

1) Family number: 28641036 (US4775555A)

© PatBase

Title: APPARATUS AND PROCESS FOR MAKING LOCKING NUTS

Abstract: A process and apparatus for manufacturing self-locking fasteners in which a resin deposit of patch is applied to a portion of the threads. A resin stream entrained in a gaseous jet is directed through a nozzle which is an axial registration with the fastener. The nozzle has an end wall and an arcuate slot therein which directs application of the entrained resin to the threads of the fastener in a controlled manner.

Classifications:

International (IPC 8-9): B05B13/06 B05B7/14 B05C19/04 B05D1/02 B05D1/12 B05D3/02 B05D5/08 B05D7/22 F16B33/06 F16B39/22 F16B39/34 (Advanced/Invention);

B05D1/02 B05D1/12 B05D3/02 F16B39/22 F16B39/34 (Advanced/Non-invention);

B05B13/06 B05C19/00 B05D1/12 B05D7/22

F16B33/00 (Core/Invention);

B05D1/02 B05D3/02 F16B39/00 (Core/Non-invention)

International (IPC 1-7): B05B1/04 B05B12/00 B05B13/06 B05B7/14 B05C19/04 B05D1/02 B05D1/12 B05D3/02 B05D5/08 B05D7/22 B05D7/24 B21D53/20 B21D53/52 B23G1/00 B23G11/00 B23G7/00 B23P11/02 B23P25/00 B29C63/26 F16B25/00 F16B33/06 F16B37/00 F16B39/22 F16D33/06

CPC: Y10S411/914 Y10S470/906 B05B1/265 B05B1/267 B05B13/06 B05B13/0654 B05D1/02 B05D3/0218 B05D7/22 B05D2258/02 B05D2401/32 B05D2506/15 F16B33/06 F16B39/225 F16B39/34 Y10S411/903 Y10T29/49885 Y10T29/49963 Y10T29/49982

European: B05B13/06 B05B13/06D2 B05D7/22 F16B33/06 L05D1/02 L05D258/02 L05D3/02R L05D401/32 L05D506/15 R16B33/06 R16B39/22B R16B39/34

US: 10/10P 118/308 118/312 239/589 239/597 29/458 29/525.11 29/527.2 41/142.8 41/387 41/387.1 41/411 41/428 41/903 41/914 427/183 427/195 427/235 427/236 427/239 427/295 427/318 427/421 427/424 427/425 470/2 470/906

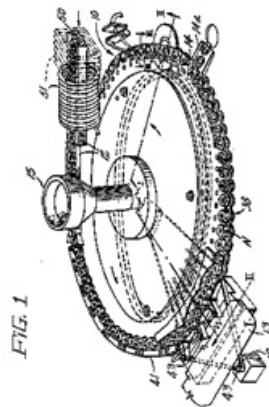
PatBase - US4775555_A

U.S. Patent

Oct. 4, 1988

Sheet 1 of 9

4,775,555



Family:

Publication number	Publication date	Application number	Application date
AU198778411 A1	19880317	AU19870078411	19870915
AU199178078 A1	19910905	AU19910078078	19910530
AU614937 B2	19910919	AU19870078411	19870915
AU644655 B2	19931216	AU19910078078	19910530
BRPI8704772 A	19880503	BR1987PI04772	19870915
CA1275600 A1	19901030	CA19870546626	19870910
CA1295518 A1	19920211	CA19870615885	19870910
CA1295518 A2	19920211	CA19900615885	19901005
DE3751736 D1	19960418	DE19873751736	19870915
DE3751736 T2	19961017	DE19873751736T	19870915
EP0260657 A2	19880323	EP19870113478	19870915
EP0260657 A3	19881026	EP19870113478	19870915
EP0260657 B1	19960313	EP19870113478	19870915
ES2083950 T3	19960501	ES19870113478T	19870915
IL83852 A0	19880229	IL19870083852	19870910
JP2564566 B2	19961218	JP19870231963	19870916
JP63214372 A2	19880907	JP19870231963	19870916
KR19880003682 A	19880528	KR19870010177	19870915
KR920007957 B1	19920919	KR19870010177	19870915
MX160073 A	19891121	MX19870008304	19870914
US4775555 A	19881004	US19860907582	19860915
US4835819 A	19890606	US19860913339	19860930
US5221170 A	19930622	US19910716761	19910618
US5221170 B1	19950801	US19910716761	19910618
USRE33766 B2	19980113	US19900601321	19901022
USRE33766 E	19911210	US19900601321	19901022
USRE33766 F1	19980113	US19900601321	19901022

Priority:

US19860907582 19860915	US19860913339 19860930	CA19870546626 19870910
CA19875466261 19870910	CA19870615885 19870910	AU19870078411 19870915
US19880281633 19881209	US19900601321 19901022	US19910716761 19910618

Probable Assignee: NYLOK FASTENER CORP

Assignee(s): (std): NYLOK FASTENER CORP ; DUFFY RICHARD J

Assignee(s): DUFFY RICHARD JOSEPH ; DUDLEY JOSEPH R ; NAIROTSUKU FUASUNAA CORP ; NAIROTSUKU FASTENER CORP ; NYLOK FASTENER CORP ROCHESTER MICH US ; NYLOK CORP ; FRUEHE GREGORY A

Inventor(s): (std): DUFFY RICHARD J ; DUDLEY JOSEPH R ; FRUEHE GREGORY A ; DORFLINGER MAX F ; GUREGORII EI FURUEIHE ; JOSEFU AARU DADORII ; DUFFY RICHARD JOSEPH ; DUFFY RICHARD ; FRUEHO GREGORY A ; JIYOSEFU AARU DADORII ; JOSEPH R DUDLEY ; RICHARD DUFFY ; RICHARD JOSEPH DUFFY ; GREGORY A FRUEHE ; FRUEHE GREGORY A FRUEHE GREGOR ; DUFFY RICHARD JOSEPH DUFFY RIC ; DUDLEY JOSEPH R DUDLEY JOSEPH

Inventor(s): DUFFY RICHARD JOSEPH DUFFY RICHARD JOSEPH... ; DUFFY RICHARD JOSEPH DUFFY RICHARD JOSEPH UTICA MICHIGAN 48087 US ; DUFFY RICHARD JOSEPH DUFFY RICHARD JOSEPH UTICA MI

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FINLAYSON AND SINGLEHURST

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

2) Family number: 3772178 (US5038752A)

© PatBase

Title: Boiling water dispenser having improved water temperature control system

Abstract: A sensor assembly for boiling water dispenser includes clamping members for mounting a sensor such as a thermister in position to sense the presence and absence of steam.

Classifications:

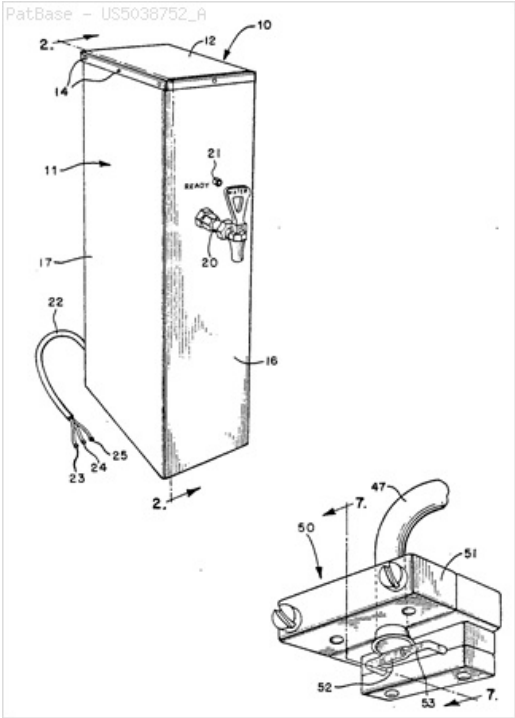
International (ipc 8-9): A47J27/21 A47J31/56 F24H9/20 G01K1/14 G05D23/20 H05B3/82 (Advanced/Invention); A47J27/21 A47J31/44 F24H9/20 G01K1/14 (Core/Invention)

International (ipc 1-7): A47J27/21 A47J31/56 F22B35/02 F22B37/00 F24D1/00 F24H9/20 G01K1/00 G01K1/14 G05D23/20 H05B1/02 H05B3/82

CPC: A47J27/21066

European: A47J27/21B4A

US: 126/351.1 126/369 126/374 219/494 338/22R 338/23 338/24



Family:

Publication number	Publication date	Application number	Application date
CA2025341 AA	19910426	CA19902025341	19900913
CA2025341 C	19950314	CA19902025341	19900913
DE4031081 A1	19910502	DE19904031081	19901002
DE4031081 C2	20001123	DE19904031081	19901002
DK173207 B1	20000320	DK19900002379	19901002
DK173363 B1	20000814	DK19980001680	19981218
DK199801680 A	19981218	DK19980001680	19981218
DK237990 A	19910426	DK19900002379	19901002
DK237990 A0	19901002	DK19900002379	19901002
FI904846 A0	19901002	FI19900004846	19901002
FR2653532 A1	19910426	FR19900012433	19901009
FR2653532 B1	19950602	FR19900012433	19901009
JP2759558 B2	19980528	JP19900273490	19901015
JP3186153 A2	19910814	JP19900273490	19901015
NO302442 B1	19980302	NO19900004593	19901024
NO306962 B1	20000117	NO19950000364	19950131
NO904593 A	19910426	NO19900004593	19901024
NO904593 A0	19901024	NO19900004593	19901024
NO904593 L	19910426	NO19900004593	19901024
NO950364 A	19910426	NO19950000364	19950131
NO950364 A0	19950131	NO19950000364	19950131
NO950364 L	19910426	NO19950000364	19950131
SE512247 C2	20000221	SE19900003389	19901024
SE9003389 A	19910426	SE19900003389	19901024
SE9003389 A0	19901024	SE19900003389	19901024
SE9003389 L	19910426	SE19900003389	19901024
US5038752 A	19910813	US19890426784	19891025

Priority:

US19890426784 19891025
NO19900004593 19901024

CA19902025341 19900913

DE19904042726 19901002

Probable Assignee: BUNN O MATIC CORP

Assignee(s): (std): BUNN O MATIC COPORATION ; BUNN O MATIC CORP ; BUNN O MATIC CORP EINE GES NAC

Assignee(s): BUNN O MATIC CORP EINE GES NACH DEN GESE ; BUNN O MATIC CORP EINE GES NACH DEN
GESETZEN DES STAATES DELAWARE SPRINGFIELD ILL US ; BUNN O MATIC CORP EINE GES NACH DEN
GESETZEN DES STAATES DELAWARE SPRINGFIELD ; ANSON JAMES H ; BAN OO MATEITSUKU CORP ;
BUN O MACHITSUKU CORP

Inventor(s): (std): ANSON J H ; JIEIMUSU EICHI ANSON ; ANSON JAMES H

Inventor(s): JEIMUSU EICHI ANSON ; J H ANSON ; ANSON JAMES H AUBURN ILL US ; JAMES H ANSON

Agent(s): SMART AND BIGGAR

3) Family number: 26835186 (US2006231577A)

© PatBase

Title: VISCOUS LIQUID DISPENSING PUMP

Abstract: A dispensing pump (12) for a viscous liquid comprises a cylinder (16), a piston (24) mounted for reciprocation within said cylinder (16), an inlet (50) for admitting liquid to be dispensed into said cylinder (16) and a ball check valve (52) arranged selectively to open and close said inlet opening. The ball valve (52) is retained in position by a spring (58) having a variable diameter. The piston (24) has a dispensing passage (40) in fluid communication with said cylinder (16) and with a self sealing dispensing valve (38). The pump (12) further comprises a sliding cut-off valve (70) arranged selectively to open and close fluid communication between the piston dispensing passage (40) and the cylinder (16) as the piston (24) reciprocates within the cylinder (16).

Classifications:

International (ipc 8-9): A47K5/12 B05B11/00 B65D47/34 B67D5/42
G01F11/00 (Advanced/Invention);
B05B11/00 B65D47/34 B65D83/76 F04B33/00 (Advanced/Non-
invention);

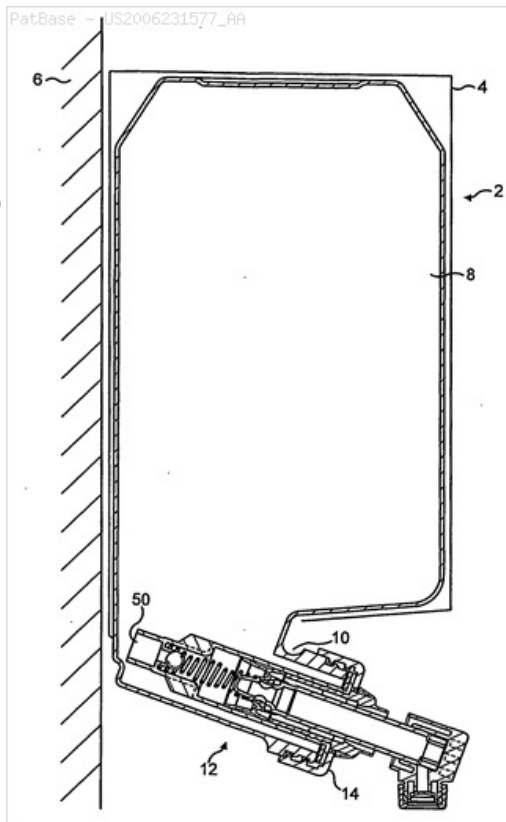
A47K5/00 B05B11/00 G01F11/00 (Core/Invention)

International (ipc 1-7): A47K5/00 A47K5/12 B05B11/00 B65D47/34
B65D83/76

CPC: A47K5/1204 A47K5/1205 B05B11/00412 B05B11/3023

European: A47K5/12C1 A47K5/12C1A B05B11/00P3T B05B11/30C9
L05B11/00B5A2

US: 222/321.9 222/321.900P



Family:

Publication number	Publication date	Application number	Application date
AU2003279449 AA	20040607	AU20030279449	20031031
BRPI0315909 A	20050920	BR2003PI15909	20031031
CA2504790 AA	20050503	CA20032504790	20031031
EP1565272 A2	20050824	EP20030772397	20031031
GB200225641 A0	20021211	GB20020025641	20021104
GB2394941 A1	20040512	GB20020025641	20021104
GB2394941 B2	20050216	GB20020025641	20021104
KR20050072783 A	20050712	KR20057007815	20031031
MXPA05004731 A1	20050803	MX2005PA04731	20031031
US2006231577 AA	20061019	US20030533205	20031031
WO04041047 A2	20040521	WO2003GB04700	20031031
WO04041047 A3	20040826	WO2003GB04700	20031031

Priority:

GB20020025641 20021104 WO2003GB04700 20031031

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): KIMBERLY CLARK WORLDWIDE INC ; POWLING DAVID JAMES S ; POWLING DAVID JAMES SEALY ;
ZUBILLAGA JESUS MARIA ; KIMBERLY CLARK CO

Assignee(s): KIMBERLY CLARK CORP

Inventor(s): (std): JESUS MARIA ZUBILLAGA ; DAVID JAMES SEALY POWLING ; POWLING DAVID JAMES S ; ZUBILLAGA
JES S MARIA ; POWLING DAVID JAMES SEALY ; ZUBILLAGA JESUS MARIA

Inventor(s): JES³S MARIA ZUBILLAGA ; JES S MARIA ZUBILLAGA ; POWLING DAVID JAMES

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS PATENT ATTORNEY S; FPA PATENT ATTORNEYS PTY LTD; BORDEN LADNER GERVAIS LLP; DORITY AND MANNING PA

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

4) Family number: 3032218 (US5094364A) © PatBase

Title: PROTECTIVE OVERCAP AND WIPER FOR DISPENSER DISCHARGE ORIFICE

Abstract: A removable overcap for a finger actuated pump dispenser surround the plunger head and is frictionally mounted in place on the pump body. An upper portion of the overcap side wall bears against an orifice cup located in the head, the cup containing a discharge orifice through which product is dispensed with the overcap removed. In conditions of non-use, the overcap covers the orifice to prevent drying of product. And, the overcap wipes the orifice clean of any accumulated product each time the overcap is removed and reapplied over the dispenser.

Classifications:

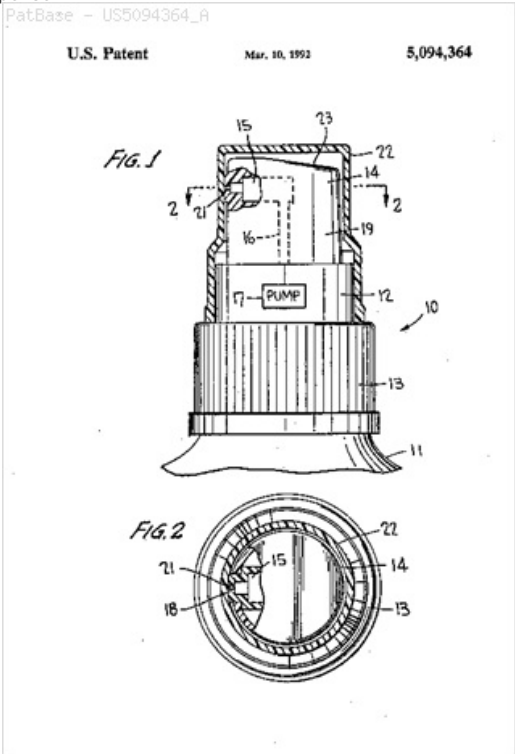
International (IPC 8-9): B05B11/00 B05B15/02 B65D47/34
B65D83/34 B65D83/40 B65D83/76 (Advanced/Invention);
B05B15/02 (Advanced/Non-invention);
B05B11/00 (Core/Invention);
B05B15/02 (Core/Non-invention)

International (IPC 1-7): B05B11/00 B05B15/02 B05B9/043
B65D41/62 B65D47/34 B65D83/34 B65D83/40 B65D83/76 B67D5/00

CPC: B05B15/52 B05B11/0027 B05B11/30

European: B05B11/00B3 B05B15/02A L05B11/30 L05B15/02A

US: 222/148 222/321 222/321.3 222/342



Family:

Publication number	Publication date	Application number	Application date
AU199178375 A1	19911219	AU19910078375	19910614
AU639568 B2	19930729	AU19910078375	19910614
CA2044708 AA	19911216	CA19912044708	19910614
EP0461895 A2	19911218	EP19910305349	19910613
EP0461895 A3	19920304	EP19910305349	19910613
JP4227085 A2	19920817	JP19910166447	19910611
JP7012453 B4	19950215	JP19910166447	19910611
US5094364 A	19920310	US19900538736	19900615

Priority:

US19900538736 19900615 CA19912044708 19910614

Probable Assignee: CALMAR INC

Assignee(s): (std): CALMAR INC

Assignee(s): CALMAR INC A CORP OF DE ; CALMAR INC A DE CORP ; KARUMAA INC ; KNICKERBOCKER MICHAEL G ; UNITED STATES TRUST CO ; MELLON BANK NA ; MELLON BANK NA COLLATERAL AGENT AS ; UNITED STATES TRUST CO OF NEW YORK ; BANQUE INDOSUEZ AS COLLATERAL AGENT ; BANQUE INDOSUEZ COLLATERAL AGENT AS

Inventor(s): (std): KNICKERBOCKER MICHAEL GENE ; KNICKERBOCKER MICHAEL G ; MAIKERU JII NITSUKAABOTSUKAA

Inventor(s): MICHAEL G KNICKERBOCKER

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; FINCHAM ERIC

Designated states: BE DE ES FR GB IT NL SE

5) Family number: 29188329 (US5839617A) © PatBase

Title: Pump dispenser

Abstract: Lotion pump has a stepped piston telescoping inside a stepped body to define a pumping chamber. The piston has in the wall of the piston inlet and discharge apertures, one above the other, to the pumping chamber. A stem integral with the actuator spout has a sealing head inside the piston which shuttles back and forth between positions at which it covers one aperture or the other. Shuttling is implemented by lost-motion between the actuator spout/stem and piston. A spring urges the stem up at all times.

Classifications:

International (IPC 8-9): A47K5/12 B05B11/00 B65D47/00 B65D47/34 B65D83/14 B67D5/00 B67D99/00 F04B9/14 F04F1/06 G01F11/02 (Advanced/Invention); B05B11/00 B65D47/34 B67D99/00 F04B9/00 F04F1/00 G01F11/02 (Core/Invention)

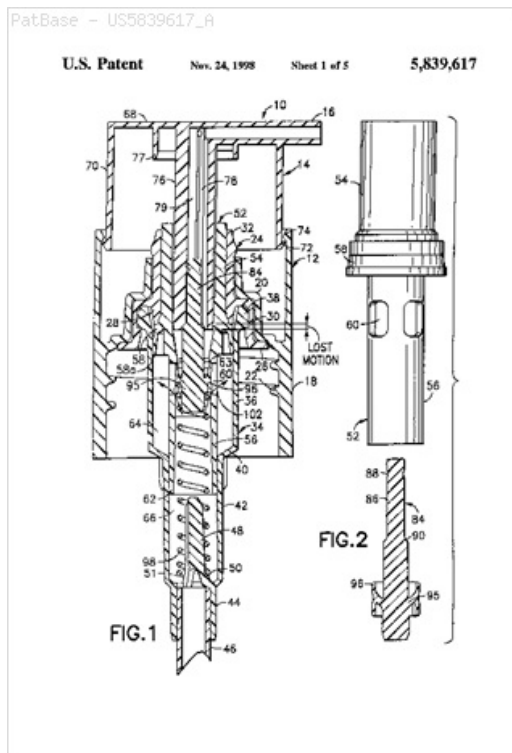
International (IPC 1-7): A45D33/02 A45D34/04 B05B11/00 B05B11/02 B65D47/34 B65D83/16 B67D1/00 B67D5/00 B67D5/42 F04B33/00 F04B9/14 F04F1/06 G01F11/04 G01F11/38

CPC: B05B11/3023 G01F11/028

European: B05B11/00P3T B05B11/00T B05B11/30C9

G01F11/02B8D

US: 222/321.9



Family:

Publication number	Publication date	Application number	Application date
AR013262 AA	20001213	AR1998P103701	19980728
AU199878535 A1	19990211	AU19980078535	19980728
AU731545 B2	20010405	AU19980078535	19980728
BRPI9802671 A	19991123	BR1998PI02671	19980729
CA2243915 AA	19990129	CA19982243915	19980727
CL1998001806 A1	19990222	CL19980001806	19980728
CN1209413 A	19990303	CN19981017537	19980728
CO4840535 A1	19990927	CO19980042942	19980728
EP0894538 A2	19990203	EP19980114161	19980729
EP0894538 A3	19990901	EP19980114161	19980729
JP11153084 A2	19990608	JP19980247690	19980729
JP3051722 B2	20000612	JP19980247690	19980729
NZ331117 A	20000128	NZ19980331117	19980727
TW421636 B	20010211	TW19980112435	19980729
US5839617 A	19981124	US19970902027	19970729

Priority:

US19970902027 19970729 CA19982243915 19980727

Probable Assignee: WESTROCK DISPENSING SYSTEMS INC

Assignee(s): (std): OWENS ILLINOIS CLOSURE INC ; OWENS ILLINOIS PACKAGE PRODUCT ; OWENS ILLINOIS PLASTIC PROD

Assignee(s): OWENS ILLINOIS PACKAGE PRODUCTS INC ; OWENS ILLINOIS PLASTIC PRODUCTS INC ; OAK HILL SECURITIES FUND LP ; CONTINENTALAFA DISPENSING CO ; HARBINGER CAPITAL PARTNERS MASTER FUND I LTD ; CONTINENTAL SPRAYERS INT ; CONTINENTAL SPRAYERS INT INC A DELAWARE CORP ; MEADWESTVACO CALMAR INC ; WACHOVIA CAPITAL FINANCE (CENTRAL) CORP ; WACHOVIA CAPITAL FINANCE CORP ; WACHOVIA CAPITAL FINANCE CENTRAL CORP ; WESTROCK DISPENSING SYSTEMS INC ; AFA PRODUCTS INC ; AFA PRODUCTS INC DELAWARE CORP ; BLISS EARNEST E III ; CATER MIRO S ; CIT GROUP BUSINESS CREDIT INC ; CIT GROUP BUSINESS CREDIT INC COLLATERAL AGENT AS

Inventor(s): (std): CATER MIRO S ; BLISS EARNEST E III ; KARTER M S ; BRISS E E III ; BLISS III EARNEST E ; BLISS EARNEST E ; MIRO S CATER ; EARNEST E BLISS III

Inventor(s): M S KARTER ; E E BRISS III

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON; RAMIRO CASTRO DUQUE

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

6) Family number: 3507417 (EP0498275A1)

© PatBase

Title: A PUMP DISPENSER AND A PRIMARY VALVE THEREOF

Abstract: A primary valve (46) is made of elastic material and consists of a tubular valve body (48) and a flared body (50) integrally formed together with the valve body (48), and flaring outwardly thereof so as to cause elasticity. The flared body (50) is provided at an end thereof with a flange (50a) which is pressed against the wall surface (47a) of a valve seat (47) under the elasticity of the flared body (50) so as to close the primary valve (46). As liquid is raised through a suction tube

(44), it acts on the flared body (50) through a passage (52a) formed in the valve body (48) and a through hole (47b) formed in the valve seat (47), flexes the flared body (50) and separates the flange (50a) from the wall surface (47a) of the valve seat (47) to open the primary valve (46).

Classifications:

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

F16K15/14 (Advanced/Invention);

B05B11/00 B65D47/34 F16K15/14 (Core/Invention)

International (IPC 1-7): B05B11/00 B65D47/34 B67D1/00

F16K15/14 F16K15/18

CPC: B05B11/3001 B05B11/3046 B05B11/3047 B05B11/306

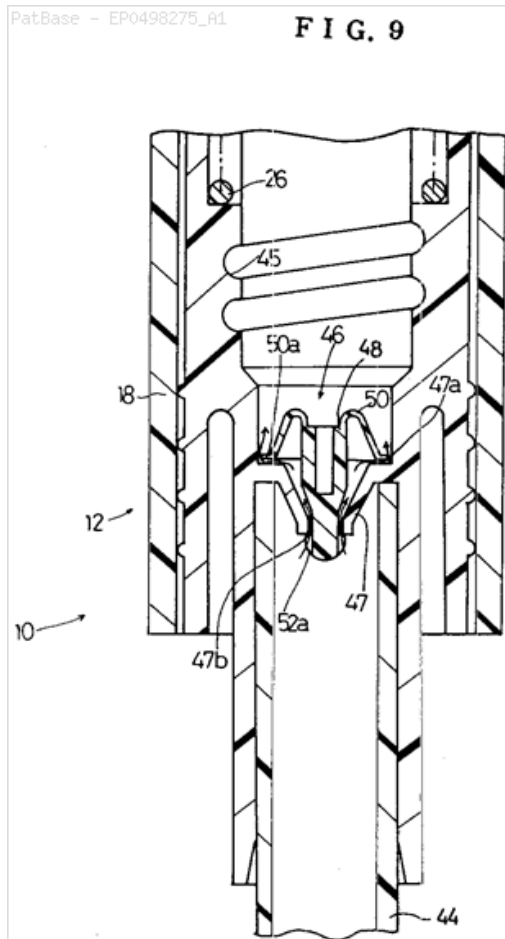
B05B11/3067 B05B11/3069 F16K15/148

European: B05B11/00P3 B05B11/00P9B4 B05B11/00P9B4B

B05B11/00P9J2 B05B11/00P9R B05B11/00P9R2 B05B11/30C

B05B11/30H1D B05B11/30H1D2 B05B11/30H4B B05B11/30H7B

B05B11/30H7B2 F16K15/14J



Family:

Publication number	Publication date	Application number	Application date
AU199210523 A1	19920813	AU19920010523	19920129
AU641078 B2	19930909	AU19920010523	19920129
EP0498275 A1	19920812	EP19920101383	19920128
JP4267757 A2	19920924	JP19910037995	19910207
JP4338250 A2	19921125	JP19910137270	19910513
JP5031410 A2	19930209	JP19910214501	19910731
KR19920016337 A	19920924	KR19920001477	19920131

Priority:

JP19910037995 19910207 JP19910137270 19910513 JP19910214501 19910731

Probable Assignee: TADA TETSUYA

Assignee(s): (std): TADA TETSUYA

Assignee(s): TETSUYA TADA

Inventor(s): (std): TADA TETSUYA

Inventor(s): TETSUYA TADA

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

Designated states: DE ES FR GB IT

7) Family number: 24051518 (US3822702A)

© PatBase

Title: DISPENSING METHOD AND APPARATUS

Abstract: A fluid dispensing instrument and method for introducing a fluid, as drug materials, into the canals of the Fallopian tubes of a primate female. The dispensing instrument has a tubular probe carrying an expandable balloon assembly. A stop collar on the probe positions the balloon assembly in the uterine cavity. The balloon assembly has a sleeve member which is initially expanded to close the lower portion of the uterine cavity. The drug material is introduced through the probe into the upper portion of the uterine cavity above the expanded balloon assembly. The balloon assembly is then further expanded to force the drug material from the upper portion of the uterine cavity into the canals of the Fallopian tubes. The expanding balloon assembly divides the material and forces the drug material into both of the canals.

Classifications:

International (IPC 8-9): A61B17/42 A61F2/958 A61F6/22 A61K9/00

A61M1/00 A61M31/00 B67B7/48 (Advanced/Invention);

A61F6/00 A61K9/00 A61M1/00 A61M25/10 A61M31/00

B67B7/00 (Core/Invention)

International (IPC 1-7): A61B17/42 A61D7/00 A61F5/00 A61F5/46

A61K37/38 A61M1/00 A61M25/00 A61M29/00 A61M3/00 A61M31/00

A61M37/00 A61M37/02 B67B7/26

CPC: A61B17/42 A61K9/0039 A61M2210/1425 A61F6/146 A61F6/16

A61F6/22 A61F6/225 A61M25/1018 A61M25/10183 A61M31/00

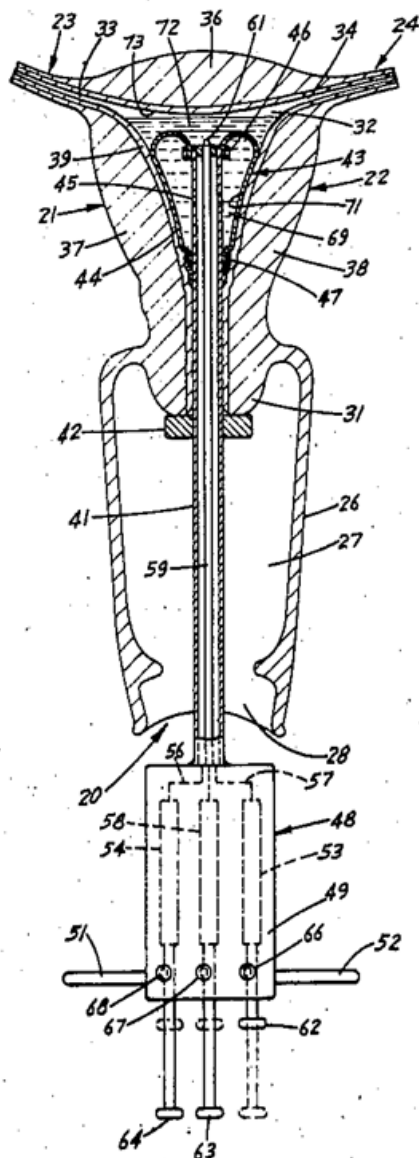
A61M25/10181

European: A61B17/42 A61F6/22 A61F6/22B A61K9/00M8D

A61M25/10E A61M31/00 K61M210/14C

US: 128/232 128/235 128/831 222/103 222/82 222/83 222/85
604/103.03 604/121 604/135 604/191 604/196 604/201 604/515
604/82 604/920 604/96.01 604/97.02

PatBase - US3822702_A



Family:

Publication number	Publication date	Application number	Application date
AR203193 A1	19750822	AR19740252714	19740308
AT191374 A	19820515	AT19740001913	19740307
AT369269 B	19821227	AT19740001913	19740307
AU197466439 A1	19750911	AU19740066439	19740308
AU489524 A1	19750911	AU19740066439D	19740308
BE812112 A	19740911	BE19740141849	19740311
BG23206 A3	19770712	BG19740026001	19740309
BR7401797 A0	19741231	BR19740001797	19740308
CA1069791 A1	19800115	CA19740194519	19740308
CH569488 A	19751128	CH19740003004	19740304
CS191226 B2	19790629	CS19740001707	19740308
DD117181 C	19760105	DD19740177074	19740308
DE2411242 A1	19741017	DE19742411242	19740308
DE2411242 B2	19790607	DE19742411242	19740308
DE2411242 C3	19800131	DE19742411242	19740308
DK142043 B	19800818	DK19740001246	19740307
DK142043 C	19810309	DK19740001246	19740307
EG11393 A	19771231	EG19740000176	19740518
ES424097 A1	19770516	ES19740424097	19740308
FI62768 B	19821130	FI19740000715	19740308
FI62768 C	19830310	FI19740000715	19740308
FR2220286 A1	19741004	FR19740008791	19740308
FR2220286 B1	19821015	FR19740008791	19740308
GB1470571 A	19770414	GB19740010593	19740308
GB1470572 A	19770414	GB19760049022	19740308
GB1470573 A	19770414	GB19760049023	19740308
HK3280 A	19800201	HK19800000032	19800124
HK3380 A	19800201	HK19800000033	19800124
HK3480 A	19800201	HK19800000034	19800124
HU180047 B	19830128	HU1974PO00559	19740308

IE41522 B	19800130	IE19740000504	19740308
IE41522 L	19740909	IE19740000504	19740308
IE41523 B	19800130	IE19790000916	19740308
IE41523 L	19740909	IE19790000916	19740308
IL44358 A0	19740630	IL19740044358	19740305
IL44358 A1	19771031	IL19740044358	19740305
IT1017543 A	19770810	IT19740020880	19740408
JP1093610 C3	19820427	JP19740027630	19740309
JP50026394 A2	19750319	JP19740027630	19740309
JP54000494 A2	19790105	JP19770155071	19771222
JP56034305 B4	19810810	JP19740027630	19740309
JP59046550 U1	19840328	JP19830123728U	19830809
KE3015 A	19800215	KE19800003015	19800125
KE3016 A	19800215	KE19800003016	19800125
KE3017 A	19800215	KE19800003017	19800125
LU69614 A	19740710	LU19740069614	19740311
MY8100011 A	19811231	MY19810000011	19811230
MY8100012 A	19811231	MY19810000012	19811230
MY8100013 A	19811231	MY19810000013	19811230
NL159588 B	19790315	NL19740003145	19740308
NL170701 B	19820716	NL19790002411	19790328
NL170701 C	19821216	NL19790002411	19790328
NL7403145 A	19740911	NL19740003145	19740308
NL7902411 A	19790731	NL19790002411	19790328
OA4650 A	19800731	OA19740055205	19740518
PH12244 A	19781212	PH19740015600	19740308
PL100247 B1	19780930	PL19740169399	19740309
SE408854 B	19790716	SE19740002898	19740305
SE408854 C	19791025	SE19740002898	19740305
US3822702 A	19740709	US19730372971	19730625
US3871374 A	19750318	US19730394727	19730906
US3875939 A	19750408	US19740438202	19740131
US3887112 A	19750603	US19730361418	19730518
US3948259 A	19760406	US19740451530	19740315
US3972331 A	19760803	US19750543877	19750124
US4126134 A	19781121	US19750543876	19750124
USRE29207 E	19770510	US19750543875	19750124
YU54174 A	19820228	YU19740000541	19740304
ZA7401350 A	19750430	ZA19740001350	19740301
ZM4974 A	19741121	ZM19740000049	19740308

Priority:

US19730339911 19730309	US19730361418 19730518	US19730369710 19730613
US19730372971 19730625	US19730394727 19730906	US19740438202 19740131
AU19740066439 19740308	IE19740000504 19740308	NL19740003145 19740308
US19740451530 19740315	US19750543877 19750124	US19750543875 19750124
JP19770155071 19771222		

Probable Assignee: PDEW INC A CORP OF NORTH CAROLINA

Assignee(s): (std): MEDTRONIC INC ; POPULATION RES INC ; POPULATION RESEARCH INC TE MINNEAPOLIS MI ; POPULATION RESEARCH INC US ; POPULATION RESEARCH INC ; POPIYUREESHIYON RISAACHI INC ; POPULATION RESEARCH INC MINNEAPOLIS MINNE

Assignee(s): POPULATION RESEARCH INCORP ; PIROTTE JOHN K 14240 WYNDFIELD CIRCLE RALEIGH NC 2 ; WOODY W RUFFIN JR PO BOX 381 ROXBORO NC 27573 ; POPULATION RESEARCH INC MINNEAPOLIS MINNESOTA VER ST V AM ; POPULATION RESEARCH INC TE MINNEAPOLIS MINNESOTA VER ST V AM ; PIROTTE JOHN K 14240 WYNDFIELD CIRCLE RALEIGH NC 27609 ; PIROTTE JOHN K ; WOODY W RUFFIN JR ; POPULATION RESEARCH INC MINNEAPOLIS MINN V ST A ; POPULATION RES INC US ; DUNCAN CLAYTON I 616 MILOWE ROAD RALEIGH NC 27609 ; EDWARDS LUCILLE L ROUTE 10 BOX 245 CHAPEL HILL NC ; PDEW INC A CORP OF NORTH CAROLINA ; EDWARDS LUCILLE L ROUTE 10 BOX 245 CHAPEL HILL NC 27514 ; BIONEUS INC ; BOLDUC LEE R ; CRX MEDICAL INC ; DUNCAN CLAYTON I ; CRX MEDICAL INC NORTH A CORP OF NC ; DICKHUDT EUGENE A ; PDEW INC ; EDWARDS LUCILLE L ; FAMILY HEALTH INT

Inventor(s): (std): L R BOLDUC ; RII ROBIN BORUDATSUKU ; EUGENE AD ; DECKHUDT E ; DICJHUDT E ; DICKRUDT EUGENE A ; YUUJIEEN AASAA DEITSUKUHATSUTO ; E A DICKHUDT ; LEE RB ; DICKHUDT E A ; EUGENE ARTHUR DICKHUDT ; BOLDUC L R ; LEE ROBIN BOLDUC ; BOLDUC LEE ROBIN ; DICKHUDT EUGENE ARTHUR ; LEE R B ; EUGENE A D ; DICKHUDT EUGENE A ; BOLDUC LEE R ; DICKHUDT E ; BOLDUC L

Inventor(s): BOLDUC LEE R US ; DICKHUDT EUGENE A US ; BOLDUC L US ; BOLDUC LEE ROBIN MINNEAPOLIS ; DICKHUDT EUGENE ARTHUR ST PAUL ; DICKHUDT E US ; EA DICKHUDT ; LR BOLDUC ; LEE ROBIN BOLDUC AND EUGENE ARTHUR DICKHUDT ; DICKRUDT EUGENE A US

Agent(s): EITAN PEARL LATZER AND COHEN ZEDEK

8) Family number: 11168570 (US5294025A)

© PatBase

Title: PUMP TRIGGER ASSEMBLY FOR A TRIGGER SPRAY

Abstract: An improved trigger sprayer apparatus is comprised of a venting system that allows air to enter a liquid container connected to the apparatus as the apparatus dispenses liquid from the container, a trigger member of the apparatus that provides reliable operation and prevents the inadvertent disconnection of the trigger member from the apparatus, a gasket connected to the apparatus between the liquid container and the apparatus, and a fluid conduit communicating with a nozzle orifice of the apparatus that centers a fluid spinner of the apparatus relative to the orifice.

Classifications:

International (IPC 8-9): B05B B05B11/00 B05B11/02 B05B9/03

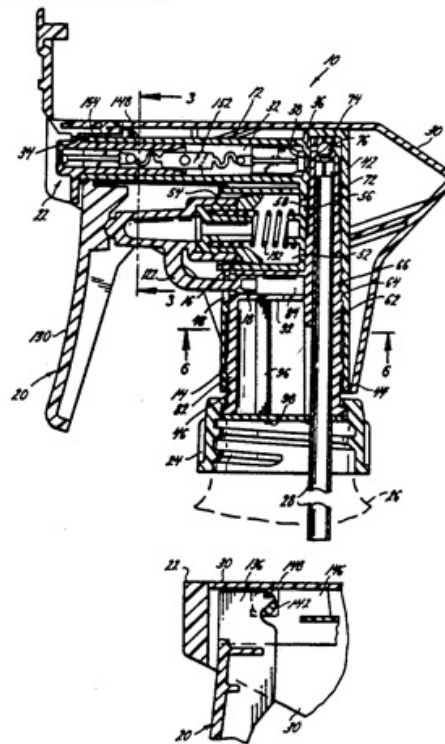
B65D53/04 B67D7/58 (Advanced/Invention);

B05B11/02 B05B9/03 B65D53/00 B67D7/58 (Core/Invention)

International (IPC 1-7): B05B11/00 B05B11/02 B05B9/03

B65D53/04 B67D5/40 B67D5/42 B67D5/46
CPC: B05B11/0008 B05B11/0044 B05B11/0062 B05B11/3011
B05B11/3045
European: B05B11/00B1 B05B11/00B2 B05B11/00R5
B05B11/00R6A B05B11/30C5B B05B11/30H1B L05B11/00B9
US: 222/383 222/383.1 222/542

PatBase - US5294025_R



Family:

Publication number	Publication date	Application number	Application date
AU199334256 A1	19931005	AU19930034256	19921230
AU199665787 A1	19961121	AU19960065787	19960923
AU199665788 A1	19961121	AU19960065788	19960923
AU669875 B2	19960627	AU19930034256	19921230
AU677938 B2	19970508	AU19960065788	19960923
AU679147 B2	19970619	AU19960065787	19960923
CA2129677 AA	19940831	CA19922129677	19921230
CA2129677 C	20000208	CA19922129677	19921230
CA2214595 AA	19930916	CA19922214595	19921230
CA2214595 C	20010807	CA19922214595	19921230
CA2214600 AA	19930916	CA19922214600	19921230
CA2214600 C	20000418	CA19922214600	19921230
CA2286491 AA	19930916	CA19922286491	19921230
CA2286491 C	20030325	CA19922286491	19921230
DE69233555 D1	20051110	DE19926033555	19921230
DE69233555 T2	20060706	DE19926033555T	19921230
DE69233733 D1	20080529	DE19926033733	19921230
DE69233733 T2	20090507	DE19926033733T	19921230
EP0634989 A1	19950125	EP19930902815	19921230
EP0634989 A4	19961120	EP19930902815	19921230
EP0634989 B1	20051005	EP19930902815	19921230
EP0819475 A2	19980121	EP19970117359	19921230
EP0819475 A3	19980325	EP19970117359	19921230
EP0819476 A2	19980121	EP19970117360	19921230
EP0819476 A3	19980325	EP19970117360	19921230
EP1609530 A2	20051228	EP20050021519	19921230
EP1609530 A3	20060104	EP20050021519	19921230
EP1609531 A2	20051228	EP20050021520	19921230
EP1609531 A3	20060201	EP20050021520	19921230
EP1609531 B1	20080416	EP20050021520	19921230
HK1087055 A1	20061006	HK20060107292	20060628
HK1087055 A3	20061006	HK20060107292	20060628
HK1087055 B	20080613	HK20060107292	20060628
HK1087056 A1	20061006	HK20060107293	20060628
HK1087056 A3	20061006	HK20060107293	20060628
US5294025 A	19940315	US19930077025	19930615
US5337928 A	19940816	US19930078138	19930615
US5344053 A	19940906	US19920848706	19920309
WO9317956 A1	19930916	WO1992US11296	19921230

Priority:

US19920848706 19920309	AU19930034256 19921230	CA19922129677 19921230
CA19922214600 19921230	CA19922214600 19921230	CA19922286491 19921230
CA19922214595 19921230	WO1992US11296 19921230	WO1992US11296 19921230
EP19930902815 19921230	US19930077025 19930615	US19930078138 19930615

Probable Assignee: CONTINENTALAFA DISPENSING CO

Assignee(s): (std): CONTICO INT INC ; CONTINENTAL SPRAYERS INT INC ; CONTICO ; CONTINENTALAFA DISPENSING CO ; CONTINENTAL AFA DISPENSING CO ; CONTINENTALAFA DISPENSING COMP

Assignee(s): WACHOVIA CAPITAL FINANCE CORP ; WACHOVIA CAPITAL FINANCE CENTRAL CORP ; NELSON PHILIP L ; LAFFEY MARTIN S ; FOSTER DONALD D ; WACHOVIA CAPITAL FINANCE (CENTRAL) CORP ; NATIONSCREDIT COMMERCIAL CORP ; OAK HILL SECURITIES FUND LP ; FIRST UNION NATIONAL BANK ; HARBINGER CAPITAL PARTNERS MASTER FUND I LTD ; CONTINENTAL SPRAYERS INT INC A DELAWARE CORP ; CIT GROUP BUSINESS CREDIT INC COLLATERAL AGENT AS ; CONTINENTAL SPRAYERS INT ; CONTINENTAL ACQUISITION CORP ; AFA PRODUCTS INC ; AFA PRODUCTS INC DELAWARE CORP ; CONTICO INT ; CIT GROUP BUSINESS CREDIT INC

Inventor(s): (std): LAFFEY MARTIN S ; NELSON PHILIP L ; FOSTER D ; FOSTER DONALD D

Inventor(s): DONALD D FOSTER ; MARTIN S LAFFEY ; PHILIP L NELSON

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OSLER HOSKIN AND HARCOURT LLP; GEMMELL PETER ALAN ET AL; CLT PATENT AND TRADEMARK HK LTD

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE

9) Family number: 14983603 (US5102018A)

© PatBase

Title: MINIATURE DISPENSER HAVING A VENTING GROOVE IN THE PUMP HOUSING

Abstract: A liquid dispensing device having a pump carrying the internal mechanism disposed in a container part of the device. The pump has a flange which rests on the upper edge of the container and which is connected to an outer bush member. The bush member is fitted on an outer bearing surface of the wall of the container in radial sealing engagement therewith. The pump includes a venting passageway for connecting the interior of the container to the atmosphere during dispensing of the liquid. In assembling the device, the pump and bush member are first connected together and then connected to the container with the pump in a position to maintain the passageway open to the interior of the container.

Classifications:

International (IPC 8-9): B05B11/00 (Advanced/Invention);

B05B11/00 (Core/Invention)

International (IPC 1-7): B05B11/00 B05B9/04 B21D53/00

B65D83/14

CPC: B05B11/3047 B05B11/0097 B05B11/3001 Y10T29/49236

Y10T29/49904 Y10T29/49945

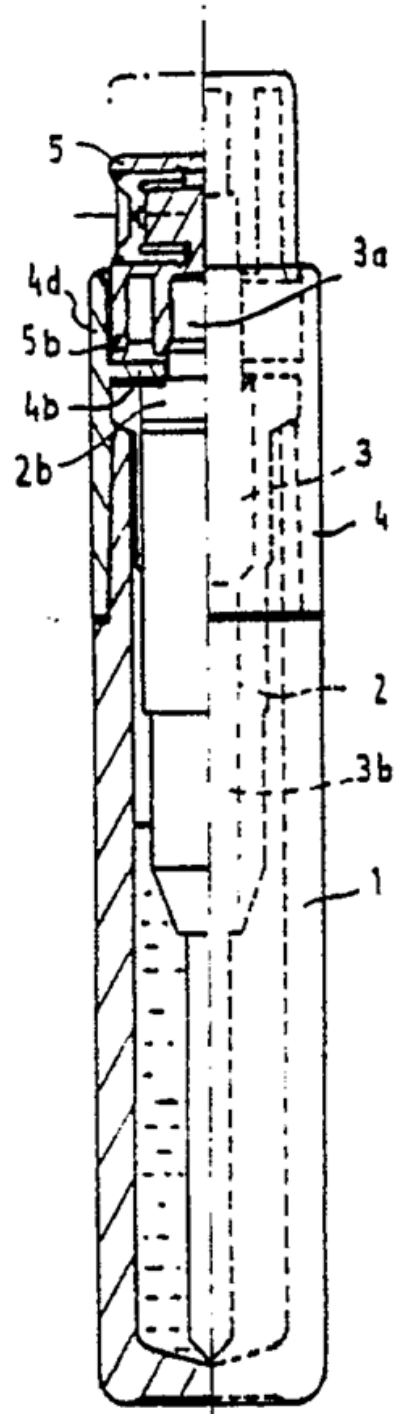
European: B05B11/00B17 B05B11/00P9B4B B05B11/30H1D2

L05B11/30C

US: 222/321 222/321.9 222/378 222/387 29/469 29/525 29/888.02

298/880.2

Fig. 2

**Family:**

Publication number	Publication date	Application number	Application date
AT112510 E	19941015	AT19900401921T	19900703
DE69013085 D1	19941110	DE19906013085	19900703
DE69013085 T2	19950413	DE19906013085T	19900703
DK0408421 T3	19950320	DK19900401921T	19900703
EP0408421 A1	19910116	EP19900401921	19900703
EP0408421 B1	19941005	EP19900401921	19900703
ES2064685 T3	19950201	ES19900401921T	19900703
FR2649382 A1	19910111	FR19890008941	19890704
FR2649382 B1	19911031	FR19890008941	19890704
US5102018 A	19920407	US19900547724	19900702
US5199167 A	19930406	US19910809634	19911217

Priority:

Probable Assignee: SOFAB**Assignee(s):** (std): AEROSOLS AND BOUCHAGE ; AEROSOLS ET DE BOUCHAGE SOC FR ; SOFAB**Assignee(s):** SOFAB LE TREPORT FR ; S O F A B ; SOCIETE FRANCAISE D AEROSOLS ET DE BOUCHAGE ; FRANCAISE D AEROSOLS ET DE BOUCHAGE SOC ; FRANCAISE D'AEROSOLS ET DE BOUCHAGE SOC ; AEROSOLS BOUCHAGE STE FSE**Inventor(s):** (std): DESAZARS DE MONTGAILHARO WILLI ; DESAZARS DE MONTGAILHARD WILLI ; BOUGAMONT JEAN LOUIS ; MONTGAILHARD WILLIAM DESAZARS**Inventor(s):** BOUGAMONT JEAN LOUIS F 76260 EU FR ; DESAZARS DE MONTGAILHARD WILLIAM F 75008 PARIS FR ; DESAZARS DE MONTGAILHARD WILLIAM ; DESAZARS DE MONTGAILHARO WILLIAM ; WILLIAM DESAZARS DE MONTGAILHARD ; JEAN LOUIS BOUGAMONT**Designated states:** AT BE CH DE DK ES FR GB GR IT LI LU NL SE**10) Family number: 21614725 (US2505369A)**

© PatBase

Title: BEVERAGE DISPENSER

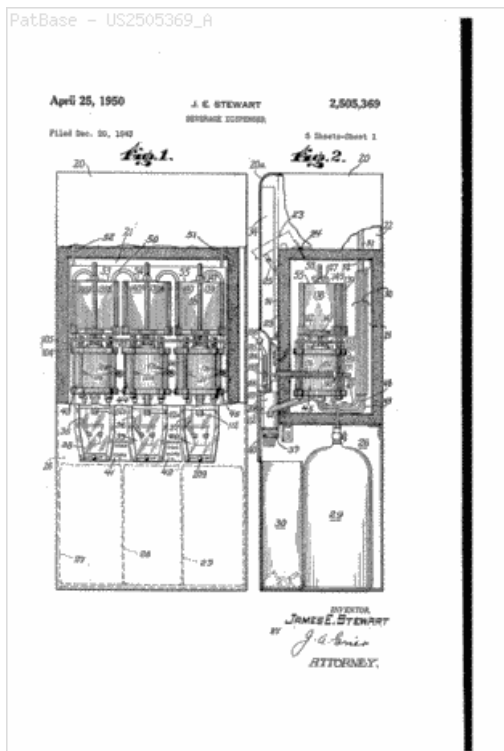
Abstract: (Claim 1) 1. In a beverage dispenser, a measuring cylinder ..., piston reciprocally mounted in said cylinder: stop means adapted to be engaged by said piston, said cylinder being adapted to be subjected to a source of liquid under pressure, thereby enabling said piston to be displaced by said liquid until it comes to rest against said stop, a second auxiliary cylinder communicating with a source of syrup adapted to be filled therefrom by gravity, a discharge nozzle, and means for moving said cylinder from the influence of said source and said auxiliary cylinder, from communication with said source of syrup and into communication with said discharge nozzle to deliver the measured quantities in a mixed state therefrom.

Classifications:**International (IPC 8-9):** B67D1/10 (Advanced/Invention);

B67D1/00 (Core/Invention)

International (IPC 1-7): B67D5/16**CPC:** B67D1/105 Y10T137/0385 Y10T137/2569 Y10T137/2984 Y10T137/4707 Y10T137/6123**European:** B67D1/10B4**US:** 137/113 137/12.5 137/170.1 137/257 137/318 222/129.1 222/141 222/217 222/83.5

PatBase - US2505369_A

**Family:**

Publication number	Publication date	Application number	Application date
US2505369 A	19500425	US19430514889	19431220

Priority:

US19430514889 19431220

Probable Assignee: STEWART PRODUCTS CORP**Assignee(s):** (std): STEWART PRODUCTS CORP**Inventor(s):** (std): STEWART JAMES E**11) Family number: 31447838 (US4251032A)**

© PatBase

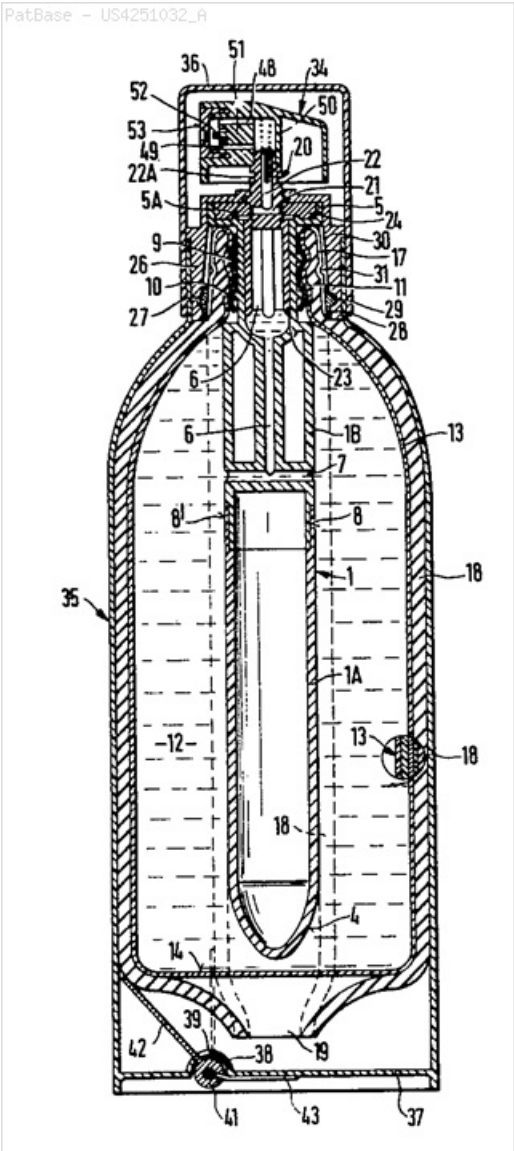
Title: APPLIANCE FOR DISCHARGING GASEOUS, LIQUID OR PASTY PRODUCT, AND PROCESS OF ITS MANUFACTURE

Abstract: An appliance for discharging gaseous, liquid or pasty product is described which comprises an inner pouch of deformable non-extensible material for holding the product, an outer enveloping element of caoutchouc-type macromolecular material about the inner pouch, a product outlet associated with the pouch, a valve device for controlling the discharge of product from the pouch through the outlet and being located intermediate the latter and the pouch, and a rigid core associated with the pouch; the cross-sectional area of said core is at least 40 percent larger than the cross-sectional area, taken in the same plane, of the interior of the outer enveloping element in unexpanded condition, and the maximum fillable volume available in the pouch when the latter is completely unfolded without expansion of its walls constitutes the maximum limit of expansion of the outer enveloping element, the said maximum limit being within the range of linear stretching of the caoutchouc-type macromolecular material. A process for manufacturing such appliances is also described.

Classifications:**International (IPC 8-9):** B05B1/34 B05B7/04 B05B7/24 B05B9/04

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

B05B1/34 B05B7/04 B05B7/24 B05B9/04 B65D83/00 B65D83/14 B65D83/16 (Core/Invention)
International (IPC 1-7): A45D B05B1/00 B05B1/02 B05B1/22 B05B1/34 B05B11/00 B05B11/02 B05B11/04 B05B11/06 B05B7/10 B05B9/00 B05B9/04 B65D47/20 B65D83/00 B65D83/14 F02M61/00 F16K7/02
CPC: B05B1/34 B65D83/0061 B65D83/14 B65D83/38 B05B1/3421 B05B1/3436 B05B1/3442 B05B7/0425 B65D83/0055 B65D83/20
European: B05B1/34 B05B1/34A3B4B B05B1/34A3B4D B05B7/04C1 B65D83/00B B65D83/00B1 B65D83/14 B65D83/20 B65D83/38 L05B1/34A3B
US: 222/386.5 239/323 239/404 239/466 239/491 239/492



Family:

Publication number	Publication date	Application number	Application date
AR216108 A1	19791130	AR19770269681	19771021
AR219333 A1	19800815	AR19780273183	19780802
AT392044 B	19910110	AT19780005194	19780718
AT519478 A	19900715	AT19780005194	19780718
AU197729813 A1	19790426	AU19770029813	19771018
AU197838103 A1	19800124	AU19780038103	19780718
AU515762 B2	19810430	AU19770029813	19771018
AU521493 B2	19820408	AU19780038103	19780718
BE860002 A	19780421	BE19770181972	19771021
BR7707026 A	19780718	BR19770007026	19771020
BR7804953 A	19790306	BR19780004953	19780802
CA1077001 A1	19800506	CA19770288724	19771014
CH612101 A	19790713	CH19770001519	19770203
CH614867 A	19791228	CH19770004541	19770412
CH616350 A	19800331	CH19760013337	19761021
CH618355 A	19800731	CH19770009607	19770802
CH646619 A	19841214	CH19780002024	19780224
DD132184 C	19780906	DD19770201710	19771026
DD140713 A5	19800326	DD19780207067	19780801
DE2747045 A1	19780427	DE19772747045	19771020
DE2826784 A1	19790215	DE19782826784	19780619
DE2826784 C2	19881013	DE19782826784	19780619
DK151045 B	19871019	DK19780003403	19780801
DK151045 C	19880314	DK19780003403	19780801
DK340378 A	19790203	DK19780003403	19780801
DK467677 A	19780422	DK19770004676	19771020
EP0000688 A2	19790207	EP19780810011	19780801
EP0000688 A3	19790221	EP19780810011	19780801
EP0000688 B1	19840111	EP19780810011	19780801
ES463402 A1	19781216	ES19770463402	19771020
ES470662 A1	19790216	ES19780470662	19780609
FI64060 B	19830630	FI19770003112	19771020
FI64060 C	19831010	FI19770003112	19771020

FI64331 B	19830729	FI19780002247	19780714
FI64331 C	19831110	FI19780002247	19780714
FI773112 A	19780422	FI19770003112	19771020
FI782247 A	19790203	FI19780002247	19780714
FR2371238 A1	19780616	FR19770031779	19771021
FR2371238 B1	19841005	FR19770031779	19771021
FR2399282 A1	19790302	FR19780019494	19780629
FR2399282 B1	19880610	FR19780019494	19780629
GB1593878 A	19810722	GB19770043927	19771021
IE45893 B	19821229	IE19770002148	19771021
IE45893 L	19780421	IE19770002148	19771021
IE48169 B	19841017	IE19780001548	19780731
IE781548 L	19790414	IE19780001548	19780731
IL53858 A0	19780430	IL19780053858	19780120
IL53858 A1	19800916	IL19780053858	19780120
IL55155 A0	19780929	IL19780055155	19780717
IL55155 A1	19820730	IL19780055155	19780717
IN149201 A	19811003	IN1977CA01593	19771108
IN150150 A	19820731	IN1978CA00870	19780809
IT1086918 A	19850531	IT19770028858	19771021
IT1094411 A	19850802	IT19780022318	19780414
IT7822318 A0	19780414	IT19780022318	19780414
JP1464259 C3	19881028	JP19780093718	19780802
JP53089011 A2	19780805	JP19770126694	19771021
JP54059613 A2	19790514	JP19780093718	19780802
JP63012664 B4	19880322	JP19780093718	19780802
NL7711580 A	19780425	NL19770011580	19771021
NO151649 B	19850204	NO19780002630	19780801
NO151649 C	19850515	NO19780002630	19780801
NO773554 A	19780424	NO19770003554	19771017
NO773554 L	19780424	NO19770003554	19771017
NO782630 A	19790205	NO19780002630	19780801
NO782630 L	19790205	NO19780002630	19780801
PT67172 A	19771101	PT19770067172	19771018
PT67172 B	19790321	PT19770067172	19771018
PT68370 A	19780901	PT19780068370	19780801
SE7711838 A	19780422	SE19770011838D	19771020
SE7711838 L	19780422	SE19770011838	19771020
SU776544 D	19801030	SU19772531949	19771021
SU776544 T	19801030	SU19772531949	19771021
SU959614 D	19820915	SU19782645751	19780802
US4251032 A	19810217	US19790084506	19791012
US4260110 A	19810407	US19780909995	19780526
ZA7706261 A	19790725	ZA19770006261	19771020
ZA7804354 A	19800326	ZA19780004354	19780801

Priority:

CH19760013337 19761021 CH19770001519 19770203 CH19770002024 19770218
CH19770004541 19770412 CH19770009607 19770802 CA19770288724 19771014
CH19780002024 19780224

Probable Assignee: WERDING WJ

Assignee(s): (std): VINFRID ZHAN VERDING ; WERDING WINFRIED ; WERDING WINFRIED J ; VINFRID VERDING DT ; WERDING WINFRID JEAN ; WERDING WINFRIED J CH ; WERDING W ; VINFRID ZHAN VERDING DE ; WERDING WILFRIED J ; WERDING ; WERDING WINFRIED JEAN ; WERDING W J ; UINFURIIDO YOTSUTO BUERUDEINGU ; WINFRIED JEAN WERDING ; WINFRIED JEAN WERDING TE PULLY ZWITSERLAND ; WINFRIED J WERDING ; WINFRED J WERDING ; WINFRIED J WERDING

Assignee(s): WERDING WJ ; TISSOT SYNTHETIC ; TISSOT SYNTHETIC SA ; WINFRIED WERDING ; UINFURIIDO YOTSUTO UERUDEINGU ; VERDING WINFRIED JEAN ; WERDING WINFRIED JEAN PULLY CH

Inventor(s): (std): VERDING VINFRID ; WERDING ; WERDING W J ; WERDING W ; WERDING WINFRIED JEAN ; VERDING WINFRIED JEAN ; WERDING WINFRIED ; WINFRIED WERDING ; WERDING WIENFRIED J ; VINFRID ZHAN VERDING DE ; UINFURIIDO YOTSUTO BUERUDEINGU ; WINFRIED JEAN WERDING ; WERDING WINFRID JEAN ; WINFRIED J WERDING ; VINFRID VERDING DT ; W J WERDING ; UINFURIIDO YOTSUTO UERUDEINGU ; SOK ; WERDING WINFRIED J ; VERDING VINFRID ZHAN

Inventor(s): WERDING WINFRIED J CH ; J WERDING WINFRIED ; WERDING WINFRIED JEAN PULLY CH ; JEAN WERDING WINFRIED

Agent(s): REINHOLD COHN AND PARTNERS

Designated states: BE GB LU NL SE

12) Family number: 18017863 (US4469249A)

© PatBase

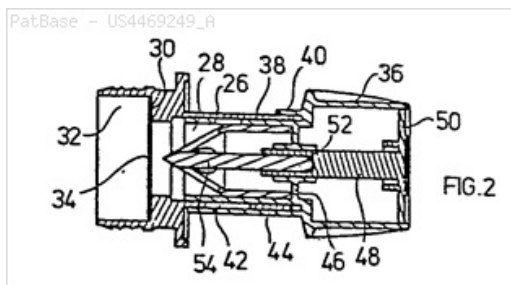
Title: APPARATUS FOR DISPENSING LIQUIDS

Abstract: A dispenser tap has a body, a handle, and a probe mounted within the body. The probe is hollow and has a pointed inner end with openings allowing liquid to be dispensed. The body has a spigot-receiving part which has a bore passing through it and a seal at one end thereof. The probe has radially outwardly extending pins that fit into corresponding slots in the body. In use, turning the handle cammingly moves the probe to an extended non-return position such that the seal is pierced and ruptured. The pins within the slots prevent the probe from rotating during this operation.

Classifications:

International (IPC 8-9): B65D17/42 B65D25/40 B65D25/42
B65D47/00 B65D47/36 B65D77/06 B65D77/40 B67B7/48 B67B7/80
B67B7/86 B67D3/00 B67D3/04 (Advanced/Invention);
B65D17/00 B65D25/38 B65D47/00 B65D77/06 B65D77/22 B67B7/00

B67D3/00 (Core/Invention);
B65D B67B B67D (Subclass/Invention)
International (IPC 1-7): B65D17/42 B65D25/40 B65D3/16
B65D30/24 B65D47/00 B65D47/06 B65D47/36 B65D51/20
B65D77/06 B65D77/40 B65D8/02 B67B7/24 B67B7/26 B67B7/28
B67B7/48 B67B7/80 B67B7/86 B67D1/14 B67D3/00 B67D3/04
F16K3/26 F16K5/00 F16K5/00
CPC: B67B7/26 B67D3/04F
European: B67B7/26 B67D3/04F
US: 220/277 220/278 222/553 222/83 222/89



Family:

Publication number	Publication date	Application number	Application date
AR227075 A1	19820915	AR19810287691	19811203
BR8107952 A	19820622	BR19810007952	19811204
CA1158615 A1	19831213	CA19810390747	19811124
DE3173915 D1	19860403	DE19813173915	19811124
DE3176983 D1	19890309	DE19813176983	19811124
DK150572 B	19870330	DK19810005333	19811201
DK150572 C	19871026	DK19810005333	19811201
DK154413 B	19881114	DK19840000845	19840221
DK154413 C	19890605	DK19840000845	19840221
DK533381 A	19820605	DK19810005333	19811201
DK84584 A	19840221	DK19840000845	19840221
DK84584 A0	19840221	DK19840000845	19840221
EP0053891 A1	19820616	EP19810305554	19811124
EP0053891 B1	19860226	EP19810305554	19811124
EP0148971 A2	19850724	EP19840102650	19811124
EP0148971 A3	19860430	EP19840102650	19811124
EP0148971 B1	19890201	EP19840102650	19811124
ES270895 U	19831216	ES19810270895U	19811203
ES270895 Y	19840701	ES19810270895U	19811203
FI813848 A	19820605	FI19810003848	19811201
FI813848 L	19820605	FI19810003848	19811201
FI863033 A	19860724	FI19860003033	19860724
FI863033 A0	19860724	FI19860003033	19860724
JP1410871 C3	19871124	JP19810195109	19811203
JP57125152 A2	19820804	JP19810195109	19811203
JP62012098 B4	19870317	JP19810195109	19811203
NO153332 B	19851118	NO19810004133	19811203
NO153332 C	19860226	NO19810004133	19811203
NO155050 B	19861027	NO19830004538	19831209
NO155050 C	19870204	NO19830004538	19831209
NO155615 B	19870119	NO19850000356	19850129
NO155615 C	19870429	NO19850000356	19850129
NO814133 A	19820607	NO19810004133	19811203
NO814133 L	19820607	NO19810004133	19811203
NO834538 A	19820607	NO19830004538	19831209
NO834538 L	19820607	NO19830004538	19831209
NO850356 A	19820607	NO19850000356	19850129
NO850356 L	19820607	NO19850000356	19850129
NZ199161 A	19850830	NZ19810199161	19811203
NZ212004 A	19860910	NZ19810212004	19811203
PT74084 A	19820101	PT19810074084	19811204
PT74084 B	19830701	PT19810074084	19811204
SE8107222 A	19820605	SE19810007222D	19811203
SE8107222 L	19820605	SE19810007222	19811203
SE8604729 A	19861105	SE19860004729D	19861105
SE8604729 A0	19861105	SE19860004729	19861105
SE8604729 L	19861105	SE19860004729	19861105
US4469249 A	19840904	US19810323665	19811120
US4624392 A	19861125	US19840639794	19840813
ZA8108179 A	19820630	ZA19810008179	19811125

Priority:

AU1980PE06755 19801204	AU1981PE09152 19810603	AU1981PF00260 19810814
US19810323665 19811120	EP19810305554 19811124	DK19810005333 19811201
FI19810003848 19811201	NZ19810199161 19811203	NO19810004133 19811203

Probable Assignee: MARLEY TILE AG

Assignee(s): (std): DEIEMOURUDAAZU PTY LTD ; DIEMOULDERS PTY LTD ; DIEMOULDERS PROPRIETARY LTD ; DIEMOULDERS PROPRIETARY LTD ; DIEMOULDERS PROPRIETARY LIMITED

Assignee(s): DIEMOULDERS PROPRIETARY LIMITED ; DIEMOULDERS PROPRIETARY LTD ; PACIFIC DUNLOP LTD ; ROSEBANK LIQUID PACKAGING PTY LTD ; ROSE LISTINGS PTY LTD ; MARLEY TILE AG ; DIEMOULDERS PROPRIETARY A CORP OF AUSTRALIA LTD ; DEAKIN TOWER PTY LTD ; DEAKIN TOWER PTY LTD 19 23 HALLAM RD SOUTH HALLAM ; DEIEMOURUDAAZU PTY LTD

Inventor(s): (std): MALPAS JON HENRY ; CALDER ALAN REGINALD ; MALPAS J H ; CALDER A R ; JON HENRII MARUPASU ; ARAN REJINARUDO KARUDAA ; HENRY MALPAS JON ; REGINALD CALDER ALAN ; MALPAS JON H ; CALDER ALAN R ; JYON HENRII MARUPASU ; A R CALDER ; MALPAS JH ; J H MALPAS ; CALDER AR ; MALPAS JOHN HENRY

Inventor(s): JON HENRY MALPAS ; ALAN REGINALD CALDER

Designated states: BE DE FR GB IT

