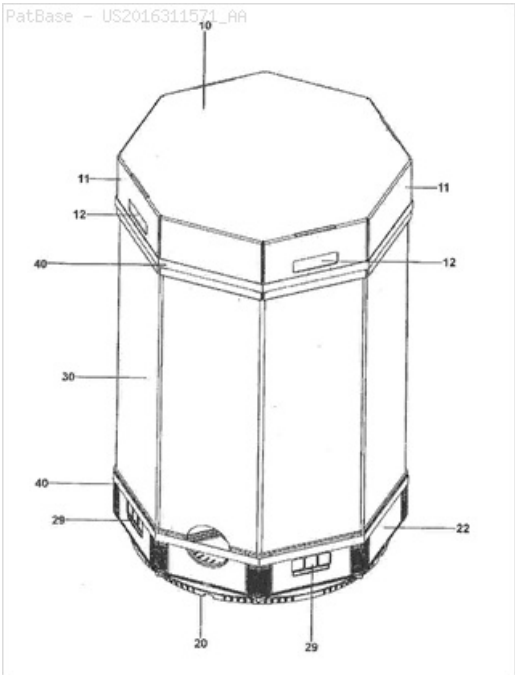
40) Family number: 60726587 (US2016311571A) © PatBase

Title: CONTAINER-DRUM STRUCTURAL ARRANGEMENT

Abstract: Source: US2016311571A A container-drum structural arrangement described that comprises a cardboard cover (10) positioned on the top and a plastic cover (20) positioned on the base of the body of the container-drum (30), said cover (10 and 20) matching the format of the body of the container-drum (30), said cover (10) having grooves (13) for housing the fastening strip (40) that has a positive projection (131) and plastic cover (20) that has concentric channels (23), central recess (24), radiating re-entrant parts and grooves (25) arranged over the entirety of the circular projection (21) of the cover (20), said cover (20) having, on the edge of the chamfered region surface (26), raised grooves (27), longitudinal reinforcement, grooves (28) and transportation handles (29) that have, in the lower portion thereof, transverse grooves (291), with negative slope, originating from the circular projection (21), allowing the locking of the cover and facilitating the movement thereof.

Classifications:

International (IPC 8-9): B65D45/00 B65D5/468 B65D5/64 B65D8/00 (Advanced/Invention)
CPC: B65D15/08 B65D5/64 B65D5/4608 B65D5/685 B65D15/22 B65D43/0212 B65D45/32 B65D2543/00212 B65D2543/00296 B65D2543/00407 B65D2543/00416 B65D2543/00537 B65D2543/00666 B65D2543/00694 B65D2543/0074 B65D2543/00805
US: 229/109



Family:

Publication number	Publication date	Application number	Application date
US2016311571 AA	20161027	US20140104191	20140429
WO15164932 A1	20151105	WO2014BR00139	20140429

Priority:

WO2014BR00139 20140429

Probable Assignee: PISANI PLASTICOS S A

Assignee(s): (std): PISANI PLASTICOS S A ; RIGESA CELULOSE PAPEL E EMBALAGENS LTDA

Assignee(s): PISANI PLASTICOS SA

Inventor(s): (std): MIRANDA RAFAEL DOMINGOS ; WEBBER PAULO FRANCISCO

Agent(s): SKO OYARZABALL MARCAS E PATENTES SS LTDA

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 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