

Search history

Search 1: SFT=((bottle or container) and base and fold*) (Results 156741)
Search 2: 1 and diaphragm (Results 5136)
Search 3: 2 and sidewall* (Results 773)
Search 4: 3 and PD<20140821 (Results 632)
Search 5: 4 and curv* (Results 439)
Search 6: SFT=(5) and IC=(B65D1) (Results 22)

Title: THERMOPLASTIC **BOTTLE** WITH CONTROLLED LATERAL COLLAPSE AND METHOD OF DISPENSING LIQUID THEREFROM

Abstract: A collapsible oval thermoplastic **bottle** that accurately measures the volume of sterile medical liquid dispensed without inletting air into the **bottle**. The **bottle** contains a sterile liquid and a constant mass of sterile gas above the liquid. A rigid oval **base** and a rigid oval shoulder of the **bottle** cooperate with a flexible oval side wall of the **bottle** to "control the lateral collapse" of the **bottle**. This "controlled collapse" redistributes the constant mass of gas within the **bottle** to maintain portions of the side wall at the liquid level in space relationship for accurate volumetric readings against calibrations on the **bottle**. A 1 liter collapsible **bottle** has an accuracy of +/-30 ml., which accuracy is equivalent to that of a rigid glass **bottle** of the same size.

Classifications:

International (IPC 8-9): A61J1/00 A61J1/05 A61M5/14

B65D47/00 (Advanced/Invention);

A61J1/00 A61J1/05 B65D47/00 (Core/Invention)

International (IPC 1-7): A61J1/00 A61M1/02 A61M5/14 B65B31/02

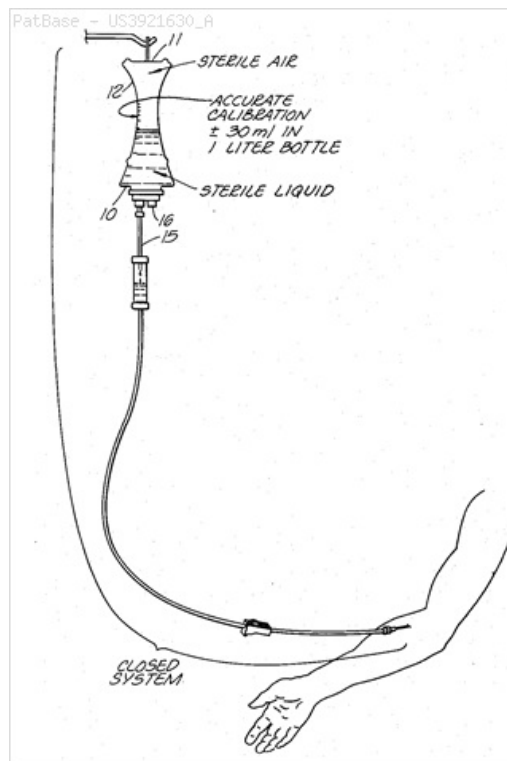
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CPC: Y10S128/24 Y10S215/03 Y10S215/90 A61J1/05 A61J2200/76

European: A61J1/00T A61J1/05 K61J200/76

US: 128/214R 128/DIG.24 215/231 215/373 215/382 215/399

215/900 215/DIG.3 222/107 604/251 604/257 604/530



Family:

Publication number	Publication date	Application number	Application date
AR201642 A1	19750331	AR19750257642	19750214
AU197477060 A1	19760701	AU19740077060	19741231
BE825117 A	19750529	BE19750153000	19750203
BR7500745 A	19751202	BR19750000745	19750205
CA1046013 A1	19790109	CA19740217210	19741231
CH582093 A	19761130	CH19750001819	19750214
DE2502310 A1	19750828	DE19752502310	19750121
EG11580 A	19770815	EG19750000045	19750201
ES433993 A1	19761116	ES19750433993	19750121
FR2261781 A1	19750919	FR19750000005	19750102
FR2261781 B1	19811127	FR19750000005	19750102
GB1483553 A	19770824	GB19750007395	19750221
IN143639 A	19780107	IN1974CA02874	19741228
IT1026409 A	19780920	IT19750047775	19750121
JP50118888 A2	19750917	JP19750021433	19750220
PH11706 A	19780524	PH19750016716	19750116
TR19086 A	19780501	TR19750019086	19750117
US3921630 A	19751125	US19740445836	19740226
ZA7500035 A	19760128	ZA19750000035	19750102

Priority:

US19740445836 19740226

Probable Assignee: MCGAW INC MORaine MONTGOMERY COUNTY A CORP OF OH

Assignee(s): (std): AMERICAN HOSPITAL SUPPLY CORP

Assignee(s): AMERICAN HOSPITAL SUPPLY CORP US ; GENERAL ELECTRIC CAPITAL A NEW YORK CORP CORP ; GENERAL ELECTRIC CAPITAL CORP ; KENDALL MCGAW LABORATORIES INC ; WELLS FARGO BANK NA ; MCGAW INC ; KENDALL MCGAW LABORATORIES INC A CORP OF OH ; KENDALL MCGAW LABORATORIES INC AN OH CORP ; MCGAW INC A CORP OF DELAWARE ; MCGAW INC MORaine MONTGOMERY COUNTY A CORP OF OH ; MCPHEE CHARLES J

Inventor(s): (std): MCPHEE CHARLES J ; MCPHEE CHARLES JOSEPH ; MOPHEE CH J ; PCPHEE C ; MCPHEEL C ; MCPHEE C

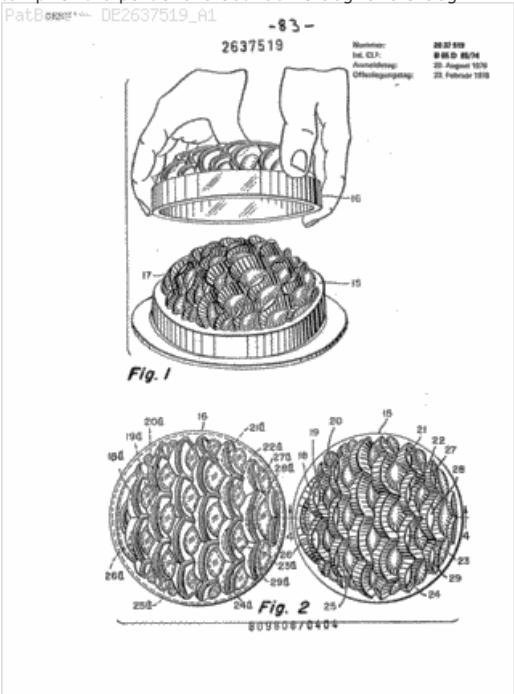
Inventor(s): CHARLES JOSEPH MCPHEE ; JOSEPH MCPHEE CHARLES

Title: DECORATIVE SURFACE SHAPING AND PACKAGING OF BUTTER OR MARGARINE - USES SUITABLY SHAPED STAMPED THIN MOULD SUBSEQUENTLY REMOVED BY FINGER PRESSURE

Abstract: Butter or margarine portions have their surface formed into a decorative shapes using a readily deformable package comprising a thermally deformable plastic sheet 0.12-0.5mm thick into which the butter or margarine is fed in liquid form through an opening in the sheet. The angles on the peaks of the moulded surface of the dairy product must be no less than 20 deg. and the radii of the tops of the pressed surfaces must not be less than 0.8mm so that finger pressure against the outside of the hollow form exerts a collaborative and/or expanding movement on parts of the pressed surfaces thereby causing the portion parts to become separated without damage if the temp. of the portions is between 3 deg. and 9 deg..

Classifications:

International (IPC 8-9): B65D1/26 B65D85/74 (Advanced/Invention);
B65D1/22 B65D85/72 (Core/Invention)
International (IPC 1-7): B65D85/74
CPC: B65D1/26 B65D85/74
European: B65D1/26 B65D85/74



Family:

Publication number	Publication date	Application number	Application date
DE2637519 A1	19780223	DE19762637519	19760820

Priority:

DE19762637519 19760820

Probable Assignee:

PETERS LEO

Assignee(s): (std):

PETERS LEO

Inventor(s): (std):

PETERS LEO

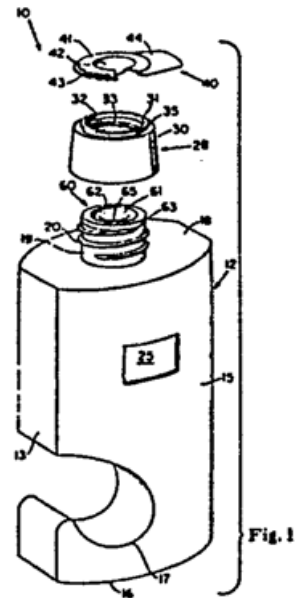
Title: FLEXIBLE **CONTAINER** INCLUDING SELF-SEALING DISPENSING VALVE TO PROVIDE AUTOMATIC SHUT-OFF AND LEAK RESISTANT INVERTED STORAGE

Abstract: A resiliently deformable **container** having at least one discharge orifice equipped with a self-sealing dispensing valve, said valve having a resiliently deformable, concave shaped portion with its perimeter sealingly secured across the **container's** discharge orifice. The self-sealing valve is secured across the orifice so that it is inwardly concave when the **container** is in an undeformed condition. The concave shaped portion of the valve includes at least one substantially linear slit extending through the thickness of the valve. The valve requires the attainment of a threshold opening pressure to effect inversion from a concave at rest position in order to dispense the package contents. By providing a **container** with sufficient flexibility to permit manual deformation and sufficient resilience to return substantially to its undeformed configuration when the externally applied forces are removed, a void volume equivalent to the amount of fluid material discharged from the package is provided inside the **container** after removal of the applied forces. This aids in closing the self-sealing valve which, after venting the **container** to the atmosphere, returns to an inwardly concave, sealed position until sufficiently large external forces are again applied to the **container** to effect inversion of the valve and consequent material discharge.

Classifications:

International (IPC 8-9): B05B11/04 B65D1/32 B65D23/00
B65D35/50 B65D35/52 B65D47/20 (Advanced/Invention);
B65D1/00 B65D23/00 B65D35/00 B65D47/04 (Core/Invention)
International (IPC 1-7): A47K5/122 B05B11/04 B65D1/00 B65D1/32
B65D25/00 B65D35/28 B65D35/44 B65D35/50 B65D47/00
B65D47/06 B65D47/44 B65D85/72 B65DA
CPC: Y10T137/7885 Y10T137/7895 B65D47/2031 B65D1/32
B65D23/003
European: B65D1/32 B65D23/00D B65D47/20E2
US: 137/849 137/859 222/181 222/181.3 222/213 222/490 222/494

PatBase - US4728006_A



Family:

Publication number	Publication date	Application number	Application date
AT73086 E	19920315	AT19850200589T	19850417
AU198541694 A1	19851031	AU19850041694	19850424
AU575155 B2	19880721	AU19850041694	19850424
CA1271458 A1	19900710	CA19850480200	19850426
DE3585455 D1	19920409	DE19853585455	19850417
DK168477 B1	19940405	DK19850001872	19850426
DK187285 A	19851028	DK19850001872	19850426
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EP0160336 A3	19870415	EP19850200589	19850417
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ES286370 U	19851116	ES19850286370U	19850426
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ES286370 Y1	19860625	ES19850286370U	19850426
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GB2158049 A1	19851106	GB19850010233	19850422
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HK57990 A	19900810	HK19900000579	19900802
IE57957 B	19930519	IE19850001074	19851126
IE851074 L	19851027	IE19850001074	19851126
JP61033927 A2	19860218	JP19850090763	19850426
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MA20421 A1	19851231	MA19850020645	19850426
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PH23706 A	19890927	PH19850032191	19850425
SG9090425 A	19900817	SG19900090425	19900620

US4728006 A	19880301	US19840656397	19841001
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Priority:

US19840604782 19840427 US19840656397 19841001 EP19850200589 19850417
CA19850480200 19850426

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): TASKE LEO E ; DROBISH JAMES L ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO AN OH CORP

Inventor(s): (std): DROBISH JAMES L ; DROBISH JAMES LEE ; DROBISH JAMES L ; JAMES LEE DROBISH ; JIEEMUZU RII DOROBISHIYU ; LEO EDWARD TASKE ; REO EDOWAADO TASUKE ; TASKE LEO E ; TASKE LEO EDWARD

Inventor(s): TASKE LEO EDWARD CINCINNATI OHIO 45247 US ; DROBISH JAMES LEE CINCINNATI OHIO 45215 US

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; KIRBY EADES GALE BAKER

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

Title: **CONTAINERS**

Abstract: PCT No. PCT/GB85/00569 Sec. 371 Date Sep. 29, 1986 Sec. 102(e) Date Sep. 29, 1986 PCT Filed Dec. 11, 1985 PCT Pub. No. WO86/03474 PCT Pub. Date Jun. 19, 1986. A method of making a succession of food or beverage containers each comprising a vessel having a mouth surrounded by a rim presenting an upper surface of plastics material. The method comprises filling each vessel in turn and feeding over the vessel a continuous composite web of lidding material produced by forming spaced apart perforations, each comprising at least one through hole, in a continuous first web of diaphragm material having a plastics surface weldable to the vessel rim. The method also comprises forming spaced apart pull tabs in a continuous second web of peel strip material by folding each of a succession of portions of the second web against itself to form each pull tab and subsequently applying and peelably securing the second web which is narrower than the first web to the first web so as to obturate the perforations such that one pull tab is situated adjacent each perforation and remains secured to the second web only at a junction on its one end. Moreover, the method comprises cutting a lid from the web and securing the lid by an endless peripheral weld to the upper surface of the rim thereby closing the vessel.

Classifications:

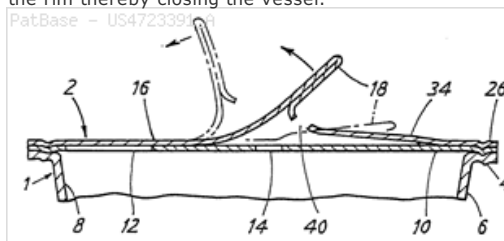
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International (IPC 1-7): B65B31/00 B65B55/02 B65B61/18 B65B7/16 B65B7/28 B65D1/00 B65D17/34 B65D17/50 B65D41/32 B65D47/36 B65D53/08 B65D77/00 B65D77/20 B65D77/30 B65D85/00 B65D85/72 B67B

CPC: B32B1/02 B32B7/00 B32B7/12 B32B15/04 B32B27/06 B32B27/32 B32B2307/412 B32B2311/00 B32B2323/10 B32B2439/40 B65B7/01 B65D77/20

European: B65B7/01 B65D77/20E1B3B2A

US: 220/257 220/270 220/271 53/133 53/133.1 53/412

**Family:**

Publication number	Publication date	Application number	Application date
AT40970 E	19890315	AT19850900193T	19851211
AU198652354 A1	19860701	AU19860052354	19851211
AU589392 B2	19891012	AU19860052354	19851211
BRP18507117 A	19870331	BR1985PI07117	19851211
CA1258644 A1	19890822	CA19850497462	19851212
CA1262101 A1	19891003	CA19850594394	19851212
CA1262101 A2	19891003	CA19890594394	19890321
CA1262101 C	19891003	CA19890594394	19890321
DE3568411 D1	19890406	DE19853568411	19851211
DK155988 B	19890612	DK19860003848	19860812
DK155988 C	19891120	DK19860003848	19860812
DK384886 A	19860812	DK19860003848	19860812
DK384886 A0	19860812	DK19860003848	19860812
EP0204799 A1	19861217	EP19860900193	19851211
EP0204799 B1	19890301	EP19860900193	19851211
ES296108 U	19880201	ES19870296108U	19870115
ES296108 Y	19880916	ES19870296108U	19870115
ES296108 Y1	19881017	ES19870296108U	19870115
ES549928 A0	19870416	ES19850549928	19851213
ES8704831 A1	19870416	ES19850549928	19851213
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FI863220 A	19860806	FI19860003220	19860806
FI863220 A0	19860806	FI19860003220	19860806
GB2168312 A1	19860618	GB19840031447	19841213
GB2168312 B2	19890517	GB19840031447	19841213
GB8431447 A0	19850123	GB19840031447	19841213
GR853005 B	19860415	GR19850103005	19851212
HK7890 A	19900209	HK19900000078	19900201
IE57256 B	19920617	IE19850003141	19851212
IE853141 L	19860613	IE19850003141	19851212
IN166498 A	19900519	IN1985MA00994	19851210
JP62500995 T2	19870423	JP19860500044T	19851211
KR19877000054 A	19870228	KR19867000565	19851211
KR920002809 B1	19920404	KR19860070565	19860813
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NO167081 B	19910624	NO19860003241	19860812
NO167081 C	19911002	NO19860003241	19860812
NO863241 A	19861013	NO19860003241	19860812
NO863241 A0	19860812	NO19860003241	19860812
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PT81663 B	19920731	PT19850081663	19851212
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TR24091 A	19910313	TR19850050028	19851213
US4723391 A	19880209	US19860908708	19860929
US4762246 A	19880809	US19870087676	19870820
WO8603474 A1	19860619	WO1985GB00569	19851211
ZA8509402 A	19861126	ZA19850009402	19851209

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ZW22285 A	19860723	ZW19850000222	19851210	

Priority:

GB19840031447 19841213 EP19860900193 19851211 WO1985GB00569 19851211
WO2055GB00569 19851211 CA19850594394 19851212 US19860908708 19860929

Probable Assignee: METAL BOX PLC

Assignee(s): (std): CMB FOODCAN PLC ; CMB PACKAGING UK LTD ; METAL BOX PUBLIC LMT COM ; METAL BOX PLC

Assignee(s): METAL BOX PUBLIC CO A CORP OF LTD ; ASHLEY ROBERT J ; METAL BOX PUBLIC LIMITED CO ; METAL BOX PUBLIC LIMITED COMPANY ; MILLER JOHN D ; RING MAURICE F ; METAL BOX PUBLIC CO LTD ; METAL BOX PUBLIC LMTCOM ; METAL BOX P L C ; CMB PACKAGING UK LIMITED

Inventor(s): (std): ASHLEY GB ROBERT JON ; ASHLEY ROBERT J ; ASHLEY ROBERT JON ; DEREK MILLER JOHN ; FRANK RING MAURICE ; JOHN DEREK MILLER ; JON ASHLEY ROBERT ; MAURICE FRANK RING ; MILLER GB JOHN DEREK ; MILLER JOHN D ; MILLER JOHN DEREK ; RING GB MAURICE FRANK ; RING MAURICE F ; RING MAURICE FRANK ; ROBERT JOH ASHLEY ; ROBERT JON ASHLEY ; RING MAURICE ; RING M F ; MILLER JOHN ; MILLER J D ; ASHLEY ROBERT JOH ; ASHLEY ROBERT ; ASHLEY R J

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BB BE BR CH DE DK FI FR GB IT JP KR LI LU NL NO SE US

Title: ALKOXYCOUMARINS SUBSTITUTED BY A HETEROCYCLIC RADICAL, THEIR PREPARATION AND THERAPEUTIC AGENTS CONTAINING THESE COMPOUNDS

Abstract: An alkoxy coumarin substituted by a heterocyclic radical, of the formula I Het is one of the following heterocyclic radicals: where X is oxygen or sulfur.

Classifications:

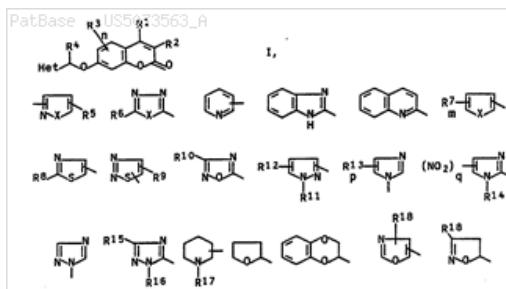
International (IPC 8-9): A61K31/335 A61K31/35 A61K31/40 A61K31/41 A61K31/44 A61K31/443 A61K31/4433 A61K31/445 A61K31/47 A61P25/00 B29C49/18 B65D1/00 B65D1/02 B65D1/46 C07D405/12 C07D407/12 C07D409/12 C07D413/12 C07D417/12 C07D419/12 (Advanced/Invention); B65D1/00 (Advanced/Non-invention); A61K31/35 A61K31/40 A61K31/445 A61K31/47 B65D1/00 B65D1/02 (Core/Invention)

International (IPC 1-7): A61K31/335 A61K31/35 A61K31/365 A61K31/40 A61K31/41 A61K31/415 A61K31/42 A61K31/425 A61K31/44 A61K31/445 A61K31/47 A61K35/44 B29C49/18 B65D1/02 B65D1/09 B65D85/72 B67D1/04 C07D211/22 C07D213/24 C07D215/14 C07D231/10 C07D233/54 C07D235/12 C07D249/08 C07D261/02 C07D263/30 C07D271/02 C07D275/02 C07D277/20 C07D285/04 C07D307/02 C07D309/02 C07D311/16 C07D319/18 C07D333/04 C07D405/12 C07D407/12 C07D409/12 C07D413/12 C07D413/14 C07D417/12 C07D417/14 C07D419/12

CPC: C07D405/12 C07D407/12 C07D409/12 C07D413/12 C07D417/12 B65D1/0284 C07D413/10

European: B65D1/02D2 B65D1/02D2E C07D405/12 C07D407/12 C07D409/12 C07D413/10 C07D413/12 C07D417/12

US: 215/375 215/381 220/609 264/523 264/532 514/363 514/365 514/378 514/406 546/174 546/196 546/283.1 548/127 548/131 548/136 548/143 548/204 548/214 548/235 548/240 548/247 548/248 548/266.4 548/305.1 548/311.4 548/364.4 549/289 549/60



Family:

Publication number	Publication date	Application number	Application date
AT92924 E	19930815	AT19890118382T	19891004
AU199513409 A1	19950921	AU19950013409	19950222
AU684126 B2	19971204	AU19950013409	19950222
BG99494 A	19960430	BG19950099494	19950310
BRPI9501013 A	19951024	BR1995PI01013	19950309
CA1330998 A1	19940726	CA19890614143	19890928
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CL1995001695 A1	19960717	CL19950001695	19951106
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CZ9500609 A3	19950913	CZ19950000609	19950309
DE3834860 A1	19900419	DE19883834860	19881013
DE58905246 D1	19930916	DE19895005246	19891004
DE69505027 D1	19981105	DE19956005027	19950303
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ES2124925 T3	19990216	ES19950103030T	19950303
HU211849 A9	19951228	HU19950000713P	19950630
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HU70576 A2	19951030	HU19950000713	19950309
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JP2149579 A2	19900608	JP19890265343	19891013
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JP7267235 A2	19951017	JP19950051464	19950310
MX9203515 A1	19920801	MX19920003515	19920626
PL307634 A1	19950918	PL19950307634	19950310
TH20606 A	19960917	TH19951000497	19950309
US5073563 A	19911217	US19890417451	19891005
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US5484072 A	19960116	US19940209392	19940310

Priority:

DE19883834860 19881013	CA19890614143 19890928	EP19890118382 19891004
DE19895005246 19891004	US19890417451 19891005	US19910725690 19910703
US19920888445 19920528	US19940209392 19940310	CA19952143038 19950221
CA19952143038 19950221		

Probable Assignee: SCHMALBACH LUBECA AG

Assignee(s): (std): HOOVER UNIVERSAL ; SCHMALBACH LUBECA ; BASF AG

Assignee(s): DTL TECHNOLOGY LTD ; HOOVER UNIVERSAL INC ; AMCOR LTD ; BASF 6700 LUDWIGSHAFEN DE AG ; BASF 67063 LUDWIGSHAFEN DE AG ; TESCHENDORF HANS JUERGEN ; WEIFENBACH HARALD ; RENDENBACH MUELLER BEATRICE ; KUEKENHOEHNER THOMAS ; ROLLEND GEORGE F ; MUSZYNSKI JOHN H ; Hoover Universal Inc. ; BEE AA ESU EFU AG ; FRICKEL FRITZ FRIEDER ; BECK MARTIN H ; DTL TECHNOLOGY PARTNERSHIP LTD ; HOOVER UNIVERSAL INC CORPORACION DEL ESTADO DE MICHIGAN ; SCHMALBACH LUBECA 40880 RATINGEN DE AG ; SCHMALBACH LUBECA AG

Inventor(s): (std): BEATORISU RENDENBATSUHAAMIYURA ; BECK MARTIN H ; FRICKEL FRITZ FRIEDER ; FRICKEL FRITZ FRIEDER DR ; FURITSUTSUUFURIDERU FURITSUKE ; HAARARUTO BUAIFUENBATSUHA ; JIYON EICHI MUSUJINSUKII ; JIYOJOJI EFU ROORENDO ; HANSUUYURUGEN TETSUSHIENDORUFU ; KUEKENHOEHNER THOMAS ; KUEKENHOEHNER THOMAS DR ; MAACHIN EICHI BETSUKU ; MUSZYNSKI JOHN H ; MUZZYNSKI JOHN H ; RENDENBACH BEATRICE DR ; RENDENBACH MUELLER BEATRICE ; RENDENBACH

MUELLER BEATRICE DR ; ROLLEND GEORGE R ; TESCHENDORF HANS JUERGEN ; TESCHENDORF HANS JUERGEN DR ; TESCHENDORF HANS JUERGEN DR ME ; ROLLEND GEORGE F ; TOOMASU KIYUTSUKENHEENAA ; WEIFENBACH HARALD ; WEIFENBACH HARALD DR

Inventor(s):

WEIFENBACH HARALD DR W 6700 LUDWIGSHAFEN DE ; TOOMASU KYUTSUKENHEENAA ; ROLLEND GEORGE F AMHERST NEW HAMPSHIRE 03031 US ; TESCHENDORF HANS JUERGEN DR MED ; TESCHENDORF HANS JUERGEN DR W 6724 DUDENHOFEN DE ; THOMAS KUEKENHOEHNER ; RENDENBACH MUELLER BEATRICE DR W 6701 WALDSEE DE ; MUSZYNSKI JOHN H AUBURN NEW HAMPSHIRE 03032 US ; MARTIN H BECK ; Martin H.Rollend ; KUEKENHOEHNER THOMAS DR W 6710 FRANKENTHAL DE ; HARALD WEIFENBACH ; JOHN H MUSZYNSKI ; JOHN H MUZZYNSKI ; John H. ; HAARARUTO UAIFUENBATSUHA ; HANS JUERGEN TESCHENDORF ; HANSUUYURUGEN TETSUSHENDORUFU ; FURITSUTSUUFURIIDERU FURITSUKERU ; GEORGE F ROLLEND ; George F.Muszynski ; FRICKEL FRITZ FRIEDER DR MOUNTAIN LAKES N J 07046 ; BECK MARTIN H MERRIMACK NEW HAMPSHIRE 03054 US ; DR FRITZ FRIEDER FRICKEL ; BEATORISU RENDENBATSUHAAMIYURAA ; BEATORISU RENDENBATSUHAAMYURAA ; BEATRICE RENDENBACH MUELLER ; Beck

Agent(s):

DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; ROBIC; MACRAE AND CO; JOHANSSON

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

Title: DISPENSING VALVE

Abstract: A dispensing package is provided for fluid products such as liquid soaps, shampoos and conditioners, household detergents, cleaners, polishes, moisturizing creams, and the like, and includes a **container** with a self-sealing dispensing valve mounted therein. The valve includes a marginal portion, a head portion with a discharge orifice therein, and a generally J-shaped connector sleeve having one end connected with the marginal portion and the opposite end connected with the head portion. The connector sleeve has a resiliently flexible construction, with first and second leg portions that are oriented at an acute included angle, and join one another at an arcuate **base** portion to facilitate movement of the head portion of the valve when dispensing product from the **container**. A top dispense embodiment of the package has an inverted J-shaped configuration at the top of the upper leg, which extends arcuately into the head portion of the valve for dispensing products from the top of the **container**.

Classifications:

International (IPC 8-9): A47K5/122 B65D33/38 B65D35/46 B65D35/50 B65D35/52 B65D47/08 B65D47/20 B65D83/00 B65D83/44 B67D5/06 B67D7/06 F16K15/14 F16K21/04 F16K7/00 (Advanced/Invention);

B65D83/00 B67D7/06 (Advanced/Non-invention);

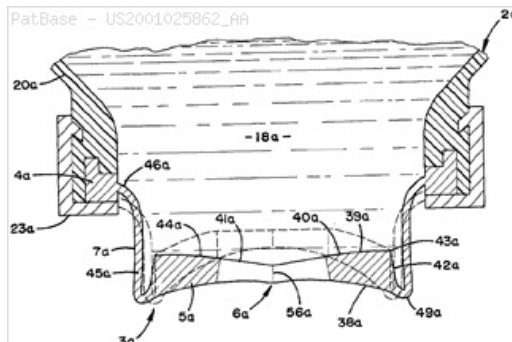
B65D35/00 F16K15/14 F16K21/00 (Core/Invention)

International (IPC 1-7): A47K5/06 A47K5/122 B65D1/32 B65D25/42 B65D33/38 B65D35/00 B65D35/46 B65D35/50 B65D35/52 B65D35/56 B65D37/00 B65D47/06 B65D47/08 B65D47/20 B65D47/44 B65D83/00 B65D83/14 B65D83/44 B67D5/06 F16K15/14 F16K21/04 F16K7/00

CPC: Y10T137/788 F16K15/147 B65D47/2031

European: B65D47/20E2 F16K15/14H3

US: 137/844 220/203 220/203.08 220/203.11 220/203.17 220/203.18 220/203.19 220/89.1 222/105 222/173 222/185 222/185.1 222/185.100P 222/212 222/49 222/490 222/493 222/494 222/496 222/497



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Publication number	Publication date	Application number	Application date
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Priority:

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EP19920310986	19921202	CA19922084465	19921203	JP19920357429	19921204
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Probable Assignee: APTARGROUP INC

Assignee(s): (std): APTARGROUP INC ; SOCIER TOMOTHY R ; SOCIER TIMOTHY R ; SEAQUIST CLOSURES FOREIGN INC ; SEAQUIST CLOSURES ; LIQUID MOLDING SYSTEMS INC

Assignee(s): LIQUID MOLDING SYSTEMS INC MIDLAND MICH US ; APTAR GROUP INC ; APTARGROUP INC CRYSTAL LAKE ILL US ; BROWN PAUL E ; FLUID FROMATION SYSTEM CO ; LIQUID MOLDING SYST INC

Inventor(s): (std): EDWARD BROWN PAUL ; PAUL E BROWN ; PAUL EDWARD BROWN ; POORU II BURAU ; SOCIER TIMOTHY R ; SOCIER TIMOTHY RANDALL ; BROWN PAUL E ; BROWN PAUL EDWARD ; SOCIER TOMOTHY R ; TEIMOSHII AARU SOSHIEERU ; TIMOTHY R SOCIER ; TIMOTHY RANDALL SOCIER

Inventor(s): TIMOSHI R SUOHIRL ; BROWN PAUL EDWARD MIDLAND MICHIGAN 48640 US ; BAULO E BRONE ; BROWN E ; SOCIER TIMOTHY RANDALL ESSEXVILLE MICHIGAN ; SOCIER TIMOTHY RANDALL ESSEXVILLE MICHIGAN 48732 U

Agent(s): GRIFFITH HACK; BORDEN LADNER GERVAIS LLP; IGNACIO ESCOBAR URIBE; APPELT CHRISTIAN W ET AL; WOOD PHILLIPS KATZ CLARK AND MORTIMER

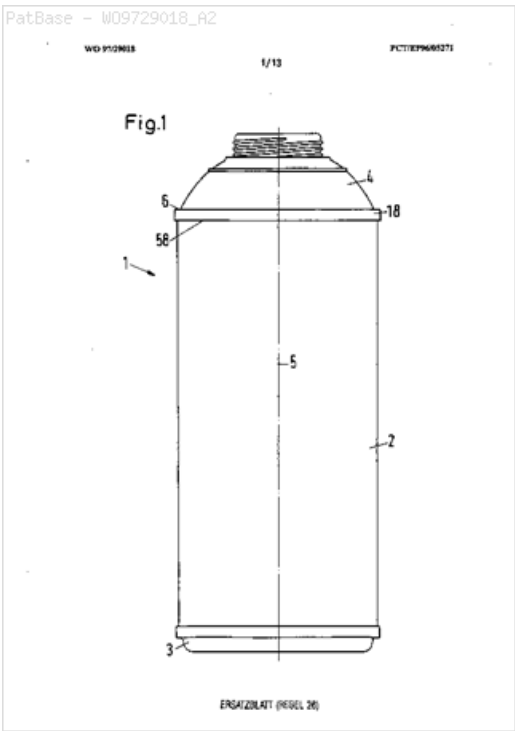
Designated states: AT AU BE CA CH CN DE DK ES FI FR GB GR IE IL IT JP KR LI LU MC MX NL PT SE SG

Title: PACKAGING FOR FLOWABLE PRODUCTS AND PROCESS AND DEVICE FOR PRODUCING SAID PACKAGING

Abstract: The invention relates to packaging for flowable contents which has shell-like side walls (2) with a first plastic material and a **base** (3) and a head section (4) having an upwardly projecting pouring and closure device (7). Said walls consist of a second plastic material which can be sealed to the first plastic material. For economical production of said packaging which is also provided with a screw plug, according to the invention it is provided that the unfilled package (1) is sealed to be gas-tight on all sides, the pouring and closure device (7) has a collar (8) closeable by a screw cap, and the head section (4) tapers toward the top.

Classifications:

International (IPC 8-9): B29C51/00 B29C65/02 B65D1/00 B65D8/04 B65D8/22 (Advanced/Invention); B65D8/04 (Advanced/Non-invention); B29C51/00 B29C65/02 B65D1/00 B65D8/04 (Core/Invention); B65D (Subclass/Invention)
International (IPC 1-7): B29C51/00 B29C65/02 B65D1/00 B65D8/22
CPC: B65D11/04
European: B65D11/04



Family:

Publication number	Publication date	Application number	Application date
AU199710666 A1	19970828	AU19970010666	19961128
DE19604528 A1	19970814	DE19961004528	19960208
WO9729018 A2	19970814	WO1996EP05271	19961128

Priority:

DE19961004528 19960208 WO1996EP05271 19961128

Probable Assignee: TETRA LAVAL HOLDINGS AND FINANCE

Assignee(s): (std): GERKE ROLAND ; KINDINGER HANS ; TETRA LAVAL HOLDINGS AND FINANCE ; TETRA LAVAL HOLDINGS AND FINANCE S A

Assignee(s): TETRA LAVAL HOLDINGS AND FINANCE S A PULLY CH ; TETRA LAVAL HOLDINGS AND FINANCE SA

Inventor(s): (std): GERKE ROLAND ; HANS KINDINGER ; KINDINGER HANS ; ROLAND GERKE

Inventor(s): KINDINGER HANS 64625 BENSHEIM DE ; GERKE ROLAND 35039 MARBURG DE

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

Title: DISPOSABLE FOOD **CONTAINER** WITH A LINEAR **SIDEWALL** PROFILE AND AN ARCuate OUTER FLANGE

Abstract: The present invention is directed to rigid disposable food **containers** provided with a relatively steep **sidewall** with a generally linear profile and an outwardly flared arcuate flange portion. The **containers** are further characterized by a flange outer vertical drop wherein the ratio of the length of the vertical drop to the characteristic diameter of the **container** is greater than about 0.01. By virtue of unique geometry, the **containers** of the invention exhibit improved rigidity and/or rim stiffness yet have favorable runnability in pressware manufacturing systems characteristic of plates of lower strength.

Classifications:

International (IPC 8-9): A47G19/03 A47J47/00 B31B43/00

B31B50/59 (Advanced/Invention);

D21H27/40 (Advanced/Non-invention);

A47G19/00 A47J47/00 B31B43/00 (Core/Invention);

D21H27/30 (Core/Non-invention)

International (IPC 1-7): A47G19/00 A47G19/03 A47G21/00

A47J47/00 B65D1/34 B65D1/36 B65D5/22

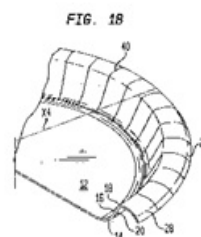
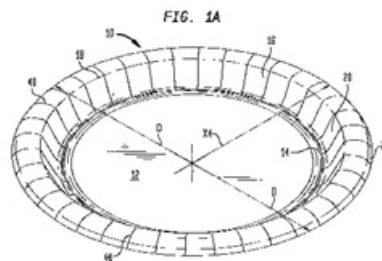
CPC: A47G19/03 D21H27/40 B31B50/592

European: A47G19/03 B31B43/00 L31B201/22A N21H27/40

US: 220/573 220/574 220/657 229/407

PatBase - US2003173366_AA

Patent Application Publication Sep. 18, 2003 Sheet 1 of 33 US 2003/0173366 A1



Family:

Publication number	Publication date	Application number	Application date
CA2416972 AA	20030723	CA20032416972	20030122
CA2416972 C	20100223	CA20032416972	20030122
EP1332972 A2	20030806	EP20030250423	20030123
EP1332972 A3	20040825	EP20030250423	20030123
US2003173366 AA	20030918	US20030348278	20030121
US6715630 BB	20040406	US20030348278	20030121

Priority:

US20020351186P 20020123 US20030348278 20030121 CA20032416972 20030122

Probable Assignee: GPCP IP HOLDINGS LLC

Assignee(s): (std): FORT JAMES CORP

Assignee(s): GEORGIA PACIFIC CHEMICALS LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CONSUMER PRODUCTS LP DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CORRUGATED LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC GYPSUM LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC LLC DELAWARE PARTNERSHIP LTD ; GEORGIA PACIFIC WOOD PRODUCTS LLC DELAWARE LIABILITY CO LTD ; GP CELLULOSE GMBH ZUG SWITZERLAND LIABILITY CO LTD ; GPCP IP HOLDINGS LLC ; ZELINSKI THOMAS W ; VAN HANDEL GERALD J ; LITTLEJOHN MARK B ; CITICORP NORTH AMERICA INC ; COLOR BOX LLC DELAWARE LIABILITY CO LTD ; DEES JEROME G ; DIXIE CONSUMER PRODUCTS LLC ; DIXIE CONSUMER PRODUCTS LLC DELAWARE LIABILITY CO LTD

Inventor(s): (std): ZELINSKI THOMAS W ; VAN HANDEL GERALD J ; LITTLEJOHN MARK B ; DEES JEROME G

Agent(s): GOUDREAU GAGE DUBUC

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

Title: SEPARABLE **CONTAINERS** ARRANGED IN ARRAYS WITH INTEGRALLY FORMED LIDS

Abstract: An integrally formed ensemble of interconnected, separable **containers** and associated lids is adapted for use as disposable **containers** for condiments, sauces, and the like. The interconnected assembly typically includes a first plurality of **containers** arranged in a first linear array and a second plurality of **containers** arranged in a second linear array wherein the first linear array and the second linear array are secured to each other by way of a plurality of tear portions. First and second pluralities of lids are hinged to the **containers** and outwardly disposed with respect thereto such that the lids and **containers** are balanced during a fill operation.

Classifications:

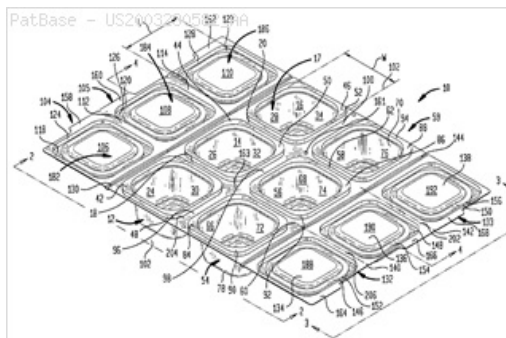
International (IPC 8-9): A47G19/00 B29C47/04 B65D1/24 B65D1/30 B65D1/34 B65D21/02 B65D43/02 B65D43/14 B65D43/16 C08J5/18 (Advanced/Invention); B29C47/00 B65D43/00 C08J5/00 (Core/Invention)

International (IPC 1-7): B29C47/04 B65D1/24 B65D1/30 B65D1/36 B65D21/02 B65D41/06 B65D43/02 B65D43/16 B65D51/04 C08J5/18

CPC: B65D1/265 B65D1/30 B65D21/0233 B65D43/021 B65D43/0212 B65D43/162 B65D2543/00101 B65D2543/00194 B65D2543/00296 B65D2543/00509 B65D2543/00537 B65D2543/00555 B65D2543/00629 B65D2543/00694 B65D2543/0074 B65D2543/00805 B65D2543/00842 B65D2543/00953

European: B65D1/26B B65D1/30 B65D21/02F B65D43/02S3D B65D43/02S3E B65D43/16B L65D543/00Y10B2 L65D543/00Y1F2D L65D543/00Y1F4C3 L65D543/00Y1M6 L65D543/00Y20 L65D543/00Y8D1C L65D543/00Y8D3 L65D543/00Y8D5 L65D543/00Y8S1B4 L65D543/00Y8S1D4 L65D543/00Y8S3B4 L65D543/00Y8S3D4

US: 220/23.4 220/23.400P 220/23.6 220/23.600P 220/507 220/825 220/835 220/839 220/839S



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: GPCP IP HOLDINGS LLC

Assignee(s): (std): FORT JAMES CORP ; RUSH JONATHAN E ; VAN HANDEL GERALD J ; POUNDER JOSEPH R ; HOKS MARGARET P ; FT JAMES CORP ; DIXIE CONSUMER PRODUCTS LLC ; FORT DZHEJMS CORP ; BAKER LOREN G ; WHITMORE REBECCA E

Assignee(s): GPCP IP HOLDINGS LLC ; CITICORP NORTH AMERICA INC ; FORT DZHEJMS KORPOREJSHN ; GEORGIA PACIFIC CORP ; HANDEL GERALD J VAN

Inventor(s): (std): GERALD J VAN HANDEL ; HANDEL GERALD J VAN ; HOKS MARGARET ; JONATHAN E RUSH ; JONATHAN POUNDER JOSEPH R HOKS ; JOSEPH R POUNDER ; BAKER LOREN ; BAKER LOREN G ; LOREN G BAKER ; MARGARET P HOKS ; REBECCA E WHITMORE ; RUSH JONATHAN ; RUSH JONATHAN E ; POUNDER JOSEPH ; VAN HANDEL GERALD ; VAN HANDEL GERALD J ; WHITMORE REBECCA ; WHITMORE REBECCA E ; VAN KHANDER DZHERALD DZH ; UITMOR REBECCA EH ; RASH DZHONATAN EH ; PAUNDER DZHOZE R ; KHOKS MARGARET P ; BEJKE LOREN G ; POUNDER JOSEPH R ; HOKS MARGARET P

Inventor(s): POUNDER JOSEPH R HOKS MARGARET P VAN HANDEL GERALD

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OGILVY RENAULT LLP SENCRL SRL; BLAKE CASSELS AND GRAYDON LLP; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUSSER ANWALTSSOZIELTET; MICHAEL W FERRELL ESQ FERRELLS PLLC; PATENT GROUP GA030-43, GEORGIA-PACIFIC LLC; PATENT GROUP GA030 43 GEORGIA PACIFIC LLC; MICHAEL S

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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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: INTERIOR SAFETY CAPSULES

Abstract: The invention involves a device for closing packages, in particular for single use, of **bottle** types or packs that can be nested and recycled. The inner membrane sealed capsule permits advances in terms of storage and hygiene. It is of interest to the packaging sectors that contain a product at atmospheric pressure or under pressure, for aerated or sparkling beverages for instances, for varied products such as foods, pharmaceuticals, chemical products, etc.

Classifications:

International (IPC 8-9): B65D21/00 B65D41/62 B65D47/06 B65D49/12 B65D51/18 B65D51/20 B65D51/24 B65D77/32

B65D81/24 (Advanced/Invention);

B65D21/00 B65D41/00 B65D47/06 B65D51/18

B65D51/24 (Core/Invention)

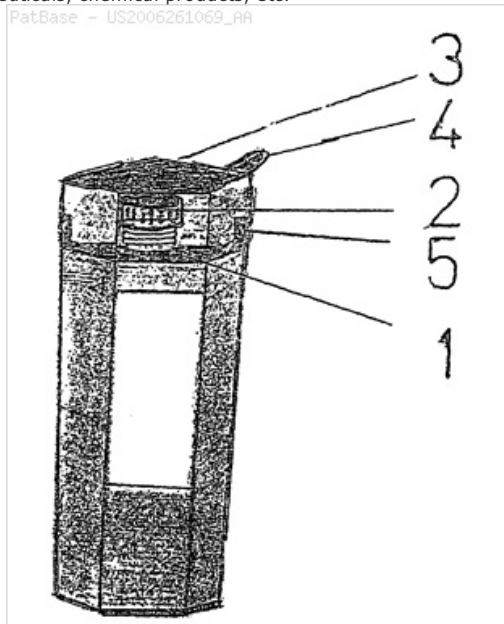
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CPC: B65D47/063 B65D51/185

European: B65D47/06A1 B65D51/18B

US: 220/257.2 220/259.4

PatBase - US2006261069_AA



Family:

Publication number	Publication date	Application number	Application date
AU2004218203 AA	20040916	AU20040218203	20040227
CA2515241 AA	20050804	CA20042515241	20040227
CN1767983 A	20060503	CN200480008401	20040227
EP1597155 A2	20051123	EP20040715345	20040227
FR2850086 A1	20040723	FR20030000574	20030120
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US2006261069 AA	20061123	US20050546953	20050825
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Priority:

FR20030000574 20030120 FR20030002464 20030228 WO2004FR00450 20040227

Probable Assignee: GUILLOT A MICHEL

Assignee(s): (std): GUILLOT MICHEL ; MICHEL GUILLOT

Assignee(s): GUILLOT A MICHEL

Inventor(s): (std): GUILLOT MICHEL ; MICHEL GUILLOT

Agent(s): MIDDLETONS; K AND L GATES; MACRAE AND CO; MICHEL GUILLOT; LAW OFFICES OF JAMES E WALTON PLLC

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

Title: LIDDED PAPERBOARD **CONTAINER**

Abstract: This invention relates generally to lidded disposable pressed paperboard **containers** and more particularly to a disposable lid with an engagement profile particularly useful for paperboard **containers** comprising evert outer portions. The lid of the present invention provides a good fit for paperboard **container bases** having evert outer portions while still allowing the lid to be removed from the **base** without the need for excessive force. The lid profile is relatively insensitive to size variations of paperboard **container bases** having evert outer portions and allows for flexing of paperboard during application so as to provide an unexpectedly good seal so as to provide lidded, disposable paperboard **containers**.

Classifications:

International (IPC 8-9): A47G19/02 A47G19/03 B30B9/28 B31D5/02 B65D1/00 B65D1/34 B65D1/42 B65D43/02

B65D43/08 (Advanced/Invention);

B65D43/02 (Core/Invention)

International (IPC 1-7): A47G19/03 B30B9/28 B31D5/02 B65D1/34 B65D1/42

CPC: B65D1/34 B65D43/0212 B65D2543/00092 B65D2543/00296

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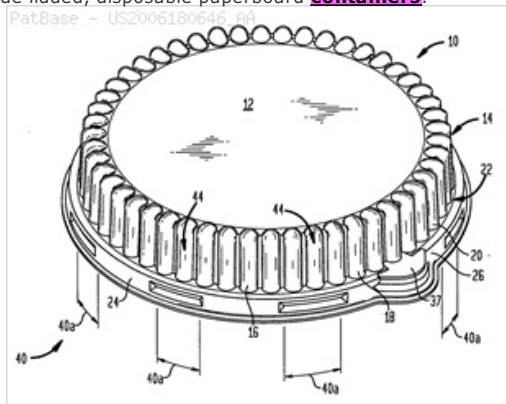
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US: 220/574 229/125.25 229/125.250S 229/125.36 229/125.360S

229/406 229/406P



Family:

Publication number	Publication date	Application number	Application date
CA2484859 AA	20050420	CA20042484859	20041015
CA2484859 C	20130430	CA20042484859	20041015
US2006180646 AA	20060817	US20060390495	20060327
US2006208054 AA	20060921	US20040963686	20041013
US2014076905 AA	20140320	US20130083216	20131118
US2017112304 AA	20170427	US20170397364	20170103
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Priority:

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Probable Assignee: GPCP IP HOLDINGS LLC

Assignee(s): (std): FORT JAMES CORP ; LITTLEJOHN MARK B ; VAN HANDEL GERALD J ; JOHNS ALBERT D ; BREINING MICHAEL A ; DIXIE CONSUMER PRODUCTS LLC ; GPCP IP HOLDINGS LLC ; ZELINKSI THOMAS W ; ZELINSKI THOMAS W

Assignee(s): DIXIE CONSUMER PRODUCTS LLC DELAWARE LIABILITY CO LTD ; CITICORP NORTH AMERICA INC ; COLOR BOX LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CHEMICALS LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CONSUMER PRODUCTS LP DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CORRUGATED LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC GYPSUM LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC LLC DELAWARE PARTNERSHIP LTD ; GEORGIA PACIFIC WOOD PRODUCTS LLC DELAWARE LIABILITY CO LTD ; GP CELLULOSE GMBH ZUG SWITZERLAND LIABILITY CO LTD

Inventor(s): (std): BREINING MICHAEL A ; JOHNS ALBERT D ; LITTLEJOHN MARK B ; VAN HANDEL GERALD J ; ZELINKSI THOMAS W ; ZELINSKI THOMAS W ; LUTZ KEVIN E JR ; HOKS MARGARET P

Inventor(s): BREINING MICHAEL ; LUTZ KEVIN E ; LUTZ KEVIN EJR ; ZELINKSI THOMAS ; LUTZ KEVIN ; VAN HANDEL GERALD ; LITTLEJOHN MARK ; HOKS MARGARET ; JOHNS ALBERT

Agent(s): OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; PATENT GROUP GA030 43 GEORGIA PACIFIC CORP; EDMONDS AND NOLTE PC

Title: RECLOSABLE CUP LID

Abstract: A reclosable cup lid thermoformed from a polymeric material includes a domed member and an elongate closure panel. The thermoformed domed member is provided with a **sidewall** and a top wall, the top wall having upper and lower surfaces and a drinking aperture at a periphery of the top wall. The top wall further defines a pair of slide tracks depending from the lower surface of the top wall and also defines a post aperture disposed inwardly with respect to the drinking aperture. The elongate closure panel has opposed engagement edges, an upper surface provided with a post projecting upwardly therefrom, and a drinking aperture sealing area. As assembled, the domed member and elongate closure panel are configured such that the opposed engagement edges of the elongate closure panel are slidingly mounted in the slide tracks for generally radial displacement.

Classifications:

International (IPC 8-9): A47G19/22 B65D1/18 B65D3/00 B65D41/32 B65D41/48 B65D41/60 B65D43/02 B65D43/06 B65D43/10 B65D43/12 B65D43/20 B65D47/06 B65D47/28 B65D47/32 B65D47/36 B65D47/40 B65D5/64 B65D51/16

B65D51/18 (Advanced/Invention);

A47G19/00 A47G19/22 B65D3/00 B65D41/32 B65D43/02 B65D43/14 B65D47/00 B65D47/04 B65D5/64 B65D51/18 (Core/Invention)

International (IPC 1-7): B65D43/02 B65D47/28 B65D47/32

CPC: B65D43/0208 B65D43/0212 B65D47/286 B65D2543/00027

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European: B65D43/02S3B B65D43/02S3E B65D47/28D

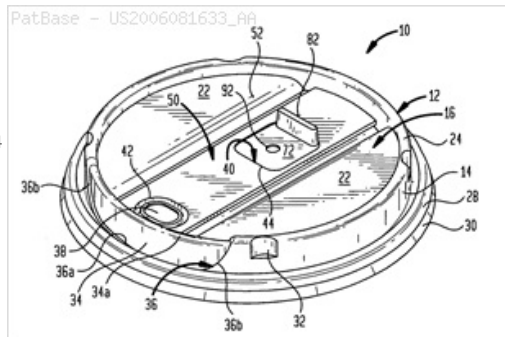
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US: 220/251 220/251.1 220/254.9 220/254.900P 220/345.4 220/345.400S 220/367.1 220/713 220/714 220/715 220/717

229/404 229/404S 229/906.1 229/906.100S



Family:

Publication number	Publication date	Application number	Application date
AU2008232538 AA	20081009	AU20080232538	20080331
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US7850037 BB	20101214	US20070695295	20070402
US7874447 BB	20110125	US20060402426	20060412
VN10590 A1	20120925	VN20090002343	20080331
WO08121942 A2	20081009	WO2008US58863	20080331
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Priority:

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Probable Assignee: GPCP IP HOLDINGS LLC

Assignee(s): (std): FORT JAMES CORP ; SCHMIDTNER ALOIS ; RUSH JONATHAN ; DIXIE CONSUMER PRODUCTS LLC

Assignee(s): DIXIE CONSUMER PRODUCTS LLC DELAWARE LIABILITY CO LTD ; CITICORP NORTH AMERICA INC ; COLOR BOX LLC DELAWARE LIABILITY CO LTD ; RUSH JONATHAN EDWARD ; GEORGIA PACIFIC CHEMICALS LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CONSUMER PRODUCTS LP DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CORRUGATED LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC GYPSUM LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC LLC DELAWARE PARTNERSHIP LTD ; GEORGIA PACIFIC WOOD PRODUCTS LLC DELAWARE LIABILITY CO LTD ; GP CELLULOSE GMBH ZUG SWITZERLAND LIABILITY CO LTD ; GPCP IP HOLDINGS LLC ; SCHMIDTNER ALOIS ANTON

Inventor(s): (std): RUSH JONATHAN ; RUSH JONATHAN E ; SCHMIDTNER ALOIS ; SCHMIDTNER ALOIS A ; SCHMIDTNER ALOIS ANTON ; RUSH JONATHAN EDWARD ; JONATHAN RUSH ; ALOIS SCHMIDTNER

Inventor(s): ALOIS ANTON SCHMIDTNER ; JONATHAN EDWARD RUSH

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; BLAKE CASSELS AND GRAYDON LLP; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER ANWALTSSOZIENTAET; PATENT GROUP GA030 43 GEORGIA PACIFIC CORP; PATENT GROUP GA030-43, GEORGIA-PACIFIC LLC; PATENT GROUP GA030 43 GEORGIA PACIFIC LLC; LEE ERIC M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU
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Title: PACKAGING CAN AND METHOD AND APPARATUS FOR ITS MANUFACTURE

Abstract: A can for packaging food, comprising a metal can body and a **diaphragm** lid (16) formed of lidding material which comprises a multilayer structure with at least an aluminium layer of from 6 to 90 microns thickness and a bond layer for fixing the lid (16) directly to the can body. One method for forming the can forms the lidding material by using an outwardly extending curl (20) at one end of the metal can body as the draw die. Lidding material which is carried by the body maker punch is drawn around the curl of the can body draw die so as to form the lidding material into a cup shape.

Classifications:

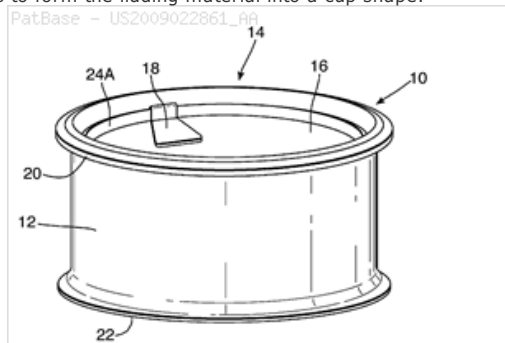
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B65D41/00 B65D6/00 B65D6/14 B65D77/20 B65D8/04 B65D85/00
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B65D85/00 (Core/Invention);
B21D B65B (Subclass/Invention)

International (IPC 1-7): B31B 49/02

CPC: B65D77/2024 B21D51/2661 B21D51/10 B21D51/34 B65D7/36
B21D51/2653 B65D2577/205

European: B21D51/26D B65D77/20E L65D577/20M1

US: 220/359.3 220/359.4 220/521 220/62.11 220/62.110S 220/657
413/2 413/26 413/76 413/76S 426/131 426/131P



Family:

Publication number	Publication date	Application number	Application date
AT453467 E	20100115	AT20060708379T	20060220
AU2006219982 AA	20060908	AU20060219982	20060220
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MY145891 A	20120515	MY20060000800	20060224
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US8746488 BB	20140610	US20060885542	20060220
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WO06092364 A2	20060908	WO2006EP60094	20060220
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ZA200707292 A	20081029	ZA20070007292	20070828

Priority:

EP20050101552 20050301 FR20050004741 20050511 EP20060708379 20060220
EP20090174088 20060220 WO2006EP60094 20060220 US20080885542 20080609
US20140273906 20140509

Probable Assignee: CROWN PACKAGING TECHNOLOGY INC

Assignee(s): (std): CAUNTER NICHOLAS ; CAUNTER NICHOLAS JAMES ; CROWN PACKAGING TECH INC ; CROWN PACKAGING TECHNOLOGY INC ; CROWN PACKAGING UK PLC ; GLEDHILL TANYA ; MAXWELL IAN ; RIVIERE MAURICE ; GLEDHILL TANYA RUTH

Assignee(s): DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS

Inventor(s): (std): CAUNTER NICHOLAS ; CAUNTER NICHOLAS JAMES ; GLEDHILL TANYA ; GLEDHILL TANYA RUTH ; MAURICE RIVIERE ; MAXWELL IAN ; NICHOLAS CAUNTER ; IAN MAXWELL ; RIVIERE MAURICE ; TANYA GLEDHILL ; TANYA GLENHILL

Inventor(s): TANYA RUTH GLEDHILL ; RUTH TANYA GLEDHILL ; JAMES NICHOLAS CAUNTER ; NICHOLAS JAMES CAUNTER ; GLENHILL TANYA

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO; RATLIFF ISMAY HILARY; LIND ROBERT; CARPINTERO MARIO; CABINET LAVOIX; TOLGA CAYLAK; WOODCOCK WASHBURN LLP; BAKER AND HOSTETLER 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

Title: PLASTIC MULTI-PIECE **CONTAINERS** AND METHODS AND SYSTEMS OF MAKING SAME

Abstract: Plastic multi-piece **containers** for storing beverages and other foodstuff are disclosed. In addition, methods, devices and systems for making some or all components of such **containers** are disclosed. In some embodiments, the cup portion is manufactured using vacuum and/or pressure thermoforming methods. However, a cup portion of the **container** can be manufactured by any other suitable process, including, but not limited to, other forms of thermoforming, extrusion, compression molding, injection molding, blow molding and/or combinations thereof. The formed product can include one or more coupling structures for attachment of a closure member. A closure member can engage and/or couple to the cup portion to provide a water-tight and/or air-tight two-piece or multi-piece **container**. In some embodiments, a removable sealing member can be provided between the cup portion and a closure member.

Classifications:

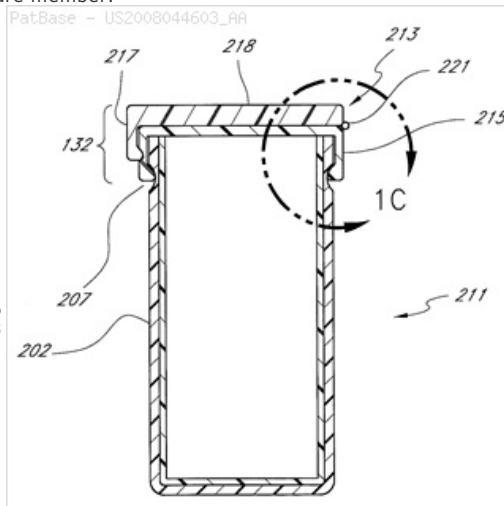
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International (ipc 1-7): A47G19/22 B29C51/04 B29C51/18 B65D1/10 B65D39/00

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US: 264/325 264/325S 425/404 425/404S 428/35.7 428/35.700P



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US2008044603 AA	20080221	US20070757249	20070601
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Priority:

US20060809974P 20060601 US20070892515P 20070301 WO2007US70145 20070531
US20070757249 20070601

Probable Assignee: ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG SA

Assignee(s): (std): FARHA SAID K ; FEICHTINGER HEINRIC ; HUTCHINSON GERALD A ; SEQUIERA CLARENCE ; SEQUEIRA CLARENCE ; FARHA SAID ; FEICHTINGER HEINRIC ; ADVANCED PLASTICS TECHNOLOGIES SA ; ADVANCED PLASTICS TECHNOLOGIES

Assignee(s): ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG S A ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG SA ; ADVANCED PLASTICS TECHNOLOGIES S A ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG S A ; HUTCHINSON SHARON ; PEPSICO INC

Inventor(s): (std): FARHA SAID K ; FEICHTINGER HEINRIC ; SEQUIERA CLARENCE ; SEQUEIRA CLARENCE ; HEINRIC FEICHTINGER ; FEICHTINGER HEINRIC ; FEICHTINGER HEINRIC ; FARHA SAID ; CLARENCE SEQUIERA ; HUTCHINSON GERALD A

Inventor(s): SAID K FARHA ; GERALD A HUTCHINSON ; HUTCHINSON GERALD

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; POLYPATENT; KNOBBE MARTENS OLSON AND BEAR LLP

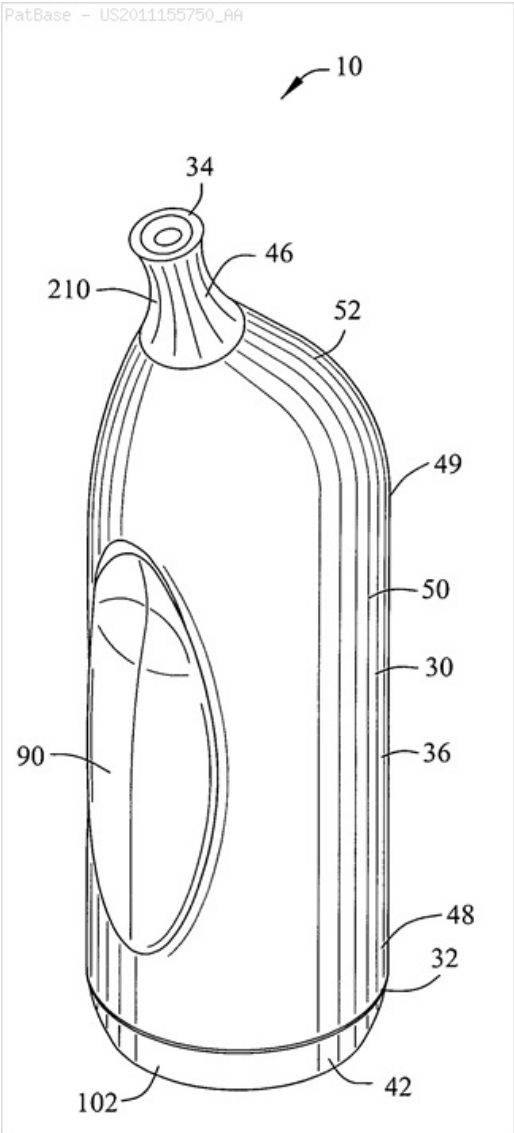
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Title: FLUID CONTAINER AND SUPPORT BRACKET THEREFOR

Abstract: A fluid container is disclosed for retaining and dispensing a fluid into the mouth of an individual. The fluid container comprises a deformable body and defining an exterior surface and an interior chamber. An output end has an output orifice for positioning the fluid exterior to the interior chamber. A valve engages the output orifice for controlling the fluid flowing through the output orifice.

Classifications:

International (IPC 8-9): A45F3/16 A47G19/22 B05B1/00 B05B1/34 B65D1/32 B65D25/40 B65D35/38 B65D37/00 B65D5/72 B65D51/16 (Advanced/Invention)
CPC: A47G19/2288 A47G19/2266 B62J11/00 A45F3/16
European: A45F3/16 A47G19/22B12 B62J11/00
US: 220/714 222/215 222/490 239/327 239/487 239/602



Family:

Publication number	Publication date	Application number	Application date
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US2014252014 AA	20140911	US20140281866	20140519
US8727244 BB	20140520	US20100807289	20100831
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Priority:

US20090275601P 20090831 US20090277318P 20090923 US20100807289 20100831
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Probable Assignee: RELAJ INC

Assignee(s): (std): BERNSTEIN BRUCE ; BERNSTEIN REBECCA ; DIXON JON ; MARKS JONATHAN ; MCDONALD DAVID ; RELAJ INC

Inventor(s): (std): BERNSTEIN BRUCE ; BERNSTEIN REBECCA ; DIXON JON ; MARKS JONATHAN ; MARKS JONATHON ; MCDONALD DAVID

Agent(s): FRIJOUF RUST AND PYLE PA; FRIJOUF DAVID A ET AL

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

Title: DISPENSING CAPSULE

Abstract: A dispensing capsule has a **diaphragm** button, stake and frangible membrane for a system for selectively dispersing the contents of a cup into an attached **bottle**. A frangible membraned cup has a **diaphragm** button operably attached to a stake with the stake's sharp point at one end and the **diaphragm** button on the opposing end. A cavity is disposed in the cup for consumable product defined by side walls and a **base** plate. Preloaded ingredients contained within the hermetically sealed cup are discharged from the dispensing capsule into a **bottle** by simply depressing a button disposed on the **diaphragm** of the cup, thereby actuating the stake to thrust forward and apply concentrated pressure abaxially to the frangible membrane. This concentrated pressure pierces substantially the center of the frangible membrane, causing it to rupture and progressively opening it. The **diaphragm** button locks in this downward position, holding the stake into the opened frangible membrane to maintain the opening, permitting the contents to flow through the frangible membrane and exit the cavity of the cup.

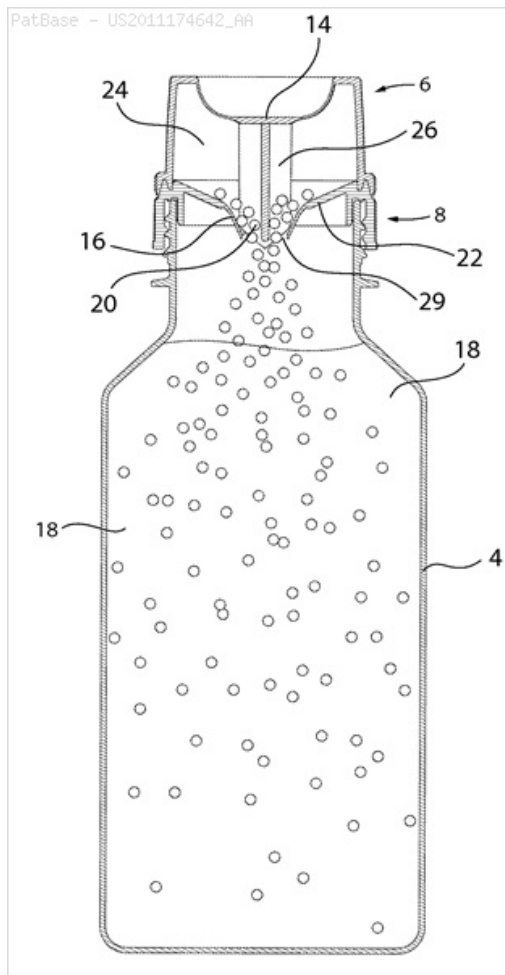
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B65D81/32 B65D85/804 (Advanced/Invention)

CPC: B65D51/2835

European: B65D21/02E4 B65D51/28B1B1 L65D251/02A

US: 206/219 206/222 215/228 215/228S 222/80 222/83

**Family:**

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Priority:

US20100296283P 20100119 US20100766868 20100424 EP20110772759 20110422
WO2011US33570 20110422

Probable Assignee: KARMA CULTURE LLC

Assignee(s): (std): COON DARREN ; COON DARREN M ; KARMA CULTURE LLC

Assignee(s): KARMA CULTURE LLC MENDON ; FIVE STAR BANK ; GENESEE REGIONAL BANK

Inventor(s): (std): COON DARREN ; COON DARREN M ; DARREN M COON

Inventor(s): COON DARREN M BROCKPORT

Agent(s): BLANEY MCMURTRY LLP; MARKS AND CLERK LUXEMBOURG LLP; CARPMAEL ROBERT MAURICE CHARLES; OKABE YUZURU; TAKAHASHI SEIICHIRO; OCHI TAKAO; MATSUI TAKAO; WOODS OVIATT GILMAN LLP; KATHERINE H; MCGUIRE KATHERINE H

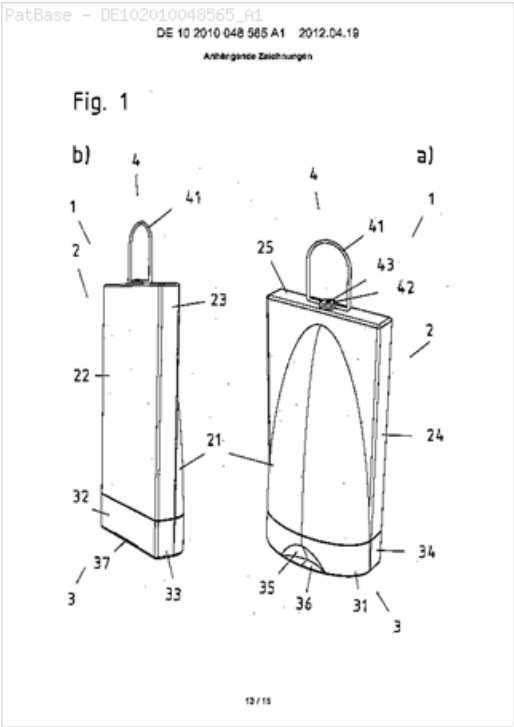
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Title: PLASTIC PACKAGE E.G. TOILETRY **BOTTLE** HAS HOLLOW CASE WITH GAS PASSAGE COMPRISING SEMIPERMEABLE LIQUID-TIGHT **DIAPHRAGM** VALVE FOR PRESSURE AND TEMPERATURE COMPENSATIONS IN CASE

Abstract: The plastic package (1) has hollow case (2) with gas passage comprising semipermeable liquid-tight **diaphragm** valve for pressure and temperature compensations in case. The bottom structure (3) of hollow case is in the form of cone shape. The removal opening in bottom structure is sealed by cap (36).

Classifications:

International (IPC 8-9): B65D1/02 B65D1/06 B65D23/00 B65D23/10 B65D25/22 B65D47/04 (Advanced/Invention)
CPC: B65D25/22 B65D77/225
European: B65D25/22 B65D77/22D



Family:

Publication number	Publication date	Application number	Application date
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Priority:

DE201010048565 20101018

Probable Assignee:

HIDDE

Assignee(s): (std):

HIDDE AXEL R ; KLOSE ODO

Assignee(s):

HIDDE ; KLOSE

Inventor(s): (std):

HIDDE AXEL R DR ING ; KLOSE ODO PROF

Inventor(s):

HIDDE AXEL R ; KLOSE ODO

Title: GLASS **CONTAINERS** WITH IMPROVED STRENGTH AND IMPROVED DAMAGE TOLERANCE

Abstract: The glass **containers** described herein have at least two performance attributes selected from resistance to delamination, improved strength, and increased damage resistance. In one embodiment, a glass **container** may include a body having an inner surface, an outer surface and a wall thickness extending between the outer surface and the inner surface. A compressively stressed layer may extend from the outer surface of the body into the wall thickness. The compressively stressed layer may have a surface compressive stress greater than or equal to 150 MPa. A lubricious coating may be positioned around at least a portion of the outer surface of the body. The outer surface of the body with the lubricious coating may have a coefficient of friction less than or equal to 0.7.

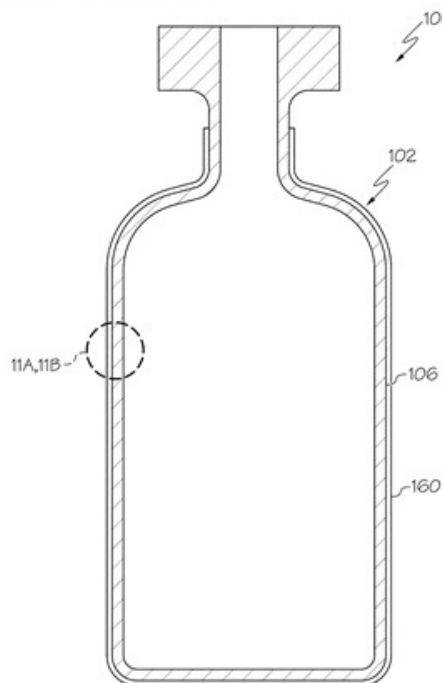
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International (IPC 8-9): A47G19/22 A61J1/00 A61J1/05 A61J1/06 A61J1/14 A61K31/403 A61K38/17 A61K38/18 A61K38/19 A61K38/28 A61K39/395 B22C9/10 B28B11/00 B28B21/00 B32B1/02 B32B17/00 B32B17/06 B32B7/02 B65D1/00 B65D1/02 B65D1/09 B65D1/40 B65D1/42 B65D23/02 B65D23/08 B65D25/00 B65D25/14 B65D25/34 B65D65/42 C03B23/207 C03B27/00 C03B27/03 C03B5/18 C03C15/00 C03C15/02 C03C17/00 C03C17/06 C03C17/22 C03C17/23 C03C17/245 C03C17/28 C03C17/30 C03C17/32 C03C17/34 C03C17/38 C03C17/42 C03C21/00 C03C23/00 C03C3/076 C03C3/078 C03C3/083 C03C3/085 C03C3/087 C03C3/089 C03C3/091 C03C3/14 C03C3/145 C03C4/00 C03C4/18 C03C4/20 C07K16/24 C08G73/10 C08L83/00 C09D179/08 F01D5/18 (Advanced/Invention); C03C21/00 (Advanced/Non-invention)

CPC: B65D1/0207 B65D25/34 B65D23/0814 B65D1/40 C03C17/00 C03C2204/00 A61K39/3955 C03C4/18 A61K38/193 A61K38/17 A61K38/1816 A61K38/28 A61K31/403 C07K16/241 C08K5/544 Y10T428/13 B65D1/09 C03C3/083 C03C3/085 C03C21/00 Y10T428/315 C03C15/02 Y10T428/131 Y10T428/1317 Y10T428/26 C03C4/20 C03C17/3405 B65D25/00 C03C3/087 C03C3/091 C03C17/28 C03B27/00 B65D1/42 B65D13/02 Y02A50/463 Y02A50/465 B65D85/84 A61J1/065 B32B17/06 B65D1/0215 B65D23/02 B65D23/0835 C03B27/0413 C03C17/30 B65D23/0821 C03C17/22 B65D25/14 B65D65/42 C03C17/005 C03C17/32 C03C17/42 C03C21/002 C03C2217/78 C03C2218/111 C08G73/105 C08G73/1071 C08L77/02 C09D179/08 C09D183/08 Y10T428/1321 Y10T428/24942 Y10T428/265 Y10T428/31612 Y10T428/31623 A61J2200/50 A61J1/1468 A61J1/00

US: 1/1 206/216 206/438 206/524.1 206/524.3 206/524.6 206/528 215/12.1 215/12.2 215/379 220/62.11 220/62.15 424/133.1 424/142.1 424/158.1 424/85.1 428/212 428/332 428/336 428/34.1 428/34.4 428/34.6 428/34.7 428/410 428/426 428/429 428/435 501/11 501/49 501/52 501/53 501/55 501/66 501/68 501/69 501/70 501/72 514/20.9 514/210.12 514/5.9 514/7.7 524/600 65/108 65/30.14 65/31

PatBase - US10023495_BB



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Probable Assignee: CORNING INC

Assignee(s): (std): SCHAUT ROBERT ANTHONY ; PEANASKY JOHN STEPHEN ; DRAKE MELINDA ANN ; MORENA ROBERT MICHAEL ; PAL SANTONA ; SCHIEFELBEIN SUSAN LEE ; TIMMONS CHRISTOPHER LEE ; SAHA CHANDAN KUMAR ; HAMILTON JAMES PATRICK ; FADEEV ANDREI GENNADYEVICH ; VENKATARAMAN NATESAN ; VERKLEERAN RONALD LUCE ; VENKATARAMAN NATESAN ; SICK SARA JEAN ; CHANG THERESA ; DEMARTINO STEVEN EDWARD ; CORNING INC ; DANIELSON PAUL STEVEN ; DANIELSON PAUL

STEPHEN ; CORNING CO LTD ; ADIB KAVEH ; BOOKBINDER DANA CRAIG ; CORNING INC ; WEEKS
WENDELL PORTER ; WEEKS WENDELL P

Assignee(s):

CORNING INC CORNING ; BROOKBINDER DANA CRAIG ; CORNING INC 1 RIVERFRONT
PLAZA CORNING NY 14831 US ; VERKLEEREN RONALD LUCE ; KORNING INKORPOREJED

Inventor(s): (std):

ADB KAVEH ; ADIB KAVEH ; ADIB KAVEKH ; ANDREI GENNADYEVICH FADEEV ; BAYNE JOHN
FREDERICK ; BOOKBINDER DANA C ; BOOKBINDER DANA CRAIG ; BOOKBINDER DANA CRAG ;
BUKBAJNDER DANA KREJG ; BUKBINDER DANA KREJG ; C L DEMONS ; CHANDAN KUMAR SAHA ;
CHANG TEREZA ; CHANG THERESA ; CHRISTOPHER LEE TIMMONS ; DANA CRAIG BOOKBINDER ;
DANIELSON PAUL STEPHEN ; DANIELSON I PAUL STEVEN ; DANIELSON PAUL S ; DANIELSON PAUL
STEPHEN ; DANIELSON PAUL STEVEN ; DE MARTINO STEVEN EDWARD ; DEMARTINO STEVEN E ;
DEMARTINO STEVEN EDWARD ; DEMARTINO STIVEN EDVARD ; DEMARTNO STEVEN EDWARD ;
DENIELSON POL STEFEN ; DRAKE MELINDA A ; DRAKE MELINDA ANN ; DRAKE MELINDA ANN ; DREJK
MELINDA ENN ; FADEEV ANDRE GENNADYEVCH ; FADEEV ANDREI G ; FADEEV ANDREI GENNADYEVICH
; FADEEV ANDREJ GENNADEVICH ; HAMILTON JAMES P ; HAMILTON JAMES PATRICK ; HAMLTON JAMES
PATRCK ; HOFF KYLE CHRISTOPHER ; JAMES PATRICK HAMILTON ; JOHN STEPHEN PEANASKY ; KAVEH
ADIB ; KHEMILTON DZHEJMS PATRIK ; MELINDA ANN DRAKE ; MORENA ROBERT M ; MORENA ROBERT
MAJKL ; MORENA ROBERT MCHAE ; MORENA ROBERT MICHAEL ; MORLEY JAMIE LYNNE ; NATESAN
VENKATARAMAN ; PAL SANTONA ; PAUL STEPHEN DANIELSON ; PEANASKY JOHN ; PEANASKY JOHN S ;
PEANASKY JOHN STEPHEN ; ROBERT MICHAEL MORENA ; RONALD LUCE VERKLEEREN ; SAHA
CHANDAN K ; SAHA CHANDAN KUMAR ; SAKHA CHANDAN KUMAR ; SANTONA PAL ; SCHAUT ROBERT
A ; SCHAUT ROBERT ANTHONY ; SCHEFELBEN SUSAN LEE ; SCHIEFELBEIN SUSAN L ; SCHIEFELBEIN
SUSAN LEE ; SHIFELBEIN SYUZAN LI ; SHOT ROBERT ENTONI ; SICK SARA JEAN ; STEVEN EDWARD
DEMARTINO ; SUSAN LEE SCHIEFELBEIN ; T CHANG ; THERESA CHANG ; TIMMONS C L ; TIMMONS
CHRISTOPHER ; TIMMONS CHRISTOPHER L ; TIMMONS CHRISTOPHER LEE ; TIMMONS KRISTOFER LI ;
TMMONS CHRSTOPHER LEE ; VENKATARAMAN NATESAN ; VENKATARMAN NATESAN ; VERKLEERAN
RONALD LUCE ; PARR S ; MOLINARI R M ; DEMARTINO E S ; DANIELSON P S ; PINASKI DZHON STEFEN
; ROBERT ANTHONY SCHAUT ; R A SAUTER ; VERKLEEREN RONALD LUCE ; VERKLEREN RONALD LYUS ;
WECHLEEZEN R L ; WEEKS WENDELL P ; WEEKS WENDELL PORTER

Inventor(s):

WEEKS WENDELL PORTER CORNING ; WEEKS WENDELL P CORNING ; BROOKBINDER DANA CRAIG ;
ROBERT ANTHONY SCHAUT ; AKE MELINDA ANN ; TIMMONS CHRISTOPHER LEEUS ; SCHAUT ROBERT
ANTHONY PAINTED POST ; SAHA CHANDAN KUMARUS ; PEANASKY JOHN STEPHEN BIG FLATS ;
PEANASKY JOHN STEPHENUS ; PAL SANTONA PAINTED POST ; PAL SANTONAUS ; PAL PEANASKY JOHN
STEPHEN ; MORENA ROBERT MICHAEL LINDLEY ; FADEEV ANDREI GENNADYEVICHUS ; DRAKE
MELINDA ANN CORNING ; DEMARTINO STEVEN EDWARD PAINTED POST ; DEMARTINO STEVEN
EDWARDUS ; DANIELSON PAUL STEPHEN DUNDEE ; CHANG THERESAUS ; BOOKBINDER DANA
CRAIGUS

Agent(s):

PHILLIPS ORMONDE FITZPATRICK ; GOWLING LAFLEUR HENDERSON LLP ; GOWLING WLG CANADA LLP ;
HERNANDEZ YORCK DIPL ING ; GREENE SIMON KENNETH ; OLDROYD RICHARD DUNCAN ; KINGSBURY
OLIVER WILLIAM ; GUNNING JACK PETER ; SCOTT MARK ANDREW ; SCHEUERMANN ERIK ; FAHMI
ASSEGAF SH MH ; LANNY SETIAWAN MBA MGMT MA LPC MA LMFT ; OOO YURIDICHESKAYA
GORODISSKIY I PARTNER Y FA ; SPRUSON AND FERGUSON ASIA PTE LTD ; DINSMORE AND SHOHL LLP ;
MICHAEL G ; DINSMORE AND SHOL LLP ; SCHAEBERLE TIMOTHY M ; BUTLER GREGORY B ; INGLE CORY J
ET AL ; SPARKS JONATHAN M ET AL ; TENT BRIAN A ET AL ; TENT BRIAN A

Designated states:

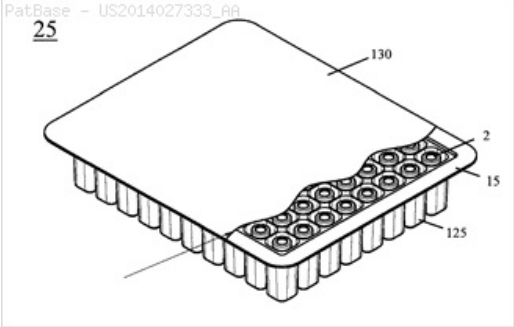
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SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HOLDING STRUCTURE FOR SIMULTANEOUSLY HOLDING A PLURALITY OF CONTAINERS FOR MEDICAL, PHARMACEUTICAL OR COSMETIC APPLICATIONS AND TRANSPORT OR PACKAGING CONTAINER COMPRISING SUCH A HOLDING STRUCTURE

Abstract: A supporting structure for concurrently holding a plurality of cylindrical containers for substances for medical, pharmaceutical or cosmetic applications is provided. The supporting structure includes a supporting base having a plurality of receptacles, which are configured such that the containers can be inserted into the associated receptacles, wherein the receptacles extend in the longitudinal direction of the containers and are configured to hold side wall portions of the containers at least partially clamped. The receptacles are continuous side walls, wherein the opening widths of the receptacles can be adjusted by a coordinated adjustment of the side walls of the receptacles between a first position, in which the containers can be inserted into the receptacles, and a second position in which the containers are clamped. The bottoms or upper ends of the containers are exactly fixed at a given height despite tolerances.

Classifications:

International (IPC 8-9): A61J1/14 A61J1/18 B01L9/00 B01L9/06 B65B3/04 B65D1/24 B65D25/04 B65D25/10 B65D71/50 (Advanced/Invention)
CPC: B01L2200/022 B01L2200/087 B01L2200/18 B01L2300/0858 A61J1/18 A61J1/14 B01L9/06 A61M5/001
US: 206/438 248/346.03 248/346.04



Family:

Publication number	Publication date	Application number	Application date
DE102012103896 A1	20131107	DE201210103896	20120503
DE502013003511 D1	20160804	DE201350003511T	20130503
EP2659979 A2	20131106	EP20130166537	20130503
EP2659979 A3	20150408	EP20130166537	20130503
EP2659979 B1	20160629	EP20130166537	20130503
US2014027333 AA	20140130	US20130886722	20130503

Priority:

DE201210103896 20120503 US20120642142P 20120503 EP20130166537 20130503
US20130886722 20130503

Probable Assignee: SCHOTT AG

Assignee(s): (std): SCHOTT AG

Inventor(s): (std): COULON JOEL ; DIETRICH CLAUDIA ; DIETRICH OSTRY CLAUDIA ; DUERR RALPH ; LOVIS RALPH ; LOVIS RALPH DR ING ; PAWLOWSKI EDGAR ; WISSNER KAI

Agent(s): 2K PATENTANWALTE BLASBERG KEWITZ AND REICHEL PARTNERSCHAFT MBB; 2K PATENTANWALTE BLASBERG KEWITZ AND REICHEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: PROCESS AND APPARATUS FOR TREATING **CONTAINERS** FOR STORING SUBSTANCES FOR MEDICAL, PHARMACEUTICAL OR COSMETIC APPLICATIONS

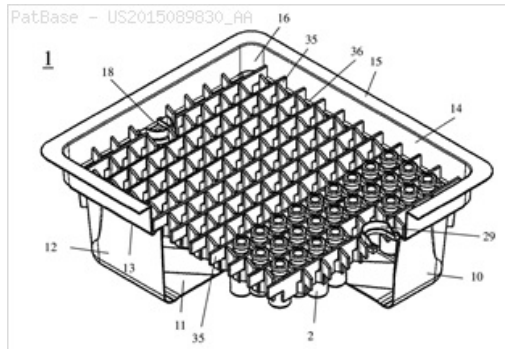
Abstract: In a process and apparatus for treating or processing **containers** (2) that are used for storing substances for medical, pharmaceutical or cosmetic applications or contain the same, cylindrical **containers** open at least at one end are automatically led past or pass through processing stations for treatment or processing by means of a conveying device, while said **containers** are jointly held by a carrier (25; 134) in a regular two-dimensional arrangement. The carrier comprises a plurality of openings or receptacles (32; 39; 87; 120), which determine the regular arrangement. According to the invention, the treatment or processing of the **containers** is performed on or in at least one of the processing stations while the **containers** are supported by the carrier. This opens up new possibilities for treating or processing the **containers**, for example when crimping metal lids or during freeze-drying.

Classifications:

International (IPC 8-9): A61J1/16 A61J7/00 B01L9/00 B01L9/06 B65B21/18 B65B3/00 B65B43/42 B65B43/46 B65B43/54 B65B43/58 B65B43/59 B65B55/04 B65B61/00 B65B7/16 B65B7/28 B65D1/36 B65D21/02 B65D25/04 B65D25/10 B65D71/50 B65D71/70 B65D85/30 B65D85/42 B65G49/05 B67B3/10 B67B3/14 B67C3/24 F26B25/00 F26B5/06 (Advanced/Invention)

CPC: F26B25/003 B65D25/101 B01L2200/025 F26B9/066 G01N2035/00782 G01N2035/0405 G01N2035/0418 B65B55/025 B65B63/08 B65B2220/24 B67B3/10 B67B3/14 A61M5/008 B65B3/006 B65B43/42 B65B43/46 B65B43/59 B65B55/04 B65B61/002 B65B7/16 B65G49/05 B65G2201/0235 B65D85/305 B65D71/70 B65D85/42 B65D1/36 F26B5/06 B65D25/108 A61J1/16 A61J7/0069 B65B7/2892 B01L9/06 B65B3/003 B65B21/18 B65B61/207 B65D71/50 F26B25/001

US: 206/563 206/565 34/284 34/92 53/366 53/486



Family:

Publication number	Publication date	Application number	Application date
CN104272049 A	20150107	CN201380023284	20130502
CN104272049 B	20170412	CN201380023284	20130502
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CN104471336 B	20160413	CN201380037486	20130503
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DE102012103899 B4	20160922	DE201210103899	20120503
DE102012108215 A1	20140116	DE201210108215	20120904
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EP2872843 B1	20160629	EP20130722722	20130503
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EP2886983 B1	20170412	EP20140199819	20130503
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IN00308DN2015 A	20150612	IN2015DN00308	20150113
IN09997DN2014 A	20160701	IN2014DN09997	20141125
IN11528DN2015 A	20160506	IN2015DN11528	20151217
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KR20150034786 A	20150403	KR20157004052	20130503
KR20160023933 A	20160303	KR20167004184	20130502
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US2015166212 AA	20150618	US20150594819	20150112
US2016130022 AA	20160512	US20160995927	20160114
US2016318660 AA	20161103	US20160205119	20160708
US9522752 BB	20161220	US20130398541	20130502
US9828124 BB	20171128	US20160995927	20160114
WO13164422 A2	20131107	WO2013EP59183	20130502
WO13164422 A3	20131227	WO2013EP59183	20130502
WO14009037 A1	20140116	WO2013EP59297	20130503

Priority:

DE201210103899	20120503	US20120642125P	20120503	DE201210106341	20120713
DE201210108215	20120904	US20120696457P	20120904	DE201210110547	20121105
CN201380023284	20130502	EP20130720925	20130502	EP20140189484	20130502

WO2013EP59183	20130502	US20130398541	20130502	CN201380037486	20130503
EP20130722722	20130503	EP20140199819	20130503	WO2013EP59297	20130503
US20140398541	20141103	IN2014DN09997	20141125	US20150594819	20150112
DE201210103899	20150503	DE201510103899	20150503	US20160995927	20160114
US20160205119	20160708				

Probable Assignee: SCHOTT AG

Assignee(s): (std): SCHOTT AG

Inventor(s): (std): WISSNER KAI ; PAWLOWSKI EDGAR ; KOCH KRISTOPHER ; DEUTSCHLE GREGOR FRITZ ; KOCH KRISTOPHE

Inventor(s): KRISTOPHER KOCH ; KOCH KRISTOPHE LEBANON ; KAI WISSNER ; GREGOR FRITZ DEUTSCHLE ; EDGAR PAWLOWSKI ; KOCH KRISTOPHER LEBANON

Agent(s): 2K PATENTANWAELTE BLASBERG KEWITZ AND REICHEL PARTNERSCHAFT MBB; 2K PATENTANWAELTE BLASBERG KEWITZ AND REICHEL; SALVA JOAN; OHLANDT GREELEY RUGGIERO AND PERLE LLP; 2K PATENTANWAELTE BLASBERG KEWITZ AND REICHEL PARTNERSCHAFT

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

Title: INTEGRATED CLEANING IMPLEMENTS AND DISPENSATION DEVICES

Abstract: A cleaning system includes an elongate pole, a mounting structure, a cradle, and a spray **bottle**. The elongate pole has a proximal end for manipulation by a user and a distal end opposite the proximal end. The mounting structure is attached to the distal end of the pole for connecting a mopping implement to the distal end of the pole. The cradle is attached to the pole between the proximal end and the distal end. The spray **bottle** includes a spray head, an operable trigger, and a **container** housing defining an internal reservoir space. The **container** housing is removably received by the cradle. A flat mop can be connected to the mounting structure.

Classifications:

International (IPC 8-9): A47L13/22 B05B11/00 B05B15/06 B08B3/04 B65D1/06 B65D1/40 B65D81/22 B65D90/02 B67D7/02

B67D7/58 (Advanced/Invention);

B05B15/00 (Advanced/Non-invention)

CPC: B67D7/0288 B65D81/22 B05B11/0037 B65D1/40 B65D90/027

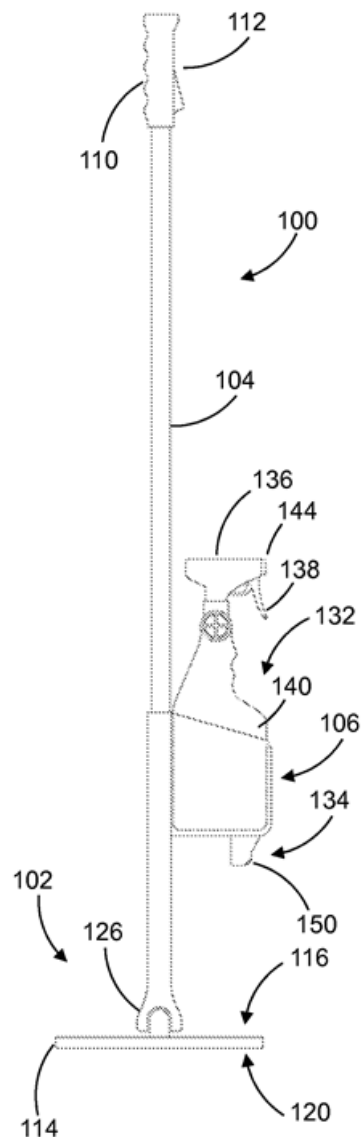
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B05B15/62 B05B15/30 B05B15/65

US: 1/1 134/198 141/18 206/205 220/666 222/153.13 222/382

222/383.1

PatBase - US2013340798_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2013340798 AA	20131226	US20130925223	20130624
US2013340886 AA	20131226	US20130925287	20130624
US2013341212 AA	20131226	US20130925317	20130624
US2013341357 AA	20131226	US20130925260	20130624
US9038819 BB	20150526	US20130925317	20130624
US9216431 BB	20151222	US20130925287	20130624
US9266133 BB	20160223	US20130925260	20130624

Priority:

US20120663051P 20120622 US20130925223 20130624 US20130925287 20130624
 US20130925317 20130624 US20130925260 20130624

Probable Assignee: L AND F INNOVENTIONS LLC

Assignee(s): (std): L AND F INNOVENTIONS LLC

Assignee(s): L AND F INNOVENTIONS

Inventor(s): (std): FORREST PAUL BRADLEY ; FYKE TYLER W ; MCNELIS BRYAN ; PERELLI THOMAS

Agent(s): NKK PATENT LAW PLLC ; NK PATENT LAW PLLC