

1) Family number: 33547051 (US2006237483A)

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Title: BELLOWS DISPENSER

Abstract: A pump assembly with a first pump to displace a first volume and a second pump to displace a second volume greater than the first volume. The first pump draws liquid from a reservoir and dispenses it to the second pump. The second pump draws in the discharge from the first pump and an additional volume of air such that the second pump discharges both liquid and air. The first pump preferably has a piston movable in a first inner chamber and the second pump has the same piston movable in a second outer chamber. The first and second chambers communicate together. In one version, a one-way valve provides flow outwardly only from the first chamber to the second chamber and the first pump discharges while the second pump draws in, and vice versa.

Classifications:

International (IPC 8-9): A47K5/13 A47K5/14 B05B11/00 B05B11/02 B05B7/00 B65D37/00 B65D83/76 B65D88/54 B67D5/06 B67D7/06 F04B19/06 F04B23/06 F04B33/00 F04B45/02 F04B53/10 F04B53/14 F04B53/16 F04B9/14 F16F1/36 F16F1/373 F16F1/377 F16F1/44 (Advanced/Invention);

A47K5/13 A47K5/14 B05B11/00 B05B11/02

B65D47/34 (Advanced/Non-invention);

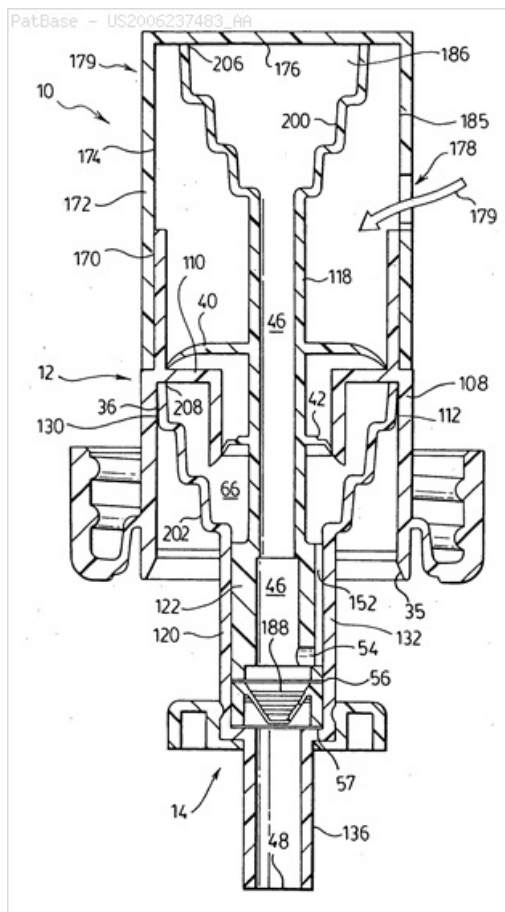
A47K5/00 B05B11/00 B05B11/02 B65D37/00 B65D83/76 B65D88/00 B67D7/06 F04B19/00 F04B23/00 F04B33/00 F04B53/00 F04B53/10 F04B9/00 F16F1/36 F16F1/44 (Core/Invention);

A47K5/00 B05B11/02 B65D47/34 (Core/Non-invention)

CPC: F16F1/373 B05B11/3069 B05B11/00412 B05B11/3001 B05B7/0037 B05B11/0059 B05B11/3066 B05B11/3087 B05B11/3094 A47K5/14 B05B11/307 B65D47/2075

European: A47K5/14 B05B11/00B9 B05B11/00P9R B05B11/30C B05B11/30H7 B05B11/30H7B2 B05B11/30H7D B05B11/30L B05B11/30R B05B7/00C1A1 B65D47/20E4A3 L05B11/00B5A2 L05B11/00B6

US: 222/181.1 222/181.3 222/181.300P 222/190 222/207 222/207P 222/207S 222/321.1 222/321.100P 222/321.100S 222/321.8 222/321.9 222/340 267/153 267/159 267/182 417/472 417/472P



Family:

Publication number	Publication date	Application number	Application date
CA2504989 AA	20061022	CA20052504989	20050422
CA2504989 C	20130312	CA20052504989	20050422
CA2509295 AA	20061022	CA20052509295	20050607
CA2509295 C	20131119	CA20052509295	20050607
CA2517326 AA	20061022	CA20052517326	20050826
CA2517326 C	20120918	CA20052517326	20050826
CA2791887 AA	20061022	CA20052791887	20050607
CA2791887 C	20141007	CA20052791887	20050607
CN101163881 A	20080416	CN200680013590	20060412
CN101163881 B	20100623	CN200680013590	20060412
DE602006046497 D1	20151015	DE200660046497T	20060412
EP1886019 A1	20080213	EP20060721806	20060412
EP1886019 A4	20110907	EP20060721806	20060412
EP1886019 B1	20150902	EP20060721806	20060412
EP2975265 A2	20160120	EP20150002138	20060412
EP2975265 A3	20160518	EP20150002138	20060412
EP3021000 A1	20160518	EP20150002137	20060412
JP2008537050 T2	20080911	JP20080506892T	20060412
JP4854731 B2	20120118	JP20080506892T	20060412
MX2007013126 A1	20080118	MX20070013126	20060412
US2006237483 AA	20061026	US20060403187	20060413
US2006249538 AA	20061109	US20060403209	20060413
US2006273114 AA	20061207	US20050145221	20050606

US2010260632 AA	20101014	US20100659950	20100325
US7303099 BB	20071204	US20050145221	20050606
US7708166 BB	20100504	US20060403187	20060413
US7770874 BB	20100810	US20060403209	20060413
US8474664 BB	20130702	US20100659950	20100325
WO06110992 A1	20061026	WO2006CA00557	20060412

Priority:

CA20052504989	20050422	US20050145221	20050606	CA20052509295	20050607
CA20052791887	20050607	CA20052517326	20050826	EP20060721806	20060412
WO2006CA00557	20060412	US20060403187	20060413	US20060403209	20060413
US20100659950	20100325	CA20122509295	20121023		

Probable Assignee: GOTOHTICOM INC

Assignee(s): (std): GOTOHTI COM ; GOTOHTI COM INC ; OPHARDT HEINER ; MIRBACH ALI ; HYGIENE TECHNIK INC ; OP HYGIENE IP GMBH

Assignee(s): OPHARDT HYGIENE AG ; GOTOHTICOM ; GOTOHTICOM INC ; GOTOHTICOM INC4743 CHRISTIE DRIVEBEAMSVILLEO1LOR 1B4CA ; GOTOHII COM INC ; GOTOHIICOM INC

Inventor(s): (std): MIRBACH ALI ; OPHARDT HEINER ; HEINER OPHARDT ; ALI MIRBACH

Inventor(s): OPHARDT HEINERCH

Agent(s): RICHES MCKENZIE AND HERBERT LLP; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUSSER ANWALTSSOZIETAET; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; THORPE NORTH AND WESTERN 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 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

2) Family number: 62974136 (US2018263431A)

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Title: A PUMP FOR A SYSTEM FOR DISPENSING A LIQUID AS A SPRAY, A SPRAY NOZZLE UNIT, A SYSTEM FOR DISPENSING A LIQUID AS A SPRAY AND A METHOD FOR DISPENSING A LIQUID AS A SPRAY

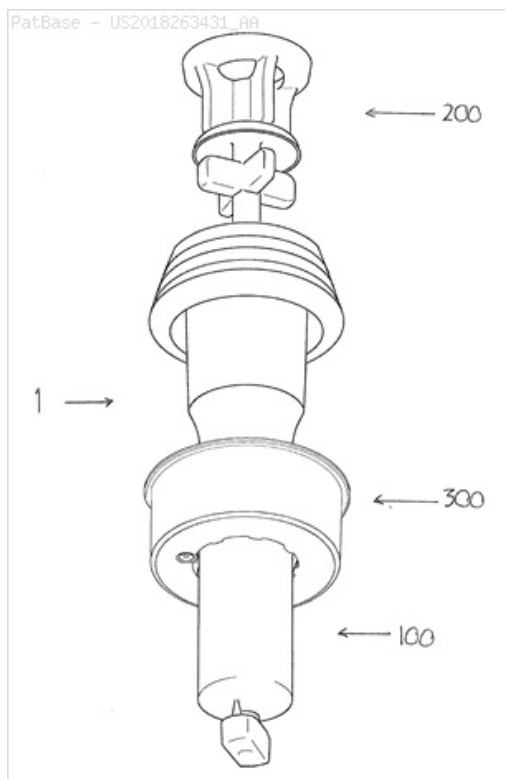
Abstract: A pump includes a housing forming a chamber; a dispensing opening; and a regulator fixedly arranged in the chamber. The regulator includes an inner valve for regulating a flow of liquid between the container and the chamber; an outer valve for regulating a flow of liquid between the chamber and the dispensing opening; a stem resilient along its length, sideways bendable, and extending in a **longitudinal** direction of the housing between the inner valve and the outer valve; and a displacement guide located at an outer portion of the stem on an inner side of the outer valve. An outer perimeter of the displacement guide and a portion of an internal surface of a guide region located adjacent the displacement guide are adapted to transfer the sideways bending of the stem to a relative displacement between the outer valve and the housing along the **longitudinal** direction of the housing.

Classifications:

International (IPC 8-9): A47K A47K5/12 B05B B05B1/30 B05B11/00 B65D B65D47/20 (Advanced/Invention)

CPC: B05B15/62 A47K5/1209 B05B11/0059 B05B11/3032

B05B11/3064 B65D47/2062 B05B1/06 B05B1/3436 B05B11/3033



Family:

Publication number	Publication date	Application number	Application date
AU2015377316 AA	20170713	AU20150377316	20150112
AU2015377316 BB	20170928	AU20150377316	20150112
CA2973669 AA	20170712	CA20152973669	20150112
CN107105946 A	20170829	CN201580073156	20150112
CO20170007326 A2	20171010	CO20170007326	20170724
EP3244782 A1	20171122	EP20150878173	20150112
EP3244782 A4	20181219	EP20150878173	20150112

■ HK1236781 A1	20180406	HK20170111040	20171030
■ MX2017009087 A1	20171122	MX20170009087	20150112
■ RU2660036 C1	20180704	RU20170128470	20150112
■ US2018263431 AA	20180920	US20150542516	20150112
■ WO16114689 A1	20160721	WO2015SE50010	20150112
■ ZA201705402 A	20190130	ZA20170005402	20170810

Priority:

WO2015SE50010 20150112 ZA20170005402 20170810

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): ESSITY HYGIENE AND HEALTH AB ; SCA HYGIENE PRODUCTS AB ; SCA HYGIENE PROD AB

Assignee(s): ESSITY HYGIENE AND HEALTH AKTIEBOLAG ; NILSSON HUGO ; BERGMAN PETER

Inventor(s): (std): BERGMAN PETER ; HUGO NILSSON ; NILSSON HUGO ; PETER BERGMAN

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; RIDOUT AND MAYBEE LLP; JOSE ANDRES RINCON USCATEGUI; VALEA AB; NTD PATENT AND TRADE MARK AGENCY LTD; OOO YURIDICHESKAYA GORODISSKIY I PARTNER Y FA

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

3) Family number: 16044171 (US6343724B)

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Title: UNITARY ONE-WAY VALVE FOR FLUID DISPENSER

Abstract: A valve assembly for a fluid dispensing unit, particularly for a soap dispenser, comprising a resilient valve member secured within a chamber. Valve member comprises a sealing member, a support member and a securement member. The support member carries sealing member at one end and securement member at the other end. The valve member when secured within the chamber is under compression with the sealing member biased by the support member engaging and sealing the inlet port of the chamber to fluid flow therethrough other than fluid flow under a pressure differential across sealing member sufficient to resiliently deflect the sealing engagement. The valve member is formed entirely from recyclable plastic as an integral unit by injection molding.

Classifications:

International (IPC 8-9): A47K5/12 B05B11/00 B65D47/34

B65D75/58 B67D5/34 B67D7/36 F16K21/04

F16K7/17 (Advanced/Invention);

A47K5/00 B05B11/00 B65D47/34 B65D75/52 B67D7/06 F16K21/00

F16K7/12 (Core/Invention)

International (IPC 1-7): A47K5/12 B05C17/01 B65D35/46

B65D47/34 B65D83/00 B67D5/00 F16K15/02 F16K21/04 F16K7/17

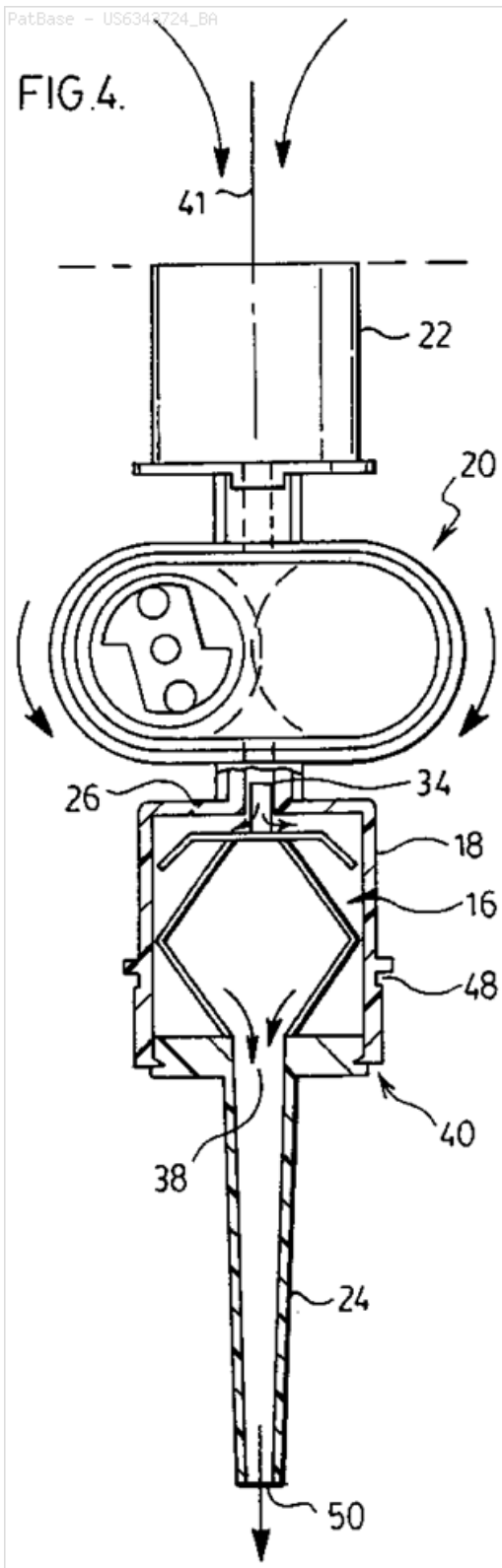
CPC: Y10T137/7939 B05B11/0064 A47K5/1202 A47K5/1217

B65D75/5883 B65D2575/583

European: A47K5/12C A47K5/12C1 A47K5/12E B05B11/00B9L

B65D75/58G3C L65D575/58C

US: 137/543.23 222/212 222/380 222/496 222/95

**Family:**

Publication number	Publication date	Application number	Application date
■ CA2313821 AA	20020110	CA20002313821	20000710
■ CA2313821 C	20070703	CA20002313821	20000710
■ DE10132758 A1	20020124	DE20011032758	20010710
■ DE10132758 B4	20091126	DE20011032758	20010710
■ GB200116709 A0	20010829	GB20010016709	20010709
■ GB2365510 A1	20020220	GB20010016709	20010709
■ GB2365510 B2	20040630	GB20010016709	20010709
■ US6343724 BA	20020205	US20000662607	20000914

Priority:

CA20002313821 20000710 US20000662607 20000914

Probable Assignee: HYGIENE TECHNIK INC

Assignee(s): (std): HYGIENE TECHNIK INC

Assignee(s): HYGIENE TECHNIK INC BEAMSVILLE ; MIRBACH ALI ; OPHARDT HEINER ; OPHARDT HERMAN

Inventor(s): (std): OPHARDT HERMANN ; OPHARDT HEINER ; MIRBACH ALI ; OPHARDT HERMAN

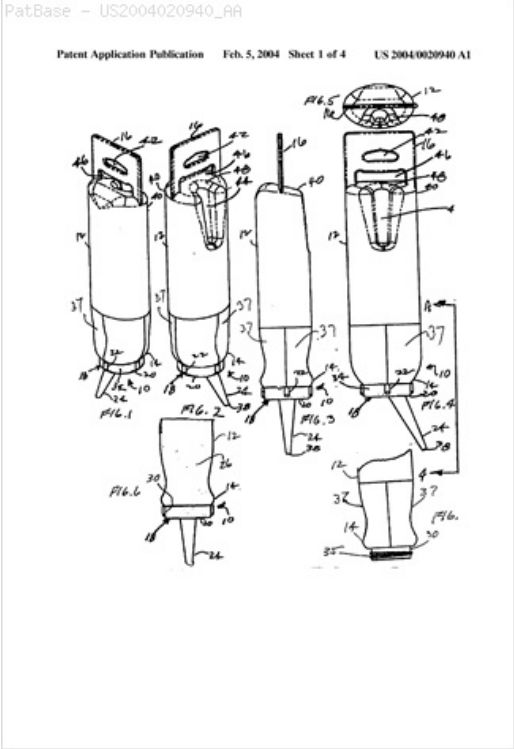
4) Family number: 33990356 (US2004020940A)

PatBase

Title: VISCIOUS FLUID DISPENSER, INTEGRAL STORED NOZZLE PACKAGE AND METHOD

Abstract: A viscous fluid dispenser, comprises a compressible body having a substantially tubular profile and comprising an interior fluid holding cavity and a head comprising a cap structure operatively connected to an operative end of the compressible body and a nozzle communicatively connected through the cap structure to form a continuous off-center passage through the head from the interior fluid holding cavity to an exterior fluid expressing side. A fluid dispenser package comprises a compressible body having a substantially tubular profile with a cleft within the profile extending **longitudinally** to the body profile from a top end of the profile to a location intermediate along the profile to form a tapering cleft within the body profile; and a head comprising a cap structure and a nozzle communicatively connected through the cap to form a continuous passage through the head from an interior fitting side to an exterior fluid expressing side, wherein the head is removably stored at the body top end in a connection reversed to an operating connection with the nozzle cradled in the cleft within the tubular profile of the flexible body. A method of applying a viscous fluid to a target area comprises positioning a compressible viscous fluid dispenser comprising an angled dispensing nozzle at an angle from a perpendicular of the dispenser to the target area and compressing the dispenser to express viscous fluid directly onto the target.

Classifications:
International (ipc 8-9): B05C5/00 B05C7/00 B65D B65D23/00 B65D23/12 B65D35/00 B65D35/02 B65D35/24 B65D35/36 B65D35/38 B65D35/56 B65D47/06 B65D69/00 B65D83/00 B67D3/00 B67D5/06 B67D7/06 (Advanced/Invention); B65D35/24 B67D7/06 (Core/Invention); B65D (Subclass/Invention)
International (ipc 1-7): B05C5/00 B05C7/00 B65D23/00 B65D23/12 B65D35/00 B65D35/02 B65D35/36 B65D35/38 B65D47/06 B65D69/00 B65D83/00 B67B7/00 B67D5/06
CPC: B05C17/00503 B65D23/003 B65D23/12 B65D47/06 B65D69/00 B65D73/0064 B05C17/005 B05C17/00516 B05C17/00583 B65D35/38 B65D35/245
European: B05C17/005 B05C17/005B6 B05C17/005R B65D23/00D B65D23/12 B65D35/24D B65D35/38 B65D47/06 B65D69/00 L05C17/005B L05C17/005Y10
US: 222/1 222/105 222/106 222/181.2 222/1P 222/538 222/539 222/568 222/92 222/93 222/93S 401/261 401/261S 401/266 D9/415 D9/426 D9/521



Family:

Publication number	Publication date	Application number	Application date
AT391680 E	20080415	AT20040250315T	20040121
AT479603 E	20100915	AT20040019240T	20040121
AT486019 E	20101115	AT20040012833T	20040121
AT490189 E	20101215	AT20040024147T	20040121
CA105712 S	20050520	CA20040105712F	20040127
CA2456254 AA	20050728	CA20042456254	20040128
CA2456254 C	20081216	CA20042456254	20040128
CL2004000089 A1	20050128	CL20040000089	20040122
CL48139 B	20120112	CL20040000089	20040122
DE602004012956 D1	20080521	DE200460012956T	20040121
DE602004012956 T2	20090528	DE200460012956T	20040121
DE602004028966 D1	20101014	DE200460028966T	20040121
DE602004029832 D1	20101209	DE200460029832T	20040121
DE602004030383 D1	20110113	DE200460030383T	20040121
DK1557369 T3	20080728	DK20040250315T	20040121
DK1731440 T3	20101122	DK20040019240T	20040121
DK1842786 T3	20110131	DK20040012833T	20040121
DK1892192 T3	20110221	DK20040024147T	20040121
EP1557369 A1	20050727	EP20040250315	20040121
EP1557369 B1	20080409	EP20040250315	20040121
EP1731440 A2	20061213	EP20060019240	20040121
EP1731440 A3	20070411	EP20060019240	20040121
EP1731440 B1	20100901	EP20060019240	20040121
EP1842786 A1	20071010	EP20070012833	20040121
EP1842786 B1	20101027	EP20070012833	20040121
EP1892192 A2	20080227	EP20070024147	20040121
EP1892192 A3	20080514	EP20070024147	20040121
EP1892192 B1	20101201	EP20070024147	20040121
ES2301942 T3	20080701	ES20040250315T	20040121
ES2352034 T3	20110215	ES20060019240T	20040121

ES2354730 T3	20110317	ES20070012833T	20040121
ES2356850 T3	20110413	ES20070024147T	20040121
HK1114070 A1	20110812	HK20080109262	20080819
HK1114070 A1	20081024	HK20080109262	20080819
HK1114070 A3	20081024	HK20080109262	20080819
HK1114070 B	20110812	HK20080109262	20080819
PT1557369 T	20080428	PT20040250315T	20040121
PT1731440 T	20100928	PT20060019240T	20040121
PT1842786 T	20101123	PT20070012833T	20040121
PT1892192 T	20101217	PT20070024147T	20040121
US2004020940 AA	20040205	US20020207786	20020731
US2005127095 AA	20050616	US20050042105	20050126
US2006283881 AA	20061221	US20060465823	20060821
US2009101668 AA	20090423	US20070765090	20070619
US6880735 BB	20050419	US20020207786	20020731
US7156268 BB	20070102	US20050042105	20050126
US7255249 BB	20070814	US20060465823	20060821
US7562795 BB	20090721	US20070765090	20070619
USD493714 S1	20040803	US20030187053F	20030728
UY3437 Q	20040831	UY20040003437F	20040128

Priority:

US20020207786F 20020731	US20020207786 20020731	US20030187053F 20030728
EP20040019240 20040121	EP20040250315 20040121	EP20070012833 20040121
EP20070024147 20040121	EP20060019240 20040121	CA20042456254 20040128
US20050042105 20050126	US20060465823 20060821	US20070765090 20070619

Probable Assignee: GENERAL ELECTRIC CO

Assignee(s): (std): GEN ELECTRIC ; GEN ELECTRIC COMPANY SOC ORGAN ; GEN ELECTRIC CO SOC ORGAN ; WHITNEY PETER M ; MOMENTIVE PERFORMANCE MAT INC

Assignee(s): MOMENTIVE PERFORMANCE MATERIALS INC ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; JPMORGAN CHASE BANK NA AS ADMINISTRATIVE AGENT ; MOMENTIVE PERFORMANCE MATERIALS ; GENERAL ELECTRIC CO SOC ORGANIZADA BAJO LAS LEYES DEL ESTADO DE NUEVA YORK ; GENERAL ELECTRIC COMPANY SOCIEDAD ORGANIZADA BAJO LAS LEYES DEL ESTADO DE NUEVA YORK ; JPMORGAN CHASE BANK NA ; BANK OF NEW YORK MELLON TRUST CO ; BANK OF NEW YORK MELLON TRUST CO NA ; BANK OF NEW YORK MELLON TRUST CO NA COLLATERAL TRU ; BANK OF NEW YORK MELLON TRUST CO NA COLLATERAL TRUSTEE AS ; BANK OF NEW YORK MELLON TRUST CO NA COLLATERAL AGENT AS ; BOKF NA SUCCESSOR COLLATERAL AGENT AS ; GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY

Inventor(s): (std): WHITNEY PETER M

Inventor(s): WHITNEY PETER ; PETER M WHITNEY

Agent(s): CRAIG WILSON AND CO; VILLASECA; HERRMANN UWE ET AL; HERRMANN UWE; CHINAHK INTELLECTUAL PROPERTY SERVICES CO LTD; PHILIP D FREEDMAN PC; PHILIP D FREEDMAN PC, PHILIP D FREEDMAN; PHILIP D FREEDMAN PC PHILIP D FREEDMAN; FREEDMAN PHILIP D; WHEELLOCK KENNETH S; PHILIP D; KENNETH S

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

5) Family number: 71405366 (WO18177519A1)

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Title: PLASTOMER SPRING WITH CAPTIVE VALVE

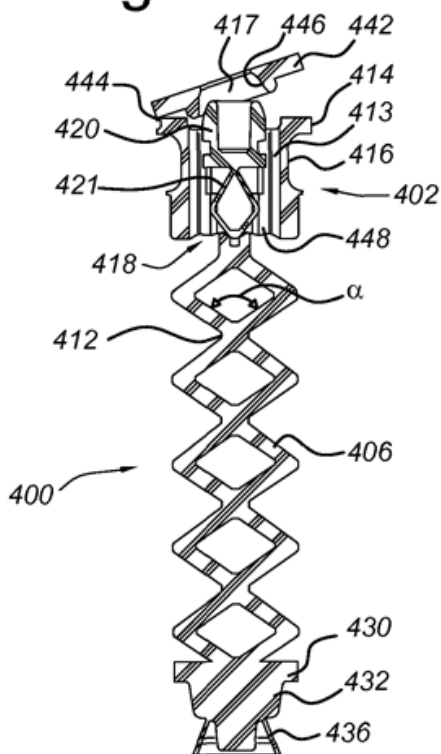
Abstract: The disclosure relates to a fluid pump including a plastomer spring with a captive valve element provided in an integrally formed valve chamber. The spring includes a first end portion and a second end portion and one or more spring sections connecting the first end portion to the second end portion, which spring sections can be compressed in the axial direction from an initial condition to a compressed condition and can subsequently expand to their initial condition. The valve chamber is formed in the first end portion.

Classifications:

International (IPC 8-9): B05B11/00 (Advanced/Invention); A47K5/12 A47K5/14 (Advanced/Non-invention)

CPC: B05B11/3077 A47K5/1207 A47K5/1209 A47K5/14 B05B11/00412 B05B11/0054 B05B11/3029 B05B11/3033 B05B11/3035 B05B11/3064

Fig. 7

**Family:**

Publication number	Publication date	Application number	Application date
WO18177519 A1	20181004	WO2017EP57411	20170329

Priority:

WO2017EP57411 20170329

Probable Assignee: ESSITY HYGIENE AND HEALTH AB**Assignee(s):** (std): ESSITY HYGIENE AND HEALTH AB**Assignee(s):** ESSITY HYGIENE AND HEALTH AKTIEBOLAG**Inventor(s):** (std): BERGMAN PETER ; LINDSTROEM HAKAN ; NILSSON HUGO**Agent(s):** NEDERLANDSCH OCTROOIBUREAU

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC 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

6) Family number: 1400382 (US4330071A)

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Title: DISPENSING DEVICE FOR DISCHARGING A LIQUID OR PASTY PRODUCT FROM A CONTAINER, CONTAINING SUCH A PRODUCT

Abstract: A dispensing device for discharging a liquid or pasty product from a container comprises a valve housing, provided with a vertical through passage for said product, including an upper inlet section for connecting the valve housing to an outlet of a container, a lower outlet section, and an intermediate valve chamber, defined between two resilient disk-like valve members which are spaced apart in the longitudinal direction of said passage and provided with thickened hub portions by which they are mounted on a supporting pin, located centrally within the valve chamber. In order to facilitate a simplified and less expensive manufacture and assembly of the device, the supporting pin is formed integrally with the valve housing which, as a whole, is formed in one single piece. The supporting pin projects upwardly into the valve chamber from a partial bottom wall of the valve housing. Near its lower end, supporting pin has a shoulder on which the hub portion of the lower valve member rests. A retainer, acting on the upper end surface of the hub portion of the upper valve member, is mounted in axially fixed position within the inlet section of the through passage.

Classifications:**International (IPC 8-9):** A47K5/12 B05B11/00 B65D47/34

B65D83/76 G01F11/08 (Advanced/Invention);

B65D83/76 (Advanced/Non-invention);

A47K5/00 B05B11/00 B65D83/76 G01F11/02 (Core/Invention)

International (IPC 1-7): A45D34/00 A47K5/00 A47K5/12 B65D47/20

B65D47/34 B65D83/00 B65D83/14 B67D3/00 B67D5/54 F04B21/02

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G01F11/28

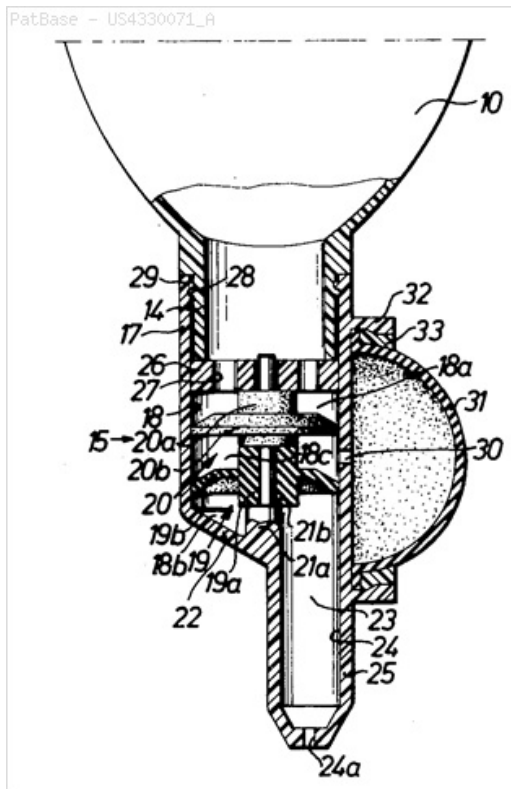
CPC: A47K5/1202 B05B11/00412 B05B11/3064 A47K5/1208

B05B11/3032 G01F11/082

European: A47K5/12C A47K5/12C2 B05B11/00P9P B05B11/30H6

G01F11/08B L05B11/00B5A2 L05B11/30E6

US: 222/207 222/383.1 417/566

**Family:**

Publication number	Publication date	Application number	Application date
AU198063267 A1	19810430	AU19800063267	19801015
AU529382 B2	19830602	AU19800063267	19801015
BE885705 A	19810202	BE19800202463	19801014
CA1131597 A1	19820914	CA19800362330	19801014
CH648472 A	19850329	CH19800007546	19801009
DE3038184 A1	19810423	DE19803038184	19801009
DK147725 B	19841126	DK19800004340	19801014
DK147725 C	19850520	DK19800004340	19801014
DK434080 A	19810416	DK19800004340	19801014
ES495904 A0	19810616	ES19800495904	19801014
ES8106403 A1	19810616	ES19800495904	19801014
FI803246 A	19810416	FI19800003246	19801014
FI803246 L	19810416	FI19800003246	19801014
FR2467174 A1	19810417	FR19800022005	19801015
FR2467174 B1	19831223	FR19800022005	19801015
GB2062771 A1	19810528	GB19800032393	19801008
GB2062771 B2	19830629	GB19800032393	19801008
IT1132947 A	19860709	IT19800025274	19801013
IT8025274 A0	19801013	IT19800025274	19801013
JP56064974 A2	19810602	JP19800144249	19801015
NL8005683 A	19810421	NL19800005683	19801015
NO151607 B	19850128	NO19800003074	19801014
NO151607 C	19850508	NO19800003074	19801014
NO803074 A	19810421	NO19800003074	19801014
SE418569 B	19810615	SE19800007176	19801014
SE418569 C	19810924	SE19800007176	19801014
SE8007176 A	19810416	SE19800007176D	19801014
US4330071 A	19820518	US19800197196	19801015

Priority:

SE19790008510 19791015 CA19800362330 19801014 SE19800007176 19801014

Probable Assignee: TRANAS ROSTFRIA AB

Assignee(s): (std): TRANAS R AB ; TRANAS ROSTFRIA AB ; TRANAAS ROSTFRIA AB ; KEBO PROD AB ; TRANAES ROSTFRIA AB

Assignee(s): TRADE ROSTFRIA RUNDELGATAN AB ; KEBO PRODUCTION AKTIEBOLAG ; TRANAAS ROSTFRIA ; KEBO PROD A B ; TRADE ROSTFRIA AB ; OHLSON GUSTAV O I ; A B TRANAES ROSTFRIA TE TRANAES ZWEDEN ; A B TRANAS ROSTFRIA ; AB TRADE ROSTFRIA ; AB TRANAES ROSTFRIA TE TRANAES ZWEDEN ; AB TRANAOS ROSTFRIA ; AB TRANAS ROSTFRIA ; AKTIEBOLAGET TRANAS ROSTFRIA

Inventor(s): (std): GUSUTAFU ORA INGEMAA ORUSON ; OHLSON GUSTAV O I ; OHLSON GUSTAV OLA INGEMAR ; OHLSON INGEMAR ; OLA GUSTAV ; OHLSON G O I

Inventor(s): OHLSON GUSTAV O I ; INGEMAR OHLSON ; INGEMAR OHLSON GUSTAV OLA ; G O I OHLSON ; GOI OHLSON ; GUSTAV OLA ; GUSTAV OLA INGEMAR OHLSON

Agent(s): FB RICE PTY LTD ; JOHNSON AND HICKS

Title: Pump dispenser

Abstract: An inlet plate 5, having flow passages 6 and non-return inlet valves 9, 10, extends across a container neck 7. A resilient tubular body 1, closed at one end by the inlet valve plate 5, has formed at the other end an end wall 2 having an outlet opening 3 which cooperates with an outlet valve 12 supported on a substantially rigid valve stem 11 extending from the inlet valve plate 5, when the resilient body 1 is in an unstressed state. When the resilient body 1 is squeezed, the inlet valves 9, 10 are sealed against the inlet plate 5 and the outlet opening 3 moves away from the outlet valve 12, allowing a quantity of fluid to be dispensed. The inlet valve may be flexible or rigid.

Classifications:

International (IPC 8-9): A47K5/12 B67D3/02

B67D7/02 (Advanced/Invention);

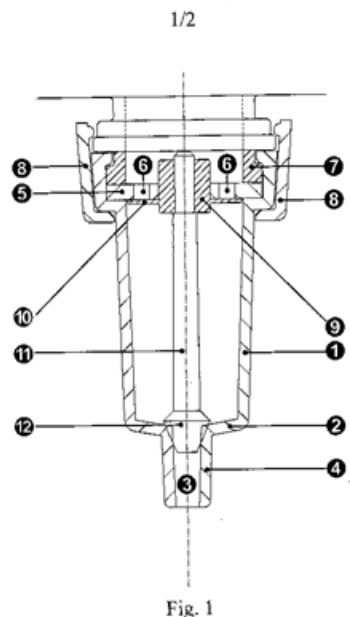
A47K5/00 B67D3/00 B67D7/00 (Core/Invention)

International (IPC 1-7): A47K5/12

CPC: A47K5/1209 B67D3/02 B67D7/0205

European: A47K5/12C2B B67D3/02 B67D7/02B

PatBase - GB2329222_A1



Family:

Publication number	Publication date	Application number	Application date
GB2329222 A1	19990317	GB19970005656	19970319
GB9705656 A0	19970507	GB19970005656	19970319

Priority:

GB19970005656 19970319

Probable Assignee:

BRIGHTWELL DISPENSERS LTD

Assignee(s): (std):

BRIGHTWELL DISPENSERS LTD

Assignee(s):

BRIGHTWELL DISPENSERS LIMITED

Inventor(s): (std):

BARNETT DAVID GRANT

Inventor(s):

DAVID GRANT BARNETT

Title: DISPENSING APPARATUS

Abstract: A dispensing apparatus comprising a container and a pump housing carrying a pressure bulb which, when compressed, effects the discharge of a metered quantity of the product to be dispensed through the positive pressure arising in the pressure bulb at this compression and whereby two valves, arranged in the pump housing are displaced. The pump housing is arranged in a narrow portion or neck of the container which neck has a swelling forming the pressure bulb. The container with its neck and pressure bulb are formed in one piece from non-rigid plastic or rubber materials.

Classifications:

International (IPC 8-9): A47G19/18 A47K5/12 A61F9/00 A61H35/02

A61M3/00 A61M31/00 A61M35/00 B05B11/00 F04B43/00 F04B53/10

G01F11/08 (Advanced/Invention);

A47G19/00 A47K5/00 A61F9/00 A61H35/00 A61M3/00 A61M31/00

A61M35/00 B05B11/00 F04B43/00 F04B53/10

G01F11/02 (Core/Invention)

International (IPC 1-7): A47G19/18 A61J A61M3/00 A61M35/00

B05C9/00 B65D35/28 B65D35/48 B65D37/00 B65D47/00 B65D47/34

B65D83/00 B65D85/70 B67D5/37 F04B43/10 G01F11/08

CPC: A47G19/183 A47K5/12 A61F9/0008 A61H35/02 A61M3/00

A61M31/00 A61M35/003 B05B11/007 B05B11/3032 B05B11/3064

B05B11/3067 B05B11/3069 F04B43/0063 F04B53/1092 G01F11/08

European: A47G19/18B A47K5/12 A61F9/00B A61H35/02 A61M3/00

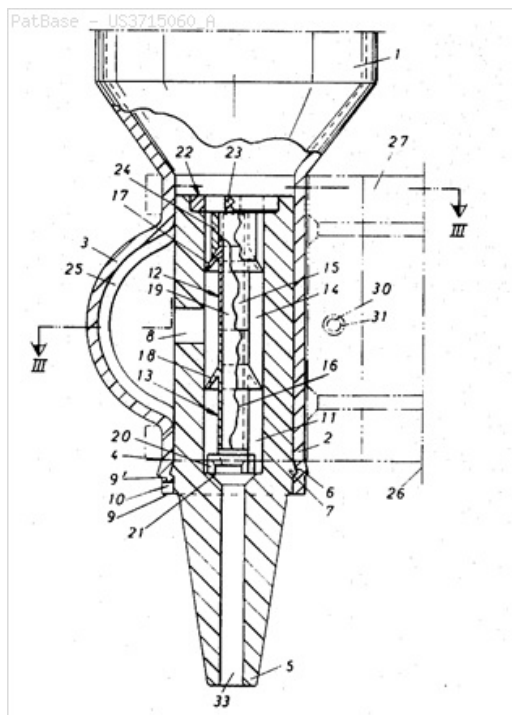
A61M31/00 A61M35/00B B05B11/00B9R B05B11/00P5N

B05B11/00P9P B05B11/00P9R B05B11/00P9R2 B05B11/30E6

B05B11/30H6 B05B11/30H7B B05B11/30H7B2 F04B43/00D8B

F04B53/10T2 G01F11/08

US: 222/20.7 222/207 222/212 222/215



Family:

Publication number	Publication date	Application number	Application date
AT303283 B	19721127	AT19700006231	19700709
BE753938 A	19701231		00000000
BE753938 A1	19701231	BE19700753938	19700724
CA925836 A1	19730508	CA19700089215	19700727
CH508529 A	19710615	CH19700010285	19700707
DE2034113 A1	19710211	DE19702034113	19700709
ES382457 A1	19721116	ES19700382457	19700721
FR2053198 A1	19710416	FR19700027340	19700721
FR2053198 B1	19730525	FR19700027340	19700721
GB1270057 A	19720412	GB19700032779	19700707
LU61272 A	19700910		19700707
NL7010072 A	19710201	NL19700010072	19700708
NO124047 B	19720221	NO19700002772	19700715
SE333624 B	19710322	SE19690010565	19690728
US3715060 A	19730206	US19700059526	19700730

Priority:

SE19690010565 19690728

Probable Assignee: PERPEDOS AB

Assignee(s): (std): PERPEDOS A B ; PERPEDOS AB ; DISPENSO AG

Assignee(s): GUSTAV E V BENSON ; DISPENSO A G ; PERPEDOS AB SW ; PERPEDOS AB FRIDHEMSVAGEN 20 A MALMO SUEDE

Inventor(s): (std): BENSON G ; BENSON G E V ; ERIC VALDEMAR BENSON GUSTAV ; BENSON GUSTAV ERIC VALDEMAR

Inventor(s): BENSON G SW ; GEV BENSON ; GUSTAV E V BENSON ; VALDEMAR BENSON GUSTAV ERIC ; GUSTAV ERIC VALDEMAR BENSON ; G E V BENSON

9) Family number: 57409465 (US2016031597A)

© PatBase

Title: REFILLABLE DEVICE FOR PACKAGING AND DISPENSING A FLUID PRODUCT

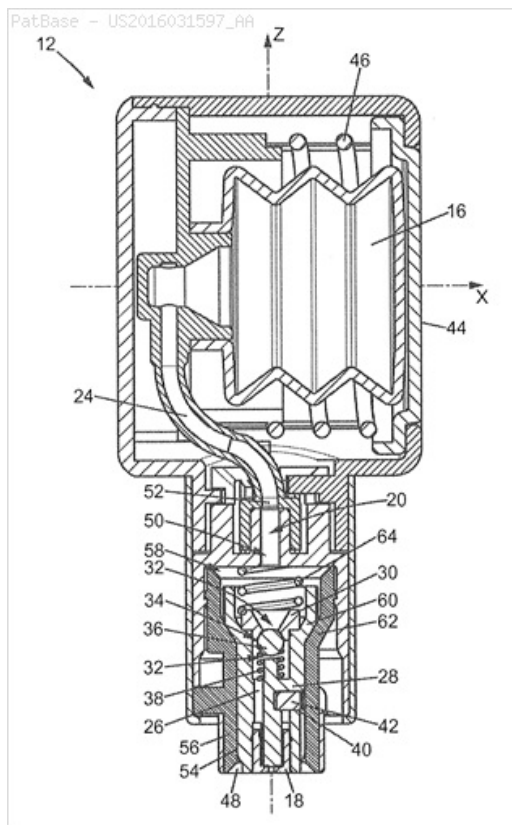
Abstract: A refillable device for packaging/dispensing a fluid product, comprising: a reservoir delimiting a variable interior volume for containing said product; a product distribution nozzle; a product distribution passage connecting the reservoir and the nozzle and provided with a first closure system designed to allow/prevent a flow of product between the reservoir and the nozzle; an opening for filling with product; and a product filling duct connecting the opening and the reservoir and provided with a second closure system designed to allow/prevent a flow of product between the opening and the reservoir, the second closure system being normally kept closed and being designed for opening via cooperation with a product refilling device. The reservoir is positioned in such a way as to accept a force from a user in order to reduce its volume. The nozzle and the opening open onto one and the same face of the refillable device.

Classifications:

International (IPC 8-9): A45D34/02 B05B11/00 B05B11/04 B65D21/08 B65D47/00 B65D83/00 B67C3/00 (Advanced/Invention)

CPC: B65D21/086 B05B11/0097 B05B11/04 B05B11/047 B05B11/048

US: 222/94



Family:

Publication number	Publication date	Application number	Application date
■ CN105307779 A	20160203	CN201480020376	20140305
■ CN105307779 B	20180413	CN201480020376	20140305
■ EP2969241 A1	20160120	EP20140713531	20140305
■ FR3003241 A1	20140919	FR20130052304	20130314
■ FR3003241 B1	20160212	FR20130052304	20130314
■ JP2016512468 T2	20160428	JP20150562275T	20140305
■ JP6415461 B2	20181031	JP20150562275T	20140305
■ KR20160008514 A	20160122	KR20157028809	20140305
■ TW201446333 A	20141216	TW20140108790	20140312
■ TWI642484 B	20181201	TW20140108790	20140312
■ US2016031597 AA	20160204	US20140776544	20140305
■ US10077135 BB	20180918	US20140776544	20140305
■ WO14140454 A1	20140918	WO2014FR50495	20140305

Priority:

FR19N10052304 20130314 FR20130052304 20130314 WO2014FR50495 20140305

Probable Assignee: LOUIS VUITTON MALLETIER

Assignee(s): (std): VUITTON LOUIS SA

Assignee(s): LOUIS VUITTON MALLETIER

Inventor(s): (std): DE ROSA DANIEL ; DUPONT CELINE

Inventor(s): CELINE DUPONT ; DANIEL DE ROSA

Agent(s): CABINET PLASSERAUD; MILLER MATTHIAS AND HULL LLP; LENG VEASNA ET AL

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

10) Family number: 28310526 (US2002122906A)

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Title: MANUFACTURING PROCESS FOR THE BLOWING TECHNIQUE OF A PLASTIC CONTAINER, SPECIFICALLY A SMALL BOTTLE DESIGNED FOR USE IN THE FIELD OF COSMETICS

Abstract: Manufacturing process for the blowing technique of a plastic container and, more specifically, of a small bottle (6) designed for use in cosmetics. The process comprises placement of at least one insert (10) in a mold and to keep the said insert (10) against the internal wall of the mold in such a way as to integrate the said insert (10) in the wall of the bottle (6) during the formation of the said bottle (6) in the said mold.

Classifications:

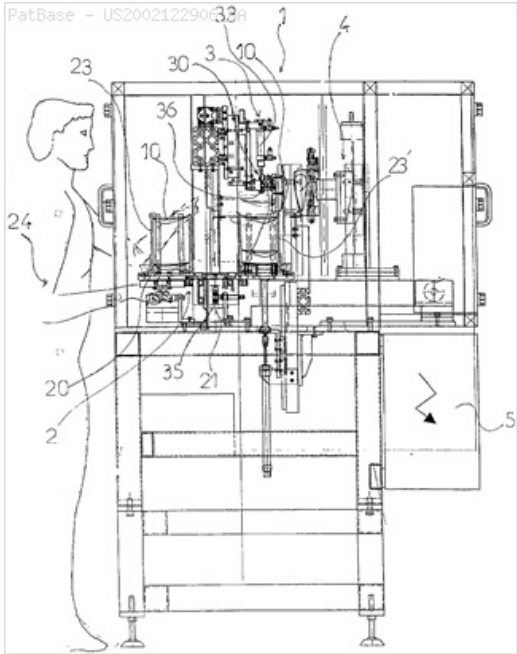
International (IPC 8-9): B29C49/20 B29C49/24 B65D1/02 B65D1/40 (Advanced/Invention);

B29C49/20 B29C49/24 B65D1/02 B65D1/40 (Core/Invention)

International (IPC 1-7): B29C33/18 B29C49/20 B29C49/24 B29K23/00 B29L23/20 B32B1/02

CPC: Y10T428/1352 B29C49/2408 B29C49/20 B29C2049/2017 B29C2049/2073 B29C2049/2449 B29C2049/2472 B29C2049/2495 B29K2023/12 B29L2031/7158 B29L2031/718 B65D1/0207 B65D1/40

European: B29C49/20 B29C49/24B B65D1/02B B65D1/40
L29C49/20B4 L29C49/20G L29C49/24E5 L29C49/24F7 L29C49/24K4
L29K23/12 L29L31/7158 L29L31/718
US: 264/516 264/516S 425/504 425/504S 428/35.7 428/35.700P



Family:

Publication number	Publication date	Application number	Application date
FR2821583 A1	20020906	FR20010003155	20010301
US2002122906 AA	20020905	US20010886799	20010621

Priority:

FR20010003155 20010301

Probable Assignee: QUALIFORM SA

Assignee(s): (std): QUALIFORM

Assignee(s): QUALIFORM SA ; RENNIE PATRICK ; PELLICER ALBERT

Inventor(s): (std): PELLICER ALBERT ; RENNIE PATRICK

11) Family number: 33814561 (WO06122368A1) © PatBase

Title: VALVE STRUCTURES FOR LIQUID DISPENSING

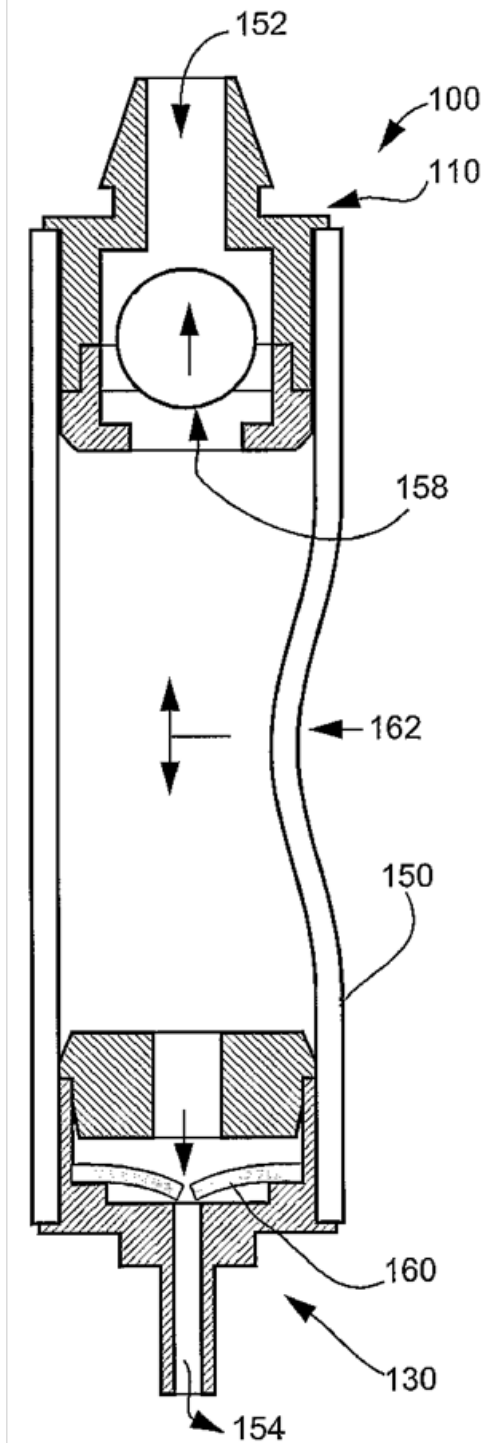
Abstract: Disclosed a valve assembly (100) for the dispensing of a viscous liquid from a reservoir (606). The valve assembly comprises a ball valve (110) coupled to a base of the reservoir and into which the viscous liquid may flow under gravity. A resiliency flexible conduit (150) couples the ball valve to a disc valve (130) and via which the viscous liquid may flow from the ball valve to the disc valve, the disc valve representing an outlet of the valve assembly. Desirably the disc valve has a cruciform slot (137). The valve assembly may be used with either rigid (606) or bag-like (700) reservoirs. Further a valve assembly (800) incorporating only the disc valve may be used with a bag-like reservoir.

Classifications:

International (IPC 8-9): A47K5/12 A47K5/122 A47K5/13 B65D83/00 B65D90/56 B67D3/00 F04B45/06 F16K15/00 (Advanced/Invention); A47K5/00 B65D83/00 B65D90/00 B67D3/00 F04B45/00 F16K15/00 (Core/Invention)

CPC: A47K5/1209 B05B11/3032 F04B15/02 F04B53/102 F16K15/147 F16K27/0209

European: A47K5/12C2B B05B11/00P5N B05B11/30E6 F04B15/02 F04B53/10D F16K15/14H3 F16K27/02B

**Family:**

Publication number	Publication date	Application number	Application date
■ AU2006246989 AA	20061123	AU20060246989	20060518
■ AU2006246989 BB	20120412	AU20060246989	20060518
■ MY142451 A	20101130	MY20060002306	20060519
■ WO06122368 A1	20061123	WO2006AU00664	20060518

Priority:

AU20050902570 20050519 AU20060246989 20060518 WO2006AU00664 20060518

Probable Assignee: CALFARME SINGAPORE PTE LTD

Assignee(s): (std): CALFARME AUSTRALIA PTY LTD ; CALFARME SINGAPORE PTE LTD ; NEO BOON LYE PAUL

Assignee(s): CALFARME PTE LTD ; CALFARME PTY LTD

Inventor(s): (std): NEO BOON LYE PAUL ; PAUL NEO BOON LYE

Inventor(s): BOON LYE PAUL NEO

Agent(s): SPRUSON AND FERGUSON

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 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

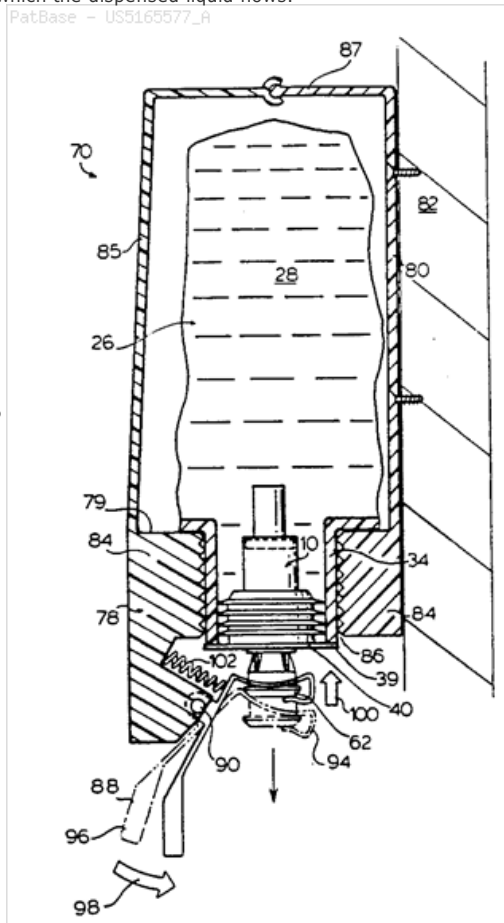
Title: DISPOSABLE PLASTIC LIQUID PUMP

Abstract: A disposable plastic pump for dispensing liquids is disclosed which comprises three basic unitary all plastic elements: a chamber forming body having an open outer end and an inner end in fluid communication with a liquid reservoir, a one-way valve located at the inner end of the chamber between the reservoir and the chamber permitting fluid flow only from the reservoir into the chamber, and a piston formed to slidably fit into the chamber. The piston comprises a stem on which is located an inwardly located flexing element serving as a one-way valve to permit fluid flow outwardly past the flexing element and a sealing element located outwardly of the flexing element. A channel is provided from an inlet on the piston between the flexing element and the sealing element through which the dispensed liquid flows.

Classifications:

International (IPC 8-9): A47K5/12 B05B11/00 B67D1/10 B67D3/02 B67D5/02 B67D5/06 B67D5/42 B67D7/02 B67D7/60 F04B15/00 F04B53/04 F04B53/12 F04B53/14 F04B53/16 F04B9/14 G01F11/02 (Advanced/Invention); F04B53/00 (Advanced/Non-invention); A47K5/00 B05B11/00 B67D1/00 B67D3/00 B67D7/00 F04B15/00 F04B53/10 F04B9/00 G01F11/02 (Core/Invention)
International (IPC 1-7): A47K5/12 B65B31/04 B65D83/00 B67D5/00 B67D5/06 F04B15/00 F04B15/02 F04B21/04 F04B23/02 F04B53/00 F04B53/04 F04B53/12 F04B53/14 F04B9/14 G01F11/00 G01F11/02
CPC: B05B11/3047 B05B11/0059 A47K5/1204 B05B11/00412 G01F11/025 A47K5/1205 A47K5/1207 B05B11/3001 B05B11/3014 F04B9/14 F04B53/123 B05B11/00442
European: A47K5/12C1 A47K5/12C1A A47K5/12C1B B05B11/00B2B B05B11/30C B67D1/10B2 B67D3/02 B67D5/02B F04B53/12F F04B9/14 G01F11/02B8 L05B11/00B5A2 L05B11/00P3L L05B11/30C5E2
US: 222/1 222/181 222/181.1 222/181.2 222/321 222/321.6 222/321.7 222/321.8 222/321.9 222/325 222/340 222/385 222/541.6 222/563 222/83 417/545 417/547 417/550

PatBase - US5165577_A

**Family:**

Publication number	Publication date	Application number	Application date
AT176716 E	19990215	AT19930900029T	19931119
AT189854 E	20000315	AT19960932418T	19961010
AT219907 E	20020715	AT19930250383T	19931119
AT249029 E	20030915	AT19960114240T	19961010
AT256858 E	20040115	AT19960114239T	19961010
AU199454604 A1	19940622	AU19940054604	19931119
AU199671237 A1	19970430	AU19960071237	19961010
AU677616 B2	19970501	AU19940054604	19931119
BRPI9307505 A	19990601	BR1993PI07505	19931119
CA2045313 AA	19921121	CA19912045313	19910624
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CA2149313 AA	19950512	CA19932149313	19931119
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CA2234275 AA	19980408	CA19962234275	19961010
CA2234275 C	20070130	CA19962234275	19961010
CA2521024 AA	19970417	CA19962521024	19961010
CA2521024 C	20091208	CA19962521024	19961010
CA2521026 AA	19970417	CA19962521026	19961010
CA2521026 C	20090908	CA19962521026	19961010
DE0836824 T1	19990225	DE19970250383T	19931119
DE69323502 D1	19990325	DE19936023502	19931119
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DE69332089 T2	20030206	DE19936032089T	19931119
DE69606773 D1	20000330	DE19966006773	19961010
DE69606773 T2	20001026	DE19966006773T	19961010
DE69629850 D1	20031009	DE19966029850	19961010
DE69629850 T2	20040715	DE19966029850T	19961010
DE69631173 D1	20040129	DE19966031173	19961010
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DE9321517 U1	19990211	DE19930021517U	19931119
DK0774074 T3	19990920	DK19940900029T	19931119
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EP0774074 A1	19970521	EP19940900029	19931119
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EP0854685 A1	19980729	EP19960932418	19961010
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EP0956801 A2	19991117	EP19990114240	19961010
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JP8503282 T2	19960409	JP19940512604T	19931119
KR0163245 B1	19990320	KR19950072082	19950523
KR100163245 B1	19990320	KR19950702082	19950523
KR19950704614 A	19951120	KR19950702082	19931119
KR19957004614 A	19951120	KR19957002082	19931119
NZ257809 A	19961126	NZ19930257809	19931119
US5165577 A	19921124	US19910702937	19910520
US5282552 A	19940201	US19920980208	19921123
US5489044 A	19960206	US19940355920	19941214
US5676277 A	19971014	US19950541370	19951010
US5975360 A	19991102	US19970874688	19970613
WO9412791 A1	19940609	WO1993CA00495	19931119
WO9713439 A1	19970417	WO1996CA00683	19961010

Priority:

US19910702937	19910520	CA19912045313	19910624	US19920980208	19921123
EP19940900029	19931119	WO1993CA00495	19931119	EP19970250383	19931119
US19930172289	19931223	US19940355920	19941214	US19950541370	19951010
CA19962234275	19961010	CA19962521024	19961010	CA19962521026	19961010
WO1996CA00683	19961010	EP19960932418	19961010	US19970874688	19970613

Probable Assignee: HYGIENE TECHNIK INC

Assignee(s): (std): HEINER OPHARDT ; HYGIENE TECHNIK INC ; OPHARDT HEINER

Assignee(s): HYGIENE TECHNIK INC BEAMSVILLE ; HYGIENE TECHNIK INC BEAMSVILLE ONTARIO CA

Inventor(s): (std): OPHARDT HEINER ; HEINER OPHARDT

Inventor(s): OPHARDT HEINER VINELAND ONTARIO L0R 2C0 CA

Agent(s): HODGKINSON MCINNES PATENTS; IP SOLVED ANZ PTY LTD; RICHES MCKENZIE AND HERBERT LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN

13) Family number: 22684622 (US3141580A)

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Title: MEASURING PUMP DISPENSER

Abstract: (Claim 1) 1. A dispensing pur_ip for viscose material comprising a collapsible tube container, an am-iular housing mounted at the dispensin.a end of said container, said hotising being of a highly resilient material, ai-i inlet irtto said hous.ing from said container, an outlet from said housig in an end wall thereof opposite said inlet, a valve member slidably mounted in said housing between said inlet and outlet, said valve member normally closin- said outlet, and means for moving said valve from said outlet to said inlet when said housing is squeezed to permit the contents to flow out of said outlet, said means returning said valve to said outlet from said inlet on release of the squeezing action.

Classifications:

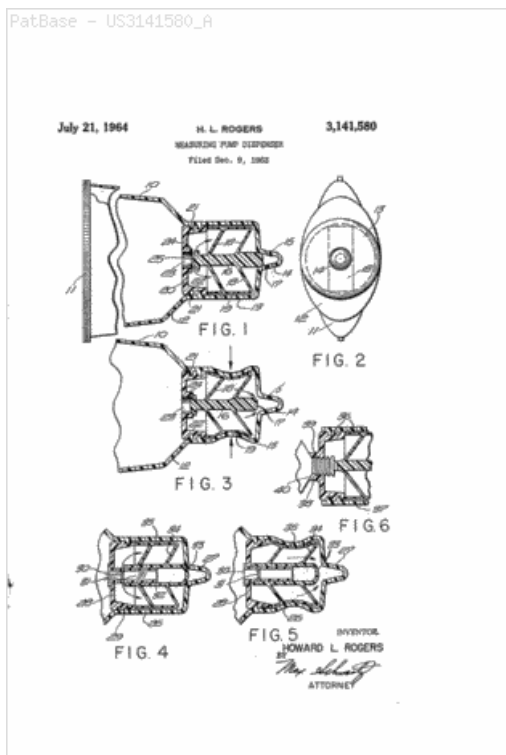
International (IPC 8-9): B65D47/20 G01F11/08 (Advanced/Invention);

B65D47/04 G01F11/02 (Core/Invention)

CPC: B65D47/2062 G01F11/08 G01F11/088

European: B65D47/20E4A G01F11/08 G01F11/08F

US: 222/213 222/453 222/522 417/478 417/566

**Family:**

Publication number	Publication date	Application number	Application date
US3141580 A	19640721	US19630329140	19631209

Priority:

US19630329140 19631209

Probable Assignee:

ROGERS HOWARD L

Assignee(s): (std):

ROGERS HOWARD L

Inventor(s): (std):

ROGERS HOWARD L

14) Family number: 29593648 (US5971645A)

© PatBase

Title: Hand-held container for predissolving detergent composition

Abstract: A hand-held container for predissolving a predetermined amount of detergent with a predetermined amount of solvent comprises a housing, a resilient side wall, and a dispensing passage. The dispensing passage has a flow restriction portion and an applicator at the distal end. The container is intended for use with fluids with a viscosity of less than about 500 cP. When so used, and aligned to a dispensing orientation, fluid flows out of the dispensing passage at a rate from about 0 ml/min to about 300 ml/min, unless manual pressure is exerted on the resilient side wall.

Classifications:**International (IPC 8-9):** A46B15/00 A47L25/08 B65D25/40

B65D47/06 B65D47/42 B65D83/00 B67D3/00 C11D11/00

C11D17/04 D06F39/00 D06F39/02 (Advanced/Invention);

A46B15/00 B65D83/00 B67D3/00 D06F39/00

D06F39/02 (Advanced/Non-invention);

A46B15/00 A47L25/00 B65D25/38 B65D47/00 B65D47/06

B65D83/00 B67D3/00 C11D11/00 C11D17/04 D06F39/00

D06F39/02 (Core/Invention)

International (IPC 1-7): A46B15/00 A47K5/12 A47L23/08 A47L25/08

B43M11/06 B65D25/40 B65D35/36 B65D47/06 B65D47/22

B65D47/42 B65D47/44 B65D81/32 B65D83/00 B67D3/00

C11D11/00 C11D17/04 C11D17/06 D06F39/00 D06F39/02

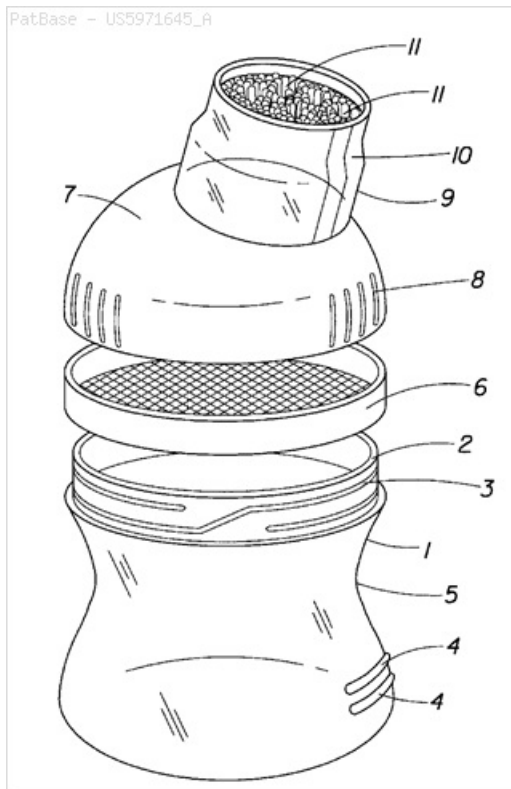
CPC: A47L25/08 B65D25/40 B65D47/06 C11D11/0094 C11D17/041

D06F39/024 B65D47/42

European: A47L25/08 B65D25/40 B65D47/06 B65D47/42

C11D11/00F C11D17/04B D06F39/02C

US: 401/183 401/205 401/41**Locarno class:** 09/03

**Family:**

Publication number	Publication date	Application number	Application date
AR009996 AA	20000517	AR1997P104762	19971015
AR009997 AA	20000517	AR1997P104763	19971015
AR009998 AA	20000517	AR1997P104764	19971015
AR009999 AA	20000517	AR1997P104765	19971015
AU199737444 A1	19980511	AU19970037444	19970805
AU199738273 A1	19980511	AU19970038273	19970805
AU199739077 A1	19980511	AU19970039077	19970805
AU199740518 A1	19980511	AU19970040518	19970805
AU199854373 A1	19990301	AU19980054373	19971112
BRPI9712337 A	19990831	BR1997PI12337	19970805
BRPI9712338 A	19990831	BR1997PI12338	19970805
CN1086670 C	20020626	CN19971080495	19970805
CN1239873 A	19991229	CN19971080508	19970805
CN1239924 A	19991229	CN19971080495	19970805
CN1491864 A	20040428	CN20011039473	19970805
CN3126251 D	19991103	CN19983022303F	19980205
EP0932556 A1	19990804	EP19970934367	19970805
EP1014847 A1	20000705	EP19970938115	19970805
EP1024736 A1	20000809	EP19970948280	19971112
JP10512836 T2	19981208	JP19970536156T	19961015
JP2000503951 T2	20000404	JP19980518313T	19970805
JP2000504064 T2	20000404	JP19980518311T	19970805
JP2000504969 T2	20000425	JP19980518314T	19970805
JP2000510902 T2	20000822	JP19980518312T	19970805
JP2001513471 T2	20010904	JP20000506874T	19971112
US5971645 A	19991026	US19970922554	19970903
WO9816148 A1	19980423	WO1997US13731	19970805
WO9816437 A1	19980423	WO1996US16403	19961015
WO9816438 A1	19980423	WO1997US13730	19970805
WO9816622 A1	19980423	WO1997US13728	19970805
WO9816623 A1	19980423	WO1997US13729	19970805
WO9907275 A1	19990218	WO1997US20777	19971112

Priority:

WO1996US16403 19961015	WO1997US13728 19970805	WO1997US13729 19970805
WO1997US13730 19970805	WO1997US13731 19970805	US19970922554 19970903
WO1997US20777 19971112		

Probable Assignee: PROCTER AND GAMBLE CO**Assignee(s):** (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; TANEKO AKIKO ; THE PROCTER AND GAMBLE COMPANY**Assignee(s):** THE PROCTER AND GAMBLE CO**Inventor(s):** (std): A TANEKA ; A TANEKO ; A TANICO ; AKIKO TANEKO ; AYAKO MURAMATSU ; FUKUSCHMA K ; FUKUSHIMA K ; FUKUSHIMA KIMIKO ; HARRY LEROY COLEMAN JR ; K FUKUSCHMA ; K FUKUSHIMA ; KENJI SHINDO ; KIMIKO FUKUSHIMA ; NABIL YAQUB SAKKAB ; NANLO Y ; NANNO Y ; NANNO YUKIO ; SUSUMU MURATA ; TANEKA A ; TANEKO A ; TANEKO AKIKO ; TANICO A ; Y NANLO ; Y NANNO ; YUKIO NANNO ; SHINDO KENJI ; SAKKAB NABIL YAQUB ; MURATA SUSUMU ; MURAMATSU AYAKO ; COLEMAN HARRY LEROY JR**Agent(s):** NAGAI HIROSHI

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

15) Family number: 65322679 (US2018289222A)

© PatBase

Title: PUMP FOR DISPENSING FLUIDS

Abstract: A pump for dispensing a fluid product from a product container, includes a unitary pump body defining an axis and including a pump chamber, a pump inlet and a pump outlet. The pump chamber is collapsible over an axially directed pumping stroke from an initial condition to a collapsed condition and is biased to return to its initial condition in a return stroke. An axially compressible spring is arranged to at least partially support the pump body during its collapse.

Classifications:

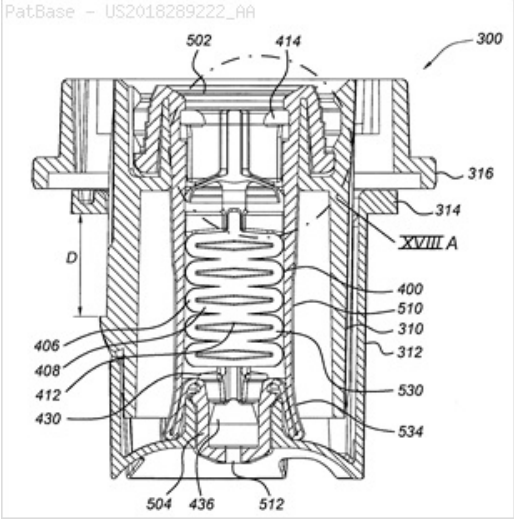
International (IPC 8-9): A47K5/12 A47K5/14

B05B11/00 (Advanced/Invention)

CPC: B05B11/0043 A47K5/1207 A47K5/1209 B05B11/00412

B05B11/0054 B05B11/3029 B05B11/3033 B05B11/3035

B05B11/3064 B05B11/3077 A47K5/14



Family:

Publication number	Publication date	Application number	Application date
AU2015410275 AA	20180426	AU20150410275	20150925
AU2015410275 AA	20170330	AU20150410275	20150925
CA2999188 AA	20180320	CA20152999188	20150925
CN108136422 A	20180608	CN201580084003	20150925
CO20180004219 A2	20180710	CO20180004219	20180420
EP3352908 A1	20180801	EP20150771085	20150925
MX2018003521 A1	20180911	MX20180003521	20150925
US2018289222 AA	20181011	US20150762827	20150925
US10213062 BB	20190226	US20150762827	20150925
WO17050390 A1	20170330	WO2015EP72143	20150925

Priority:

WO2015EP72143 20150925

Probable Assignee: SCA HYGIENE PROD AB

Assignee(s): (std): ESSITY HYGIENE AND HEALTH AB ; SCA HYGIENE PRODUCTS AB ; SCA HYGIENE PROD AB

Assignee(s): NILSSON HUGO ; ESSITY HYGIENE AND HEALTH AKTIEBOLAG ; LINDSTROM HAKAN ; BERGMAN PETER

Inventor(s): (std): BERGMAN PETER ; HAKAN LINDSTROEM ; HUGO NILSSON ; LINDSTROEM HAKAN ; NILSSON HUGO ; PETER BERGMAN ; LINDSTROM HAKAN

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; RIDOUT AND MAYBEE LLP; JOSE ANDRES RINCON USCATEGUI; NEDERLANDSCH OCTROOIBUREAU; DRINKER BIDDLE AND REATH 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

16) Family number: 11131711 (US2005035157A)

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Title: PUMP FOR DISPENSING FLOWABLE MATERIAL

Abstract: The invention relates to a dispensing device which can be used to dispense a metered volume of a flowable material such as a liquid, gel or paste product from a reservoir. The invention provides a pump (101) for dispensing a flowable material from a container, the pump including a pump body (102) which is deformable between a rest configuration and a squeezed configuration, the internal capacity of the pump body being substantially reduced in the squeezed configuration compared to the rest configuration. The pump includes a unidirectional valve to allow ingress of the flowable material into the pump body from the container and an outlet (104) to allow egress of flowable material from the pump body such that squeezing of the pump body dispenses the flowable material from the container. The pump assembly includes a sealing member (130) located within the pump body and mounted for translational movement. The sealing member (130) includes a nose (132) which seats against the internal wall (133) of the pump body to seal the outlet (104).

Classifications:

International (IPC 8-9): B05B11/00 B65D25/40 B65D35/28

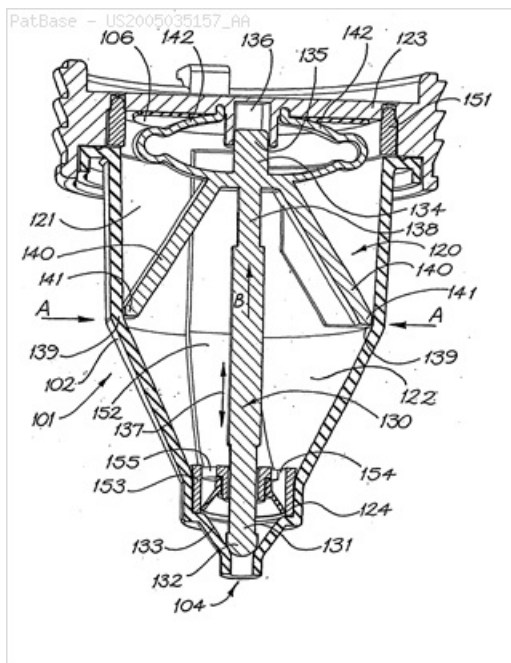
B65D47/22 B65D47/34 B65D47/40 B65D83/00 B65D85/72

F04B43/08 F04B9/14 (Advanced/Invention);

B05B11/00 B65D35/24 B65D47/34 B65D83/00 B65D85/72

F04B43/00 F04B9/00 (Core/Invention)

International (IPC 1-7): B65D35/28 B65D37/00 B65D47/34
B65D83/00 B65D85/72 B67D3/00
CPC: B05B11/0059 B05B11/0075 B05B11/3032 B05B11/3053
B05B11/3077 F04B9/14 F04B43/08
European: B05B11/00B6 B05B11/00B9V B05B11/30E6
B05B11/30H3B B05B11/30H8F F04B43/08 F04B9/14
US: 222/207 222/212 222/380 222/518 222/559



Family:

Publication number	Publication date	Application number	Application date
AU2000008558 A0	20000727	AU2000PQ08558	20000704
AU2001268841 AA	20020114	AU20010268841	20010704
AU2001268841 BB	20070301	AU20010268841	20010704
AU200168841 A1	20020114	AU20010068841	20010704
AU200168841 A5	20020114	AU20010068841	20010704
AU855800 A0	20000727	AU2000PQ08558	20000704
CA2466527 AA	20040507	CA20012466527	20010704
EP1444141 A1	20040811	EP20010947045	20010704
EP1444141 A4	20061213	EP20010947045	20010704
HK1067882 A3	20050422	HK20050101151	20050212
US2005035157 AA	20050217	US20010496937	20010704
US6971553 BB	20051206	US20010496937	20010704
WO20202423 A1	20020110	WO2001AU00801	20010704

Priority:

AU2000PQ08558 20000704 AU20010068841 20010704 WO2001AU00801 20010704

Probable Assignee: BREWER P R

Assignee(s): (std): BRENNAN J W ; BRENNAN JAMES WILLIAM ; BREWER P R ; BREWER PETER RUSSELL ; JAMES BRENNAN ; PETER BREWER

Assignee(s): PETER RUSSELL BREWER ; JAMES WILLIAM BRENNAN

Inventor(s): (std): BRENNAN JAMES WILLIAM ; BREWER PETER RUSSELL

Inventor(s): JAMES WILLIAM BRENNAN ; PETER RUSSELL BREWER ; BREWER PETER ; BRENNAN JAMES

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; BLAKE CASSELS AND GRAYDON LLP; WEBB ZIESENHEIM LOGSDON ORKIN AND HANSON PC; WEBB LAW FIRM

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 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 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

17) Family number: 33120745 (EP1681001A2)

© PatBase

Title: DISPENSER FOR HYGIENIC PRODUCTS

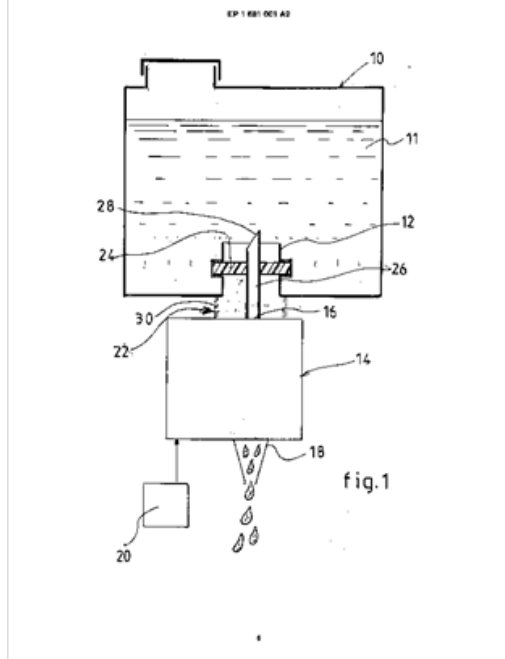
Abstract: The dispenser has a controllable motor unit (48) mounted in cooperation with a piston (46), and constituted by an electric supply source (60) controllable from a control input (62). The unit (48) has a field coil (66) coupled with a magnetic core (64) and connected to output of the source. A treating unit (68) has a prohibiting unit to prohibit the source from supplying the field coil during a determined time constant.

Classifications:

International (IPC 8-9): A47K5/12 B65D47/36
B65D83/76 (Advanced/Invention);
A47K5/00 B65D47/00 B65D83/76 (Core/Invention)

CPC: A47K5/1208 A47K5/1217

European: A47K5/12C2 A47K5/12E

**Family:**

Publication number	Publication date	Application number	Application date
EP1681001 A2	20060719	EP20060290081	20060113
FR2880872 A1	20060721	FR20050000447	20050117

Priority:

FR20050000447 20050117 FR20050500447 20050117

Probable Assignee: LE VIVIER**Assignee(s):** (std): BONVALET CHANTAL ; GUEURY BRUNO ; LE VIVIER ; SERERO ROBERT**Inventor(s):** (std): BONVALET CHANTAL ; GUEURY BRUNO ; SERERO ROBERT**Designated states:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR**18) Family number: 54270788** (US2013175301A)

© PatBase

Title: LIQUID DISPENSER PUMP

Abstract: Liquid dispenser systems, pumps for use in liquid dispenser systems, and disposable/replaceable liquid container units for use in liquid dispenser systems are disclosed. A refill unit for refilling a liquid dispenser system comprises a container for holding a supply of liquid and a pump connected to the container. The pump comprises a fitment portion configured for attachment to a liquid container, and a pump portion which comprises an upper valve member and a lower valve member disposed along a common **longitudinal** axis, such that the fitment portion and the pump portion are formed as one integral piece.

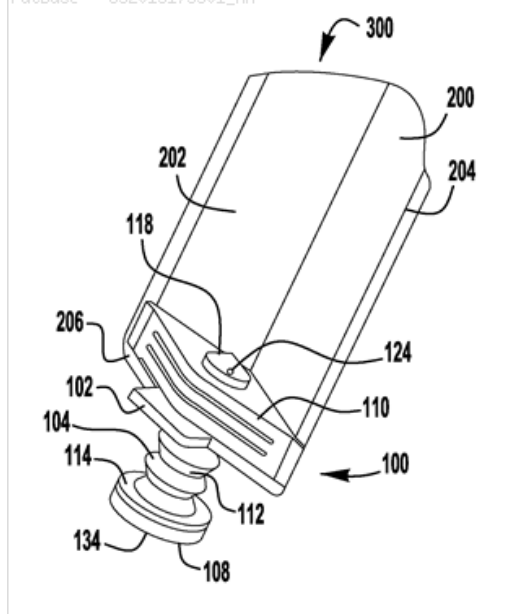
Classifications:

International (IPC 8-9): A47K5/12 B05B1/30 B05B1/32 B05B11/00 B65D37/00 B65D83/00 B67D3/02 F04B43/00 G01F11/08 (Advanced/Invention)

CPC: B65D83/0094 B05B1/306 B05B1/326 B05B11/0037 B05B11/0054 B05B11/3035 B05B11/3064 F04B43/0054 B05B11/3043

US: 1/1 222/207 222/325 417/472

PatBase - US2013175301_AA

**Family:**

Publication number	Publication date	Application number	Application date
TW201350071 A	20131216	TW20130100023	20130102

US2013175301 AA	20130711	US20130733979	20130104
US9073685 BB	20150707	US20130733979	20130104
WO13103670 A1	20130711	WO2013US20079	20130103

Priority:

US20120583673P 20120106 US20130733979 20130104

Probable Assignee: GOJO IND INC

Assignee(s): (std): GOJO IND INC ; RAY EUGENE W

Assignee(s): PNC BANK NATIONAL ASSOCIATION AGENT AS

Inventor(s): (std): RAY EUGENE W

Agent(s): CALFEE HALTER AND GRISWOLD LLP; BONNER CHET J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN 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 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

19) Family number: 30508790 (US3709015A)

© PatBase

Title: TOOL FOR THE CHIPLESS WORKING AND DEBURRING OF GEARS

Abstract: A tool for chiplessly roll forming teeth on a workpiece wherein the edges between the tooth surfaces and the top lands are sharp so that burrs otherwise created on the workpiece dedendum are removed.

Classifications:

International (ipc 8-9): B21H5/02 B23F19/04 (Advanced/Invention); B21H5/00 B23F19/00 (Core/Invention)

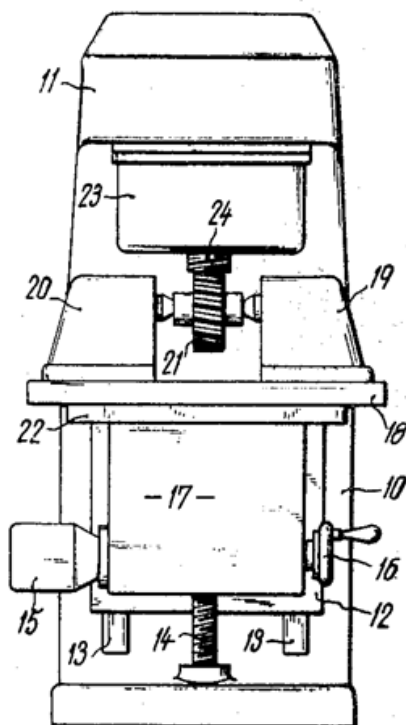
International (ipc 1-7): B21H5/02 B23F19/00 B23F21/00 B23F21/28 B23F5/00

CPC: B21H5/022 B23F19/04

European: B21H5/02B B23F19/04

US: 72/102 72/464 72/469 72/71

PatBase - US3709015_A



Family:

Publication number	Publication date	Application number	Application date
DE6939109 U	19710304	DE1969039109U	19691008
DE7004013 U	19710218	DE1970004013U	19700205
FR2062780 A5	19710625	FR19700035183	19700929
GB1270075 A	19720412	GB19700047985	19701008
SU364146 D	19721225	SU19701481321	19700929
US3709015 A	19730109	US19700078454	19701006

Priority:

DE19690039109U 19691008 DE19696939109U 19691008 DE19700004013U 19700205
DE19707004013U 19700205

Probable Assignee: CARL HURTH MACHINEN U

Assignee(s): (std): HURTH MASCH ZAHNRAD CARL

Assignee(s): CARL HURTH MACHINEN U ; CARL HURTH MASCHINEN UND ZAHNRADFABRIK ; HURTH C MASCHINEN UND ZAHNRADFAB DT ; HURTH CARL MASCHINEN ZAH

Inventor(s): (std): LOOS H

Inventor(s): LOOS H DT

20) Family number: 15876860 (US2005115984A)

© PatBase

Title: DISPENSER PUMPS

Abstract: A pump dispenser suitable for dispensing toothpaste in which a pump chamber has a resiliently flexible flap outlet valve leading into a discharge passage leading to a discharge nozzle. The discharge nozzle features a closure valve, in the form of a concave wall with radial slits, which opens only under appreciable forward pressure. When released, the closure valve closes and retracts forcibly, giving a clean cut-off of product and a degree of backflow via the large outlet valve area of the flap valve as it closes.

Classifications:

International (IPC 8-9): B05B11/00 B65D83/76 B65D88/54 B67D5/42 (Advanced/Invention);

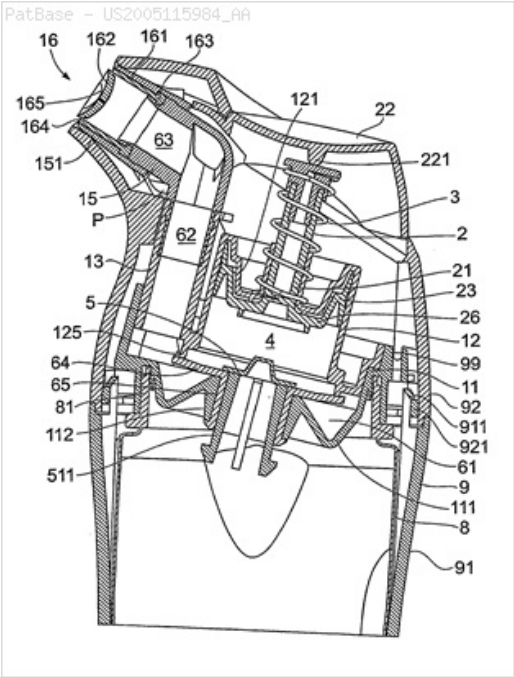
B05B11/00 B65D88/00 (Core/Invention)

International (IPC 1-7): B05B11/00 B65D35/28 B65D83/76 B67D5/40 B67D5/42

CPC: B05B1/265 B05B11/3067 B05B11/3084 B05B11/00412 B05B11/007 B05B11/0072 B05B11/0075 B05B11/3001 B05B11/3011 B05B11/3047 B05B11/3074

European: B05B1/26A1 B05B11/00B5A2 B05B11/00B9R B05B11/00B9T B05B11/00B9V B05B11/30C B05B11/30C5B B05B11/30H1D2 B05B11/30H7B B05B11/30H8B L05B11/00B5A2

US: 222/105 222/321.7 222/380 222/383.1 222/383.100 222/383.100S 222/494 222/95 222/95P



Family:

Publication number	Publication date	Application number	Application date
AT457833 E	20100315	AT20020800187T	20020927
CA2462187 AA	20040331	CA20022462187	20020927
DE60235391 D1	20100401	DE20026035391	20020927
EP1438143 A1	20040721	EP20020800187	20020927
EP1438143 B1	20100217	EP20020800187	20020927
GB200123537 A0	20011121	GB20010023537	20011001
GB200123538 A0	20011121	GB20010023538	20011001
GB200123539 A0	20011121	GB20010023539	20011001
US2005115984 AA	20050602	US20020490406	20020927
US7500582 BB	20090310	US20020490406	20020927
WO03028898 A1	20030410	WO2002GB04407	20020927
WO03028899 A1	20030410	WO2002GB04425	20021001
WO03028900 A1	20030410	WO2002GB04429	20021001

Priority:

GB20010023537 20011001 GB20010023538 20011001 GB20010023539 20011001
WO2002GB04407 20020927

Probable Assignee: RIEKE PACKAGING SYSTEMS LTD

Assignee(s): (std): RIEKE PACKAGING SYSTEMS LTD ; PRITCHETT DAVID JOHN ; LAW BRIAN ROBERT ; SPENCER JEFFREY WILLIAM ; RENFREW BRUCE ; HARRISON PAUL ; BOX MARK

Assignee(s): CEQUENT CONSUMER PRODUCTS INC ; CEQUENT PERFORMANCE PRODUCTS INC ; CEQUENT TOWING PRODUCTS INC ; ARROW ENGINE CO ; BANK OF NEW YORK MELLON TRUST CO NA SECOND LIEN AG ; BANK OF NEW YORK MELLON TRUST CO NA SECOND LIEN AGENT AS ; BEAUMONT BOLT AND GASKET INC ; JPMORGAN CHASE BANK NA ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; COMPAC CORP ; CONSUMER PRODUCTS INC ; CUYAM CORP ; DEW TECHNOLOGIES INC ; DI RITE CO ; DRAW TITE INC ; ENTEGRA FASTENER CORP ; FULTON PERFORMANCE PRODUCTS INC ; HAMMERBLOW ACQUISITION CORP ; HAMMERBLOW CO LLC ; HI VOL PRODUCTS LLC ; INDUSTRIAL BOLT AND GASKET INC ; KEO CUTTERS INC ; PRITCHETT DAVID J ; LAW BRIAN R ; SPENCER JEFFREY W ; RIEKE PACKAGING SYSTEMS LIMITED ; LAKE ERIE PRODUCTS CORP ; LAMONS GASKET CO ; LAMONS METAL GASKET CO ; LOUISIANA HOSE AND RUBBER CO ; MONOGRAM AEROSPACE FASTENERS INC ; NETCONG INVESTMENTS INC ; NI IND INC ; NI WEST INC ; NORRIS CYLINDER CO ; NORRIS ENVIRONMENTAL SERVICES INC ; NORRIS IND INC ; PLASTIC FORM INC ; REESE PRODUCTS INC ; RESKA SPLINE PRODUCTS INC ; RICHARDS MICRO TOOL INC ; RIEKE CORP ; RIEKE LEASING CO INC ; RIEKE OF INDIANA INC ; RIEKE OF MEXICO INC ; TOWING HOLDING LLC ; TRIMAS CO LLC ; TRIMAS CORP ; TRIMAS INT HOLDINGS LLC ; WESBAR CORP

Inventor(s): (std): BOX MARK ; HARRISON PAUL ; LAW BRIAN R ; LAW BRIAN ROBERT ; PRITCHETT DAVID J ; PRITCHETT DAVID JOHN ; RENFREW BRUCE ; SPENCER JEFFREY W ; SPENCER JEFFREY WILLIAM

Inventor(s): SPENCER JEFFREY ; PRITCHETT DAVID ; LAW BRIAN

Agent(s): BERESKIN AND PARR LLP SENCRL SRL ; STONER GERARD PATRICK ; FAY SHARPE FAGAN MINNICH AND MCKEE LLP ; WOODARD EMHARDT MORIARTY MCNETT AND HENRY 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 VC VN YU ZA ZM ZW

Title: DOSING PUMP FOR LIQUID DISPENSERS

Abstract: A dispenser for dispensing metered amounts of a viscous liquid includes a liquid reservoir and a pump chamber having an opening in communication with the reservoir. A dispensing orifice is defined in the pump chamber. A pump mechanism is configured with the pump chamber and is movable from a rest position to a pressurizing position upon actuation thereof to pressurize liquid within the pump chamber. A check valve mechanism is disposed in the opening. A sealing member is disposed within the pump chamber to seal the dispensing orifice upon an initial movement of the pump mechanism to its pressurizing position. The sealing member is moveable within the pump chamber upon subsequent further movement of the pump mechanism to its pressurizing position to unseal the dispensing orifice. Upon initial return movement of the pump mechanism to its rest position, the sealing member remains unsealed relative to the dispensing orifice as a partial vacuum is drawn in the pump chamber and then moves to seal the dispensing orifice upon further subsequent movement of the pump mechanism to its rest position.

Classifications:

International (IPC 8-9): A47K5/12 B05B11/00

B65D47/34 (Advanced/Invention);

A47K5/12 (Advanced/Non-invention);

A47K5/00 B05B11/00 (Core/Invention)

International (IPC 1-7): A47K5/12 B05B11/00 B65D47/34

B65D88/54 B67D88/54 G01F11/42

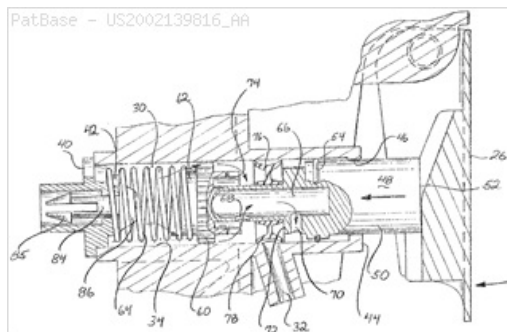
CPC: A47K5/1204 B05B11/3011 B05B11/3015 B05B11/3067

B05B11/3094 B05B11/3097 B05B11/3098

European: A47K5/12C1 B05B11/30C6 B05B11/30H7B B05B11/30R

B05B11/30T B05B11/30V L05B11/30C5B

US: 222/181.2 222/341 222/383.1 222/383.100S

**Family:**

Publication number	Publication date	Application number	Application date
AU2002255601 AA	20021015	AU20020255601	20020220
BRPI0208401 A	20040803	BR2002PI08401	20020220
CA2441250 AA	20030915	CA20022441250	20020220
EP1372450 A1	20040102	EP20020725006	20020220
KR20030085068 A	20031101	KR20037012678	20020220
MXPA03008243 A1	20040129	MX2003PA08243	20020220
US2002139816 AA	20021003	US20010821835	20010330
US6540117 BB	20030401	US20010821835	20010330
WO02078502 A1	20021010	WO2002US05698	20020220
WO02078502 C1	20050317	WO2002US05698	20020220
ZA200307027 A	20040909	ZA20030007027	20030909

Priority:

US20010821835 20010330 WO2002US05698 20020220

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): KIMBERLY CLARK CO

Assignee(s): KIMBERLY CLARK CORP ; KIMBERLY CLARK WORLDWIDE INC ; POWLING DAVID J

Inventor(s): (std): POWLING DAVID J

Inventor(s): DAVID J POWLING

Agent(s): FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS PATENT ATTORNEY S; FPA PATENT ATTORNEYS PTY LTD; BORDEN LADNER GERVAIS 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 UZ VN YU ZA ZM ZW

Title: DEVICE AND METHOD FOR INCLUDING INSERTS IN BLOW MOLDED PLASTIC ELEMENTS

Abstract: A device for including inserts (300) in plastic elements blow molded in molding machines (100), having a head (101) crossed by an axial hole (102) and having molding means (107) and lower blow means (108), includes insert holder means (1) connected to the lower end of rod means (2) joined at the upper portion to support means (3) fixed to the upper end of the head (101). The rod means (2) are fitted in the axial hole (102) and extend over the head (104) and the insert holder means (1) hold the inserts (300) during the molding in correspondence of related housings carried out in the molding means (107) and release said inserts (300) in correspondence of the opening of these latter.

Classifications:

International (IPC 8-9): B29C49/04 B29C49/20 B29C49/42

B29C49/58 (Advanced/Invention);

B29C49/04 B29C49/58 B29K105/20 (Advanced/Non-invention);

B29C49/04 B29C49/20 B29C49/42 (Core/Invention);

B29C49/04 B29C49/58 (Core/Non-invention)

International (IPC 1-7): B29C49/04 B29C49/20 B29C49/42

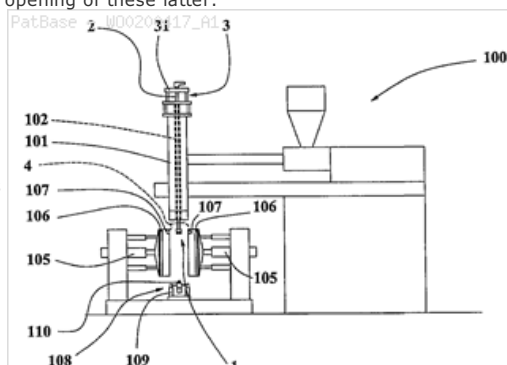
B29K105/20

CPC: B29C49/04 B29C49/20 B29C49/42 B29C49/58 B29C2049/2008

B29C2049/2047 B29C2049/2082

European: B29C49/20 B29C49/42 L29C49/04 L29C49/20B2

L29C49/20D10 L29C49/20G2 L29C49/58

**Family:**

Publication number	Publication date	Application number	Application date
AT287787 E	20050215	AT20010940902T	20010625
AU200174390 A1	20020108	AU20010074390	20010625
AU200174390 A5	20020108	AU20010074390D	20010625
BRPI0112569 A	20040727	BR2001PI12569	20010625
BRPI0112569 B1	20120207	BR2001PI12569	20010625
CA2412509 AA	20021211	CA20012412509	20010625
CA2412509 C	20100914	CA20012412509	20010625
DE60108632 D1	20050303	DE20016008632T	20010625
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DE60108632 T2	20060330	DE20016008632T	20010625
EP1296811 A1	20030402	EP20010940902	20010625
EP1296811 B1	20050126	EP20010940902	20010625
ES2234843 T3	20050701	ES20010940902T	20010625
IT1321300 B1	20040108	IT2000BO00372	20000626
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JP2004515379 T2	20040527	JP20020505182T	20010625
JP4902085 B2	20120321	JP20020505182T	20010625
WO0200417 A1	20020103	WO20011B01116	20010625

Priority:

IT2000BO00372 20000626 WO20011B01116 20010625

Probable Assignee: FERNO WASHINGTON ITALIA SRL

Assignee(s): (std): BRUNI RAFFAELLO ; FERNO WASHINGTON ITALIA S R L ; LAPINI ALESSANDRO ; FERNO WASHINGTON ITALIA SRL

Assignee(s): FERNO WASHINGTON ITALIA S R L PRATO

Inventor(s): (std): LAPINI ALESSANDRO ; BRUNI RAFFAELLO ; LAPPINI ALESSANDRO ; BRUNI RAFAELLO

Inventor(s): RAFAELLO BRUNI ; RAFFAELLO BRUNI ; ALESSANDRO LAPINI ; ALESSANDRO LAPPINI

Agent(s): APT PATENT AND TRADE MARK ATTORNEYS; BORDEN LADNER GERVAIS 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 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 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

23) Family number: 19172927 (WO9946179A1)

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Title: DISPENSING CONTAINER

Abstract: The invention concerns a dispensing container (1) provided with a dispensing outlet (9) which is closed, on the inside, with a plug (10). Said plug (10) must be displaced, to open the container, inwards thereof, by lever actuating, and the container comprises a wall capable of elastically recovering its shape. In order to make the container easier to use, the invention proposes that a displacing lever (5) should comprise a projecting support section (20) designed to be urged to rest on the wall (2) internal surface.

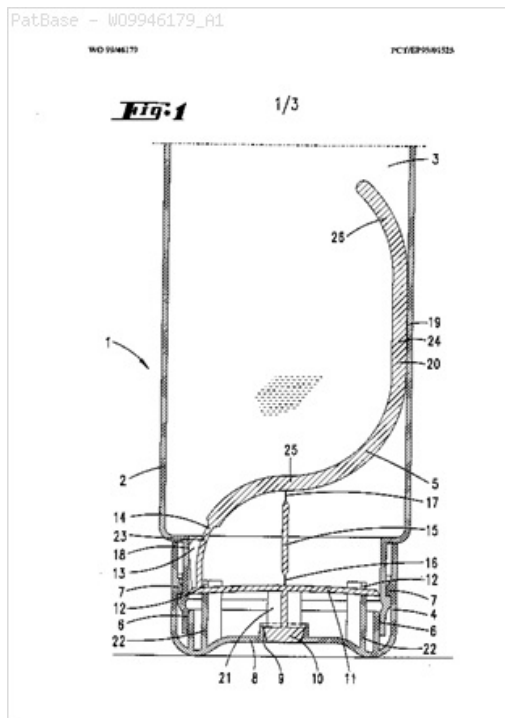
Classifications:

International (IPC 8-9): B65D47/20 (Advanced/Invention); B65D47/04 (Core/Invention)

International (IPC 1-7): B65D1/32 B65D35/50 B65D39/16 B65D47/20 B65D83/00

CPC: B65D47/2062

European: B65D47/20E4A



Family:

Publication number	Publication date	Application number	Application date
AU199937018 A1	19990927	AU19990037018	19990309
DE19842539 A1	19990916	DE19981042539	19980917
DE19980364 D2	20010531	DE19991080364	19990309
WO9946179 A1	19990916	WO1999EP01525	19990309

Priority:

DE19981009797 19980309 DE19981042539 19980917 WO1999EP01525 19990309
DE19991080364 19990309

Probable Assignee: ALPLA DESIGN LEHNER GMBH

Assignee(s): (std): ALPLA DESIGN LEHNER GMBH ; SUFFA UDO

Assignee(s): ALPLA WERKE ALWIN LEHNER GMBH AND CO KG

Inventor(s): (std): SUFFA UDO ; UDO SUFFA

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
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 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 UA
UG US UZ VN YU ZW

24) Family number: 31882997 (US2005098580A)

© PatBase

Title: DISPENSER CONTAINER

Abstract: A container used in connection with a dispenser, the container having one or more projections extending outwardly therefrom and engagable with the interior of the dispenser to secure the container in the dispenser.

Classifications:

International (IPC 8-9): A47K5/06 A47K5/12 B65D1/02 B65D1/42
B65D77/04 (Advanced/Invention);

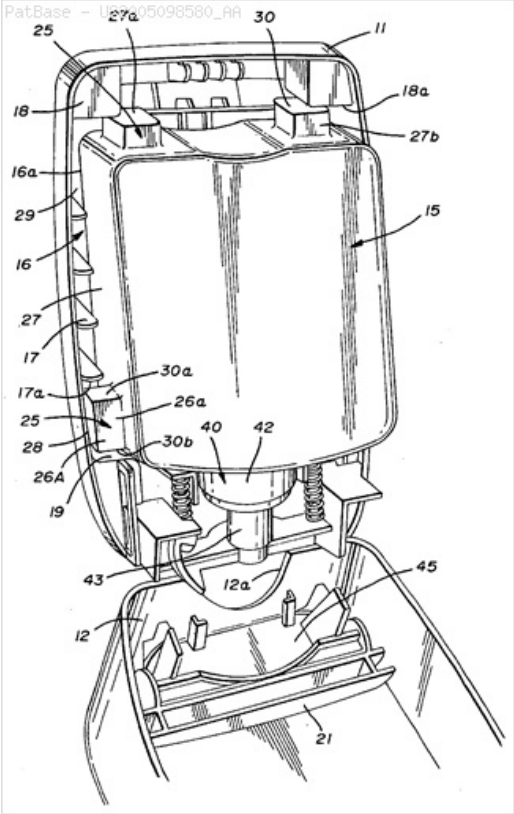
A47K5/00 B65D1/02 B65D1/40 B65D77/04 (Core/Invention)

International (IPC 1-7): A47K5/06 A47K5/12 B67D5/06

CPC: A47K5/1202 B65D1/42 B65D77/0493

European: A47K5/12C B65D1/42 B65D77/04F1A

US: 222/183



Family:

Publication number	Publication date	Application number	Application date
CA2542543 AA	20060412	CA20042542543	20041105
EP1680001 A1	20060719	EP20040810452	20041105
TW200526163 A	20050816	TW20040133951	20041105
TWI258354 B	20060721	TW20040133951	20041105
US2005098580 AA	20050512	US20030702334	20031106
WO05046415 A1	20050526	WO2004US37034	20041105

Priority:

US20030702334 20031106 WO2004US37034 20041105

Probable Assignee: KANFER JOSEPH S

Assignee(s): (std): CIAVARELLA NICK ; CIAVARELLA NICK E ; KANFER JOSEPH ; KANFER JOSEPH S

Inventor(s): (std): CIAVARELLA NICK ; CIAVARELLA NICK E

Agent(s): SIM AND MCBURNEY; RENNER KENNER GREIVE BOBAK TAYLOR AND WEBER

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
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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
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ZA ZM ZW