



New connection on: : 17-05-2018 : 01:12:33 - Last disconnection on: : 16-05-2018 : 20:20:09

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 23] ..fi epodoc

Unknown database/cluster. Use the command ..FI (CL) in order to check the name of the databases/clusters available. *ERROR(-50416)*

[SS 23]

[SS 23]

[SS 23]

[SS 23]

[SS 23]

[SS 23] ..fi epodoc

Unknown command or preparation. [More info](#) *ERROR(-104000)*

[SS 23] dispens+ and (container or recipient or bottle) and liquid)

An opening or closing bracket is missing. *ERROR(-101304)*

[SS 23] dispens+ and (container or recipient or bottle) and liquid

Results in EPODOC 17.183

[SS 24] * and PD<20140922

Results in EPODOC 14.870

[SS 25] * and (dosage or dose)

Results in EPODOC 360

[SS 26] * and (snap d2 fit)

Results in EPODOC 0

EPODOC: term 'SNAP D2 FIT' not found in index 'BI'. WARNING(1)

[SS 27] * and (snap 2d fit)

Results in EPODOC 0

[SS 28] 25 and (snap 2d fit)

Results in EPODOC 0

[SS 29] 25 and (opening* or hole* or apperture*)

Results in EPODOC 0

EPODOC: term 'OPENING*' not found in index 'BI'. WARNING(1)

 2 similar messages

[SS 30] 25 and (opening+ or hole+ or apperture+)

Results in EPODOC 98

[SS 31] ..v

[EPODOC: SS 31] ..li 1-10



1/98 © EPODOC / EPO

PN - [TW200413612](#) A 20040801

PR - US20020282200 20021025

AP - TW20030129140 20031021

DT - I

CCI - [E03D9/037](#)

PA - JOHNSON & SON INC S C [US]

TI - In-tank **dispenser** with flexible supported valve head

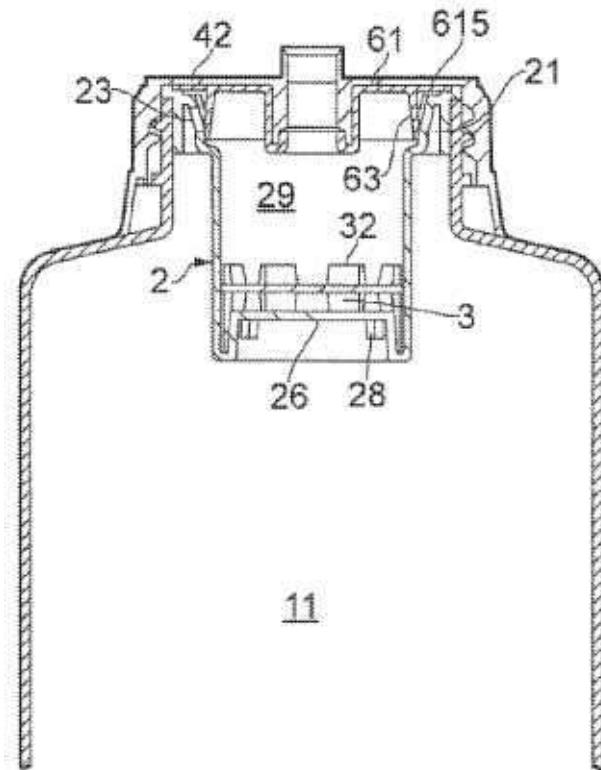
AB - A toilet tank cleanser **dispenser** has a receiving holster suitable to receive an inverted **container** of cleaning composition and suitable to **dose liquid** from the **container**. The adapter has an internal dosing shuttle for metering an aliquot of cleanser



through an **opening** at the bottom of the adapter defining a valve seat. A float can move up and down with respect to the **liquid** level in the tank to drive an outlet valve against an outlet of the adapter. The present invention focuses on the balloon-like structure of a valve head driven by the float. For example, a low density thin wall polyethylene valve head can be supported by a trapped air pocket to reduce leakage, permit some flexibility, and avoid permanent deformation.

2/98 © EPODOC / EPO

- PN - [US2014008398](#) A1 20140109
- PNFP - US9433960 B2 20160906
- PR - US201314021242
20130909; GB20080015881
20080901; US201113036252
20110228; WO2009GB02106
20090901
- AP - US201314021242 20130909
- DT - *; Rep
- CT - || R141 (A1)
[US2581897](#) A 19520108 [
] (ALLEN HUGH C);
[US3134514](#) A 19640526 [
] (BOOTH WILLIAM M);
[US4179051](#) A 19791218 [
] (THOMAS MICHAEL D [US]);
[US4474314](#) A 19841002 [
] (ROGGENBURG JR STANLEY L
[US]);
[US4519530](#) A 19850528 [
] (SCHMIDT GERHARD S E [CA]);
[US4728011](#) A 19880301 [
] (SCHUSTER WILHELM [DE], et al);
[US5000353](#) A 19910319 [
] (KOSTANECKI ANDREW T [US], et
al);
[US5129561](#) A 19920714 [
] (DROBISH JAMES L [US]);
[US5346105](#) A 19940913 [
] (ONNEWEER FREDERIK J [BE]);



[US5472122](#) A 19951205 [
] (APPLEBY PAUL [CA]);
[US6662977](#) B2 20031216 [
] (GERBER BERNARD R [US], et al);
[US2004112920](#) A1 20040617 [
] (FELTEN BERNHARD [DE], et al);
[US2004144809](#) A1 20040729 [
] (KERMAN ERIC [FR], et al);
[US2009159618](#) A1 20090625 [
] (LAIBLE RODNEY [US]);
[US2012305607](#) A1 20121206 [
] (GEIGER ANDREAS [CH], et al);
[US2013119092](#) A1 20130516 [
] (KUWAGAKI DENMI [JP], et al);
[US8528795](#) B2 20130910 [
] (LAW BRIAN ROBERT [GB], et al)
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[US2581897](#) A 19520108 [
] (ALLEN HUGH C);
[US3134514](#) A 19640526 [
] (BOOTH WILLIAM M);
[US4179051](#) A 19791218 [
] (THOMAS MICHAEL D [US]);
[US4474314](#) A 19841002 [
] (ROGGENBURG JR STANLEY L
 [US]);
[US4519530](#) A 19850528 [
] (SCHMIDT GERHARD S E [CA]);
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] (SCHUSTER WILHELM [DE], et al);
[US5000353](#) A 19910319 [
] (KOSTANECKI ANDREW T [US], et
 al);
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] (DROBISH JAMES L [US]);
[US5346105](#) A 19940913 [
] (ONNEWEER FREDERIK J [BE]);
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] (LAW BRIAN ROBERT [GB], et al);
[US2004112920](#) A1 20040617 [
] (FELTEN BERNHARD [DE], et al);
[US2004144809](#) A1 20040729 [
] (KERMAN ERIC [FR], et al);
[US2009159618](#) A1 20090625 [
] (LAIBLE RODNEY [US]);

	US2012305607 A1 20121206 [] (GEIGER ANDREAS [CH], et al); US2013119092 A1 20130516 [] (KUWAGAKI DENMI [JP], et al)
CCI	- B05B11/04 ; B65D47/0838 ; B65D47/2018 ; G01F11/04 ; G01F11/082 ; G01F11/263
CQI	- B05B11/048
PA	- (A1) RIEKE CORPORATTION [US] - (B2) RIEKE CORP [US]
TI	- (A1) LIQUID DOSING DEVICES - (B2) Liquid dosing devices
AB	- (A1 B2) A dosing device for dispensing liquid from a container (1) in which flow through flow openings (23) to an outlet tube (44) is blocked after controlled delay by an obturator (3) moveable within a control chamber (2) mounted in a container neck (101) behind the outlet tube (44). Movement of the obturator (3) is governed by restricted flow through control openings (28) at the rear of the control chamber. Restoration of the obturator to the back of the control chamber facilitates repeated dosing. An elastomeric element (6) of resiliently deformable material promotes a seal to achieve a cleanly defined dose. In one proposal the elastomeric element coats the surface of the obturator and/or the outlet tube (64) to cut off the flow. Another proposal provides a one-way elastomeric valve element (63) for blocking the flow openings to enable rapid recovery after a dosing operation.

3/98 © EPODOC / EPO

PN - [CN203209011U](#) U 20130925
PR - CN20132143286U 20130327
AP - CN20132143286U 20130327
DT - I
PA - ZIBO VOCATIONAL INST
TI - Low-**dosage** precise **dispensing** device
AB - The utility model discloses a low-**dosage** precise **dispensing** device which relates to a **dispensing** medical appliance. The low-**dosage** precise **dispensing** device mainly comprises a cup body with an internal cavity and a cup cover buckled with the upper end of the cup body, wherein a tubular filter is arranged at the lower end of the cup cover, a medicine injection **opening** communicated with the inside of the tubular filter is formed in the cup cover, the outer wall of the cup body is provided with a transparent **dispensing** tube, the outer wall of the transparent **dispensing** tube is provided with scales, and the transparent **dispensing** tube is communicated with the internal cavity of the cup body. The cup body of the low-**dosage** precise **dispensing** device is a **container** which contains **liquid** medicine, and is buckled and connected with the cup cover, and the tubular filter is arranged at the lower end of the cup cover and can be used for filtering **liquid** Chinese herbal medicines. When a pharmacist needs to precisely proportion the **liquid** medicines, the **liquid** medicines can be injected into the transparent **dispensing** tube, and then injected into the internal cavity of the cup body through the transparent **dispensing** tube to mix the needed **liquid** medicine. The purpose of precisely injecting the **liquid** medicine can be achieved by observation on the scales on the transparent **dispensing** tube.

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PN - [DK177528B](#) B1 20130908
PR - DKPA201200143 20120222
AP - DKPA201200143 20120222
DT - I
CCI - [B65D25/52](#) ; [B65D47/2031](#)
CUI - [G01F11/288](#)
CUA - [G01F11/10](#) ; [G01F11/26](#) ; [G01F11/262](#) ; [G01F11/263](#) ; [G01F11/28](#)
PA - NIELSEN KELD KROGH [DK]
TI - A **dispensing** device for **dispensing** a **liquid** product
AB - A **dispensing** device (1) for **dispensing** a liquid product from a **container** containing said product is disclosed. The **dispensing** device (1) comprises a first chamber (4) and a second chamber (5). An inlet passage (2) comprising at least one inlet **opening** establishes a fluid connection between the first chamber (4) and an interior part of a **container** having the **dispensing** device (1) mounted thereon. An outlet passage (6) adapted to deliver the liquid product being **dispensed** by means of the **dispensing** device (1) is fluidly connected to the second chamber (5). An intermediate valve (3) divides an interior part of the **dispensing** device (1) into the first chamber (4) and the second chamber (5), the intermediate valve (3) comprising a valve seat plate (7) provided with at least one **opening** (8) and a valve flapper plate (9) provided with at least one flapper

(10) for covering the at least one **opening** (8) in the valve seat plate (7), said intermediate valve (3) being arranged at the first chamber (4), the intermediate valve (3) and the first chamber (4) being provided with an outer dimension that is smaller than the inner dimension of the second chamber (5) and said intermediate valve (3) and the first chamber (4) being movable into the second chamber (5) like a piston. Thereby the second chamber (5) also called the dosing chamber is emptied after each dosing. This ensures that the **dispensed dose** is precise and consistent. Furthermore, a method for manufacturing the **dispensing device** (1) by means of injection moulding is disclosed.

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PN - [WO2013171706](#) A2 20131121

PNFP - WO2013171706 A3 20140313

PR - IN2012MUM1494 20120516

AP - WO20131B54000 20130516

DT - *; Rep

CT - |EP| ISR (A3)

[DE3416882](#) A1 19851114

[X] (WASSILIEFF VICTOR)

[X] 1-14,19

* the whole document *;

[EP0006513](#) A1 19800109

[X] (CZECH JOACHIM [DE])

[X] 1-6,8-15,19

* the whole document *;

[WO2011022118](#) A1 20110224

[X] (ARCH CHEM INC [US], et al)

[X] 1-4,11,13,14,16,17

* the whole document *;

[US1959276](#) A 19340515

[X] (PAARDECAMP JOHN B)

[X] 1-6,8-11,16,19

* the whole document *;

[EP0254138](#) A1 19880127

[X] (CREANOVA AG [CH])

[X] 1-12,19

* the whole document *;

[GB2364296](#) A 20020123

[X] (TURNER ANDREW [GB])

[X] 1-12,18-20

* the whole document *;

[US3091374](#) A 19630528

[X] (GILBERT SCHWARTZMAN)

[X] 1-12,18-20

* the whole document *;

[EP1102969](#) A1 20010530

[A] (CREATECHNIC AG [CH])

[A] 1-15,19

* the whole document *

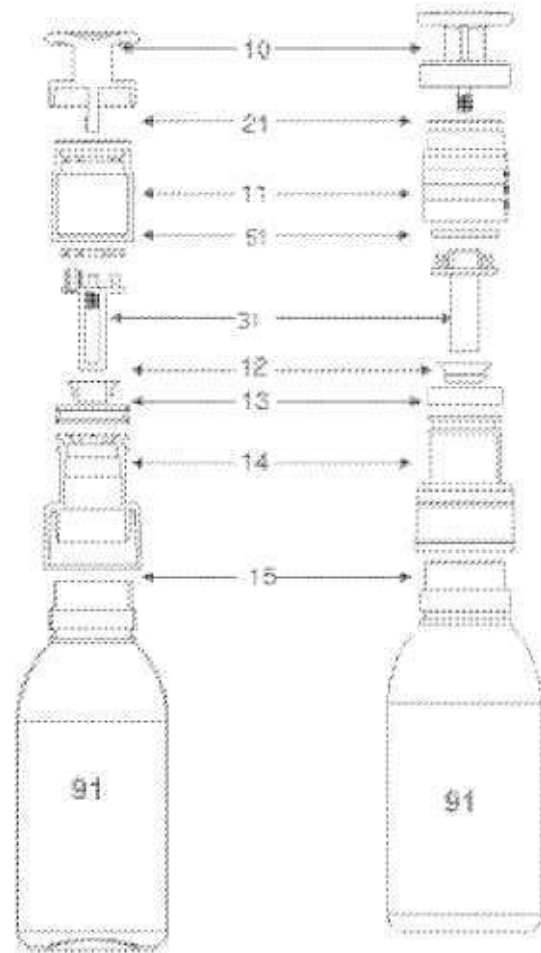


Figure 1B

Figure 1A

CCI - [G01F11/263](#)

PA - (A2 A3)
ABBOTT HEALTHCARE PVT LTD [IN]

TI - (A2 A3)
LIQUID DISPENSING DEVICE FOR DELIVERING ACCURATE DOSE

AB - (A2 A3)
The present invention provides an integrated **liquid dispensing** device for delivering accurate and/or measured and/or metered and/or pre-determined **dose** of oral liquids comprising a **container** for holding **liquid** medicine and a **dispensing** device fitted on the **opening** of the **container**. The **dispensing** device is characterized by use of a shut off valve mechanism or a twist lock mechanism or a spring valve mechanism for **dispensing** the **liquid**.

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PN - [NZ576828](#) A 20120330

PR - WO2007AU01742
20071113; AU20060906330
20061113

AP - NZ20070576828 20071113

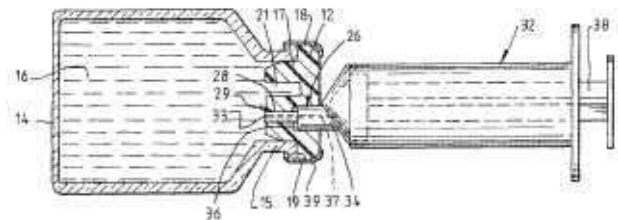
DT - I

CCI - [B65D51/002](#)

PA - RAYMOND JOHN BAKER

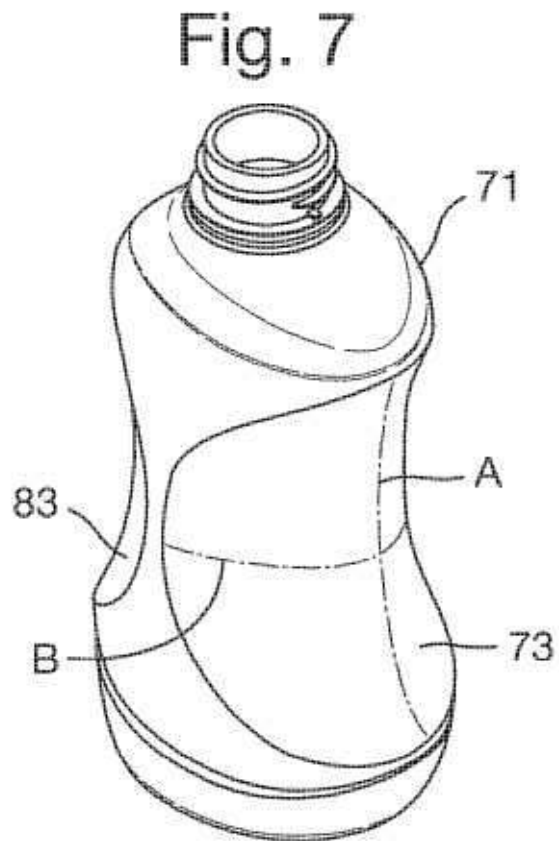
TI - CLOSURE AND **DISPENSING** SYSTEM WITH A **CONTAINER**
CLOSURE CAP WITH OUTER CAVITY AND INNER DUCT
SEPARATED BY AN INTEGRAL SELF-SEALING MEMBRANE WALL

AB - A **container** closure or cap or stopper with an outer cavity for receiving a matching **dispenser** protrusion; a inner duct; the outer cavity and inner duct separated by a membrane wall integrally formed and made of



the same material as the cap. The **dispenser** protrusion or syringe needle penetrates or pierces the membrane to extract or withdraw a **dose of liquid** medicament and when the protrusion is withdrawn from the outer cavity the membranes self-seals to prevent fluid leaking from the inner duct to the outer cavity. The cap is covered by a tamper evident seal over the outer cavity and the interface between cap and **container opening**. The cavity and duct are circular or cylindrical and align axially. Fluid transfer can occur by a pressure differential exerted on the fluid from either side of the membrane. The cap is made from resilient material such as elastomer, polymer, plastic or rubber. The outer cavity can either be moulded to the shape or profile of the **dispenser** protrusion or elastically deform to match the shape.

PN - [WO2012171753](#) A1 20121220
 PR - EP20110170286 20110617
 AP - WO2012EP59443 20120522
 DT - *; Rep
 CT - |EP| ISR (A1)
 [US2007090083](#) A1 20070426
 [A] (TRUDE GREGORY [US])
 [A] 1-15
 * paragraphs [0002] , [0023] -
 [0027] - [0030] , [0035]; figure 3
 *;
 [US2007039917](#) A1 20070222
 [A] (YOURIST SHELDON [US])
 [A] 1-15
 * paragraphs [0022] - [0023];
 figures 1,3 *;
 [WO2006074619](#) A1 20060720
 [A] (PLASTKOV MR A S [CZ], et al)
 [A] 1-15
 * the whole document *;
 [USD536255S](#) S 20070206
 [A] (CORBETT JOHN [US], et al)
 [A] 1-15
 * the whole document *;
 [US2003075554](#) A1 20030424
 [AD] (DUQUEROIE FLORENT [FR])
 [AD] 1,9-15
 * the whole document *;
 [US4223842](#) A 19800923
 [A] (HAYES THOMAS H)
 [A] 1,10,15
 * the whole document *
 CCI - [B65D1/0223](#) ; [B65D1/32](#) ;
 [B65D1/323](#)
 PA - UNILEVER NV [NL]; UNILEVER PLC
 [GB]; UNILEVER HINDUSTAN [IN];
 DE GAST BARRO [IT]; ONESTI
 MIRCO [IT]; PIETRASANTA DAVIDE
 [IT]; TACCONI ALICE [IT]
 TI - FLEXIBLE **CONTAINER**
 AB - The present invention relates to
 a flexible **container** (1) for
 storing and **dispensing** liquids,
 which is operable by manually
 squeezing the **container**. In a first
 aspect the invention provides a
 flexible squeezable **container**,



comprising at least one **opening** (2) and at least two deformable actuation regions (3), characterised in that the deformable actuation regions are defined by an enclosing bendable boundary curve (4), are saddle-shaped, and are resiliently squeezable inwardly by hand. The configuration of the **container** of the invention is such that the maximum **dispensable dose** upon one manual actuation is fixed by the geometry of the **container**. The **container** is particularly useful for **dispensing** liquids in the form of a spray or a foam. The invention also relates to a process for **dispensing** multiple doses of **liquid** from a flexible squeezable **container**.

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PN - [MX2011001084](#) A 20110921
 PR - NL20081035761
 20080728; WO2009NL50462
 20090728

AP - MX20110001084 20090728

DT - I

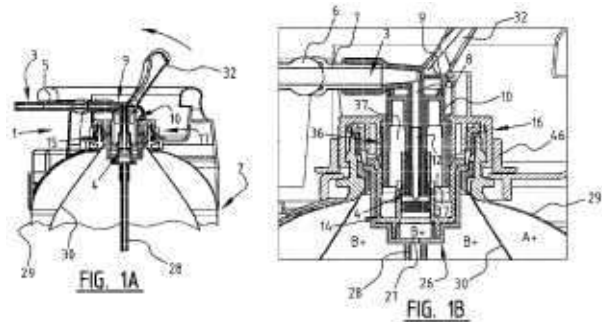
CCI - [B08B9/0321](#) ; [B67D1/1466](#) ;
[B67D1/0412](#) ; [B67D1/0462](#) ;
[B67D1/07](#) ; [B67D1/0829](#) ;
[B67D1/0832](#) ; [B67D1/0834](#)

CCA - [B67D2001/075](#)

PA - DISPENSING TECHNOLOGIES BV
 [NL]

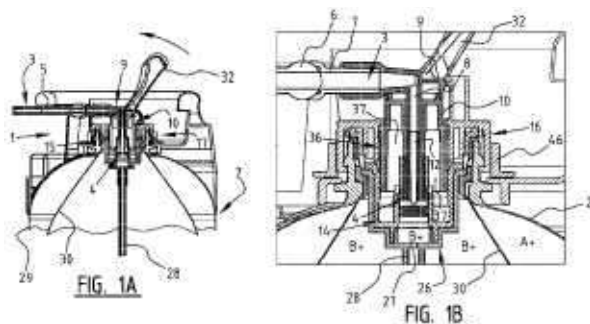
TI - METHOD AND DEVICE FOR
 DOSED **DISPENSING** OF A **LIQUID**
 FROM A **CONTAINER**.

AB - The invention relates to a method for dosed **dispensing** of a **liquid** from a **container** that is connected to an outflow channel that may be closed off by a **liquid** valve, comprising **opening** the **liquid** valve, **dispensing**



a **dose** of the **liquid** from the **container** through the outflow channel and closing the **liquid** valve, and blowing empty the outflow channel after closing of the **liquid** valve. During **dispensing** of the **liquid** a pressure in the **container** may be higher than atmospheric pressure and the **liquid** valve may be biased to its closed position by this higher than atmospheric pressure in the **container**. The invention further relates to a device for dosed **dispensing** of a **liquid** from a **container**, comprising an outflow channel that can be connected to the **container** and that can be closed off by a **liquid** valve, and means for blowing empty the outflow channel when the **liquid** valve is closed. These blowing empty means can be adapted to connect the outflow channel with a source of gas under higher than atmospheric pressure when the **liquid** valve is closed.

- 9/98 © EPODOC / EPO
- PN - [TW201010934](#) A 20100316
- PR - NL20081035761 20080728
- AP - TW20090125192 20090727
- DT - I
- CCI - [B67D1/07](#) ; [B08B9/0321](#) ; [B67D1/0412](#) ; [B67D1/0462](#) ; [B67D1/0829](#) ; [B67D1/0832](#) ; [B67D1/0834](#) ; [B67D1/1466](#)
- CCA - [B67D2001/075](#)
- PA - DISPENSING TECHNOLOGIES BV [NL]
- TI - Method and device for dosed **dispensing** of a **liquid** from a **container**
- AB - The invention relates to a method for dosed **dispensing** of



a **liquid** from a **container** that is connected to an outflow channel that may be closed off by a **liquid** valve, comprising **opening** the **liquid** valve, **dispensing** a **dose** of the **liquid** from the **container** through the outflow channel and closing the **liquid** valve, and blowing empty the outflow channel after closing of the **liquid** valve. During **dispensing** of the **liquid** a pressure in the **container** may be higher than atmospheric pressure and the **liquid** valve may be biased to its closed position by this higher than atmospheric pressure in the **container**. The invention further relates to a device for dosed **dispensing** of a **liquid** from a **container**, comprising an outflow channel that can be connected to the **container** and that can be closed off by a **liquid** valve, and means for blowing empty the outflow channel when the **liquid** valve is closed. These blowing empty means can be adapted to connect the outflow channel with a source of gas under higher than atmospheric pressure when the **liquid** valve is closed.

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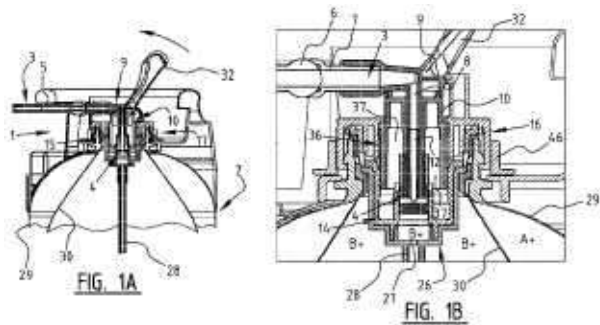
PN - [CN102171133](#) A 20110831
 PR - NL20081035761
 20080728; WO2009NL50462
 20090728

AP - CN20098137931 20090728

DT - I

CCI - [B67D1/07](#) ; [B08B9/0321](#) ;
[B67D1/0412](#) ; [B67D1/0462](#) ;
[B67D1/0829](#) ; [B67D1/0832](#) ;
[B67D1/0834](#) ; [B67D1/1466](#)

CCA - [B67D2001/075](#)



- PA - DISPENSING TECHNOLOGIES BV
- TI - Method and device for dosed **dispensing** of a **liquid** from a **container**
- AB - The invention relates to a method for dosed **dispensing** of a **liquid** from a **container** that is connected to an outflow channel that may be closed off by a **liquid** valve, comprising **opening** the **liquid** valve, **dispensing** a **dose** of the **liquid** from the **container** through the outflow channel and closing the **liquid** valve, and blowing empty the outflow channel after closing of the **liquid** valve. During **dispensing** of the **liquid** a pressure in the **container** may be higher than atmospheric pressure and the **liquid** valve may be biased to its closed position by this higher than atmospheric pressure in the **container**. The invention further relates to a device for dosed **dispensing** of a **liquid** from a **container**, comprising an outflow channel that can be connected to the **container** and that can be closed off by a **liquid** valve, and means for blowing empty the outflow channel when the **liquid** valve is closed. These blowing empty means can be adapted to connect the outflow channel with a source of gas under higher than atmospheric pressure when the **liquid** valve is closed.