

Diego Gonzalez

1) Family number: 67084010 (WO17161410A1)

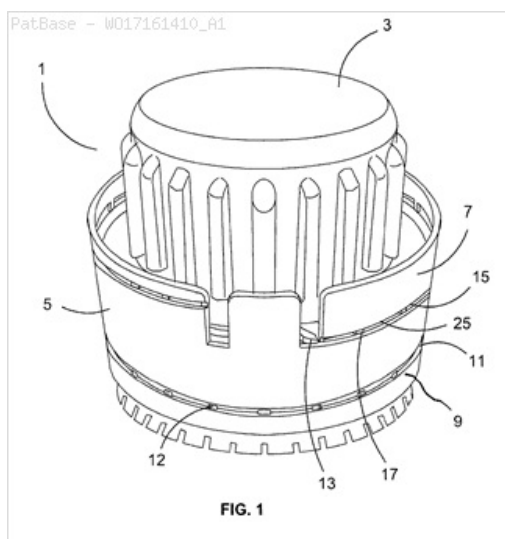
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Title: ANTI-TAMPER AND ANTI-COUNTERFEIT CLOSURE FOR A CONTAINER

Abstract: The present invention is a tamper evident closure assembly for a container that has been pre-filled with a product. The assembly includes a body portion and a cap portion. The container is manufactured to have a necked portion that defines the opening of the container, and the sidewall of the necked portion is manufactured with a specific shape, and the body portion of the assembly is adapted to be attached onto that specific shape and be non-removable from the container, once it has been attached, and the body portion includes a first portion that is adapted to sit internally with respect to the necked portion of the container, and a second portion that is adapted to sit externally with respect to the necked portion of the container, and act like a collar around it, and the closure includes at least one feature that permanently indicates any effort to remove the closure from the container.

Classifications:

International (IPC 8-9): B65D41/34 B65D41/40 B65D41/48
B65D41/58 B65D41/62 B65D51/18 B65D55/02 (Advanced/Invention)
CPC: B65D5/749 B65D47/122 B65D2101/00 B65D2203/10
B65D47/123



Family:

Publication number	Publication date	Application number	Application date
WO17161410 A1	20170928	WO2017AU00072	20170324

Priority:

AU20160901117 20160324	AU20160902967 20160728	AU20160903291 20160819
AU20160904041 20161005	AU20160904112 20161011	AU20170900073 20170112
AU20170900568 20170221		

Probable Assignee: INTRINSIC MAN PTY LTD

Assignee(s): (std): INTRINSIC MAN PTY LTD

Assignee(s): INTRINSIC MANAGEMENT PTY LTD

Inventor(s): (std): SWEENEY MICHAEL ANDREW THOMAS

Agent(s): ANDERSON STEPHEN

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

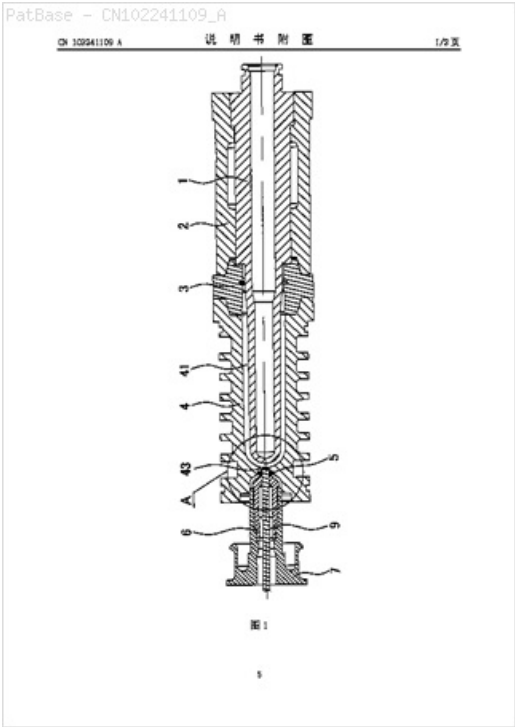
2) Family number: 48306182 (CN102241109A)

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Title: PLASTIC ANTI-LEAKING DEVICE FOR NOZZLE OF INJECTION MOULD

Abstract: The invention relates to a plastic anti-leaking device for a nozzle of an injection mould. The plastic anti-leaking device comprises a mold cavity which provided with a mould cavity. One end of the mold cavity is connected with an installation seat. A mold core is arranged in the mould cavity and the installation seat. The other end of the mold cavity is provided with a material injection hole which is communicated with the mould cavity. The mold cavity is connected with a nozzle seat. A nozzle is arranged in the nozzle seat, and is provided with a nozzle hole. The nozzle hole is communicated with the material injection hole, and is provided with a valve needle. One end of the valve needle inserts into the material injection hole through the nozzle. The apparatus is characterized in that: a temperature resistant and sealed pad is arranged in the connection of the nozzle and the bottom of the mold cavity, and contacts the nozzle, the material injection hole and the valve needle. With the present invention, the temperature resistant and sealed pad is arranged in the connection of the nozzle and the bottom of the mold cavity, such that the sealing performance of the connection of the nozzle and the bottom of the mold cavity is improved, a purpose of prevention of the plastic leaking during the injection moulding process is achieved, the heat taken away from the nozzle and the material injection hole due to cooling can be balanced. When the nozzle is closed, the temperature of the material injection hole is required to low enough to consolidate the melting plastic. With the temperature resistant and sealed pad, the heat transferred into the mold cavity is reduced, slinky appearance of bottle blank is remained, and rejection rate of the product is reduced.

Classifications:
International (IPC 8-9): B29C45/20 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN102241109 A	20111116	CN201010172897	20100512
CN201736401 U	20110209	CN201020191347U	20100512

Priority:

CN201010172897 20100512 CN201020191347U 20100512

Probable Assignee: ZHEJIANG DEMARK MACH CO LTD

Assignee(s): (std): ZHEJIANG DEMARK MACH CO LTD ; ZHEJIANG DEMARK MACHINERY CO LTD

Assignee(s): ZHEJIANG DEMARK MACHINERY CO

Inventor(s): (std): WEIZHI WANG

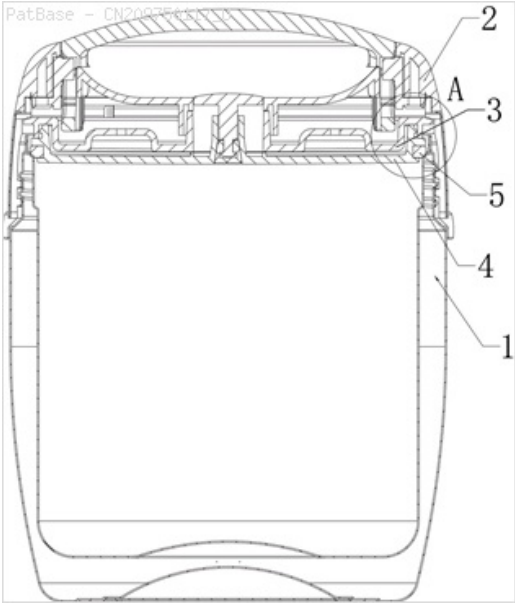
Inventor(s): WANG WEIZHI

3) Family number: 76842335 (CN209750117U) © PatBase

Title: An easy open lid screwed the lunch box (Machine translation)

Abstract: Source: CN209750117U **Machine translation:** The utility model discloses an easy open lid screwed the lunch box, including the bottle and the outer cover, wherein the cover between the bottle and the screw thread connection, also including the inner lid, the rotating disk and sealing rubber ring, wherein said inner cover is fixedly connected to the inner wall at the top of the outer cover; the rotating disk is connected to the inner cover, wherein said rotating disk at the bottom end of the outer peripheral surface is formed with an annular sealing gasket extending mating nested rubber ring groove; on the outer lid and the bottle cooperating sealing connection, said rotary disc fitted on the bottle and the sealing rubber ring and an outer surface of the inner wall of the bottle preform have sealing contact the tissue site.

Classifications:
International (IPC 8-9): A45C11/20 A45C13/00 B65D53/02 B65D81/18 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN209750117 U	20191210	CN201821933157U	20181122

Priority:

CN201821933157U 20181122

Probable Assignee:

LIAO YOGA ARYL

Assignee(s):

LIAO YOGA ARYL

4) Family number: 28691478 (US2005103740A)

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Title: CONTAINER MAIN BODY MADE OF SYNTHETIC RESIN AND PREFORMING MOLD DEVICE

Abstract: It is intended to provide a synthetic resin bottle, in which the stable no-leak condition can be maintained up to a certain cap-turning angle, and air-tightness of the bottle can be fully secured, even if the cap is falsely turned. The body **2** of the synthetic resin bottle is configured to have a smooth seal surface **8** with no irregularity over the entire circumference in the upper portion of the outer neck wall where no parting line is formed. In this configuration, a stable no-leak condition can be maintained up to a certain cap-turning angle, and air-tightness of the bottle can be fully secured, even if the cap is falsely turned.

Classifications:

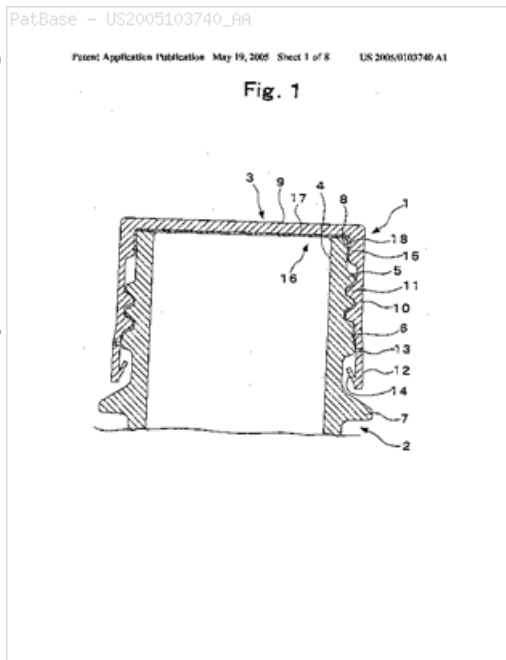
International (IPC 8-9): B29C33/00 B29C33/76 B29C45/00 B29C45/26 B29C45/37 B29C49/00 B29C49/06 B29C49/48 B65D1/00 B65D1/02 B65D1/09 B65D41/04 B65D41/32 B65D41/34 B65D53/00 (Advanced/Invention); B29C45/37 B29L1/00 B29L22/00 B65D1/02 B65D1/09 B65D41/04 (Advanced/Non-invention); B29C33/00 B29C45/26 B29C45/37 B29C49/06 B65D1/00 B65D1/02 B65D41/04 B65D41/34 (Core/Invention)

International (IPC 1-7): B29C45/37 B29C49/48 B29D22/00 B29D23/00 B29L1/00 B29L22/00 B32B1/08 B65D1/02 B65D1/09 B65D23/06 B65D41/04 B65D41/32 B65D53/00

CPC: Y10T428/1352 B29C49/0073 B29B11/08 B29B11/14 B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29B2911/14106 B29B2911/14133 B29B2911/14326 B29B2911/14333 B29B2911/14413 B29B2911/1444 B29B2911/14466 B29C45/0025 B29C49/06 B29C2045/0034 B29K2023/06 B29K2023/12 B29K2067/00 B29K2105/258 B29L2031/565 B29L2031/7158 B65D1/0246 B65D41/0435 B65D41/3428

European: B29C45/00G B29C49/00G B65D1/02D1B B65D41/04D B65D41/34C1 L29B11/08 L29B11/14 L29B911/14B2B L29B911/14B2D L29B911/14B2F L29B911/14B2H L29B911/14B4L L29B911/14B4N L29B911/14D10D2 L29B911/14D10D4D2 L29B911/14D10D4F L29B911/14D2 L29B911/14D4 L29C45/00G4 L29C49/06 L29K105/25C6 L29K23/06 L29K23/12 L29K67/00 L29L31/56B L29L31/7158

US: 215/41 215/41P 215/44 215/45 425/533 428/35.7 428/35.700S



Family:

Publication number	Publication date	Application number	Application date
AU2002357595 AA	20030630	AU20020357595	20021218
AU2002357595 BB	20090528	AU20020357595	20021218
CA2469034 AA	20040602	CA20022469034	20021218
CA2469034 C	20110329	CA20022469034	20021218
CA2712043 AA	20030626	CA20022712043	20021218
CA2712043 C	20130625	CA20022712043	20021218
CN1261329 C	20060628	CN20028009087	20021218
CN1505580 A	20040616	CN20028009087	20021218
DE60245331 D1	20130926	DE20026045331	20021218
DE60246841 D1	20150115	DE20026046841	20021218
EP1457423 A1	20040915	EP20020805024	20021218
EP1457423 A4	20080611	EP20020805024	20021218
EP1457423 B1	20130731	EP20020805024	20021218
EP2325091 A1	20110525	EP20110157005	20021218
EP2325091 B1	20141203	EP20110157005	20021218
JP2003182713 A2	20030703	JP20010384646	20011218
JP3994146 B2	20071017	JP20010384646	20011218
KR100943808 B1	20100224	KR20037014227	20021218
KR20040064217 A	20040716	KR20037014227	20021218
TW200301206 A	20030701	TW20020136546	20021218
TWI247715 B	20060121	TW20020136546	20021218
US2005103740 AA	20050519	US20050495492	20050111
US7516861 BB	20090414	US20050495492	20050111
WO03051723 A1	20030626	WO2002JP13211	20021218

Priority:

JP20010384646 20011218 CA20022469034 20021218 CA20022712043 20021218
EP20020805024 20021218 EP20110157005 20021218 WO2002JP13211 20021218
CA20102469034 20100910

Probable Assignee: YOSHINO KOGYOSHO CO LTD

Assignee(s): (std): HOSOKOSHIYAMA HIROSHI ; ITOU KOJI ; TSUTSUI NAOKI ; YOSHINO KOGYOSHO CO LTD

Assignee(s): YOSHINO KOGYOSHO CO

Inventor(s): (std): ITOU KOJI ; HOSOKOSHIYAMA HIROSHI ; TSUTSUI NAOKI ; ITO KOJI ; SAIETSUSAN HIROSHI ; ITOU K ; HOSOKOSHIYAMA H ; NAOKI ITO KOJI SAIETSUSAN HIRO ; HOSOKOSHIYA MA HIROSHI ; NAOKI TSUTSUI ; HIROSHI SAIETSUSAN ; KOJI ITO

Inventor(s): ITO KOJI SAIETSUSAN HIROSHI TSUTSUI NAOKI ; ITOU K MATSUDO SHI ; HOSOKOSHIYAMA H KOTO KU ; TSUTSUI NAOKI KOTO KU ; KOJI ITOU ; HIROSHI HOSOKOSHIYAMA

Agent(s): SPRUSON AND FERGUSON; FETHERSTONHAUGH AND CO; PATENTANWAELTE LIPPERT STACHOW AND PARTNER; GRAY JAMES; HONG KEE CHON; KIM YOUNG HE; KIM YOUNG HWAN; KANG IL WOO; LEE JI MYUNG; OLIFF AND BERRIDGE PLC

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

5) Family number: 31386496 (WO04106426A1) © PatBase

Title: OXYGEN BARRIER FORMULATIONS

Abstract: An oxygen barrier composition for polymeric materials includes a metal and an additive compound. The oxygen barrier composition can also contain a host polymer. Structures containing an oxygen barrier composition may be formed as a complete package, as a portion of a package, and/or as a precursor to a package.

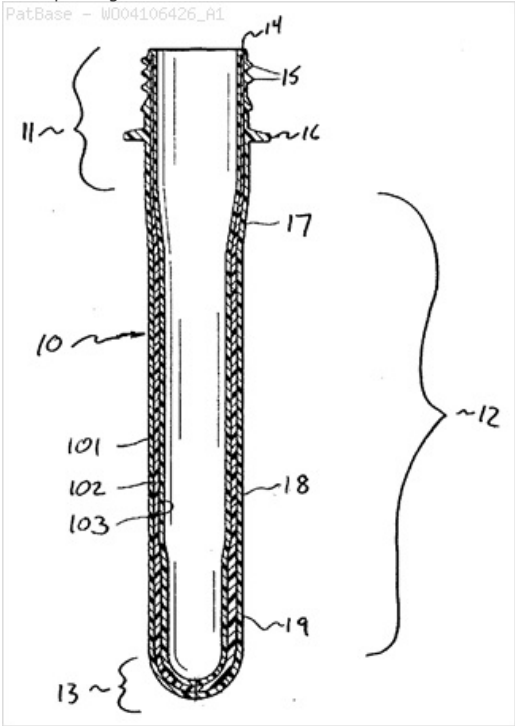
Classifications:

International (IPC 8-9): B32B27/00 B32B27/18 B32B27/32 B65D1/00 B65D1/02 B65D81/26 C08K5/01 C08K5/06 C08K5/07 C08K5/098 C08K5/56 C08L101/00 (Advanced/Invention); B32B27/00 B32B27/18 B32B27/32 B65D1/00 B65D1/02 B65D81/26 C08K5/00 C08L101/00 (Core/Invention)

International (IPC 1-7): B32B27/18 B65D1/02 B65D81/26 C08K5/01 C08K5/098

CPC: B32B7/12 B32B27/08 B32B2307/7244 B32B2439/60 B32B27/18 B65D1/0215 C08K5/098 C08K2201/012

European: B32B27/18 B65D1/02B1 C08K5/098 M08K201/012



Family:

Publication number	Publication date	Application number	Application date
AT420918 E	20090115	AT20040752464T	20040518
AU2004242605 AA	20041209	AU20040242605	20040518
AU2004242605 BB	20091224	AU20040242605	20040518
BRPI0410602 A	20060613	BR2004PI10602	20040518
CA2526678 AA	20051122	CA20042526678	20040518
DE602004019083 D1	20090305	DE200460019083T	20040518
EP1636305 A1	20060322	EP20040752464	20040518
EP1636305 B1	20090114	EP20040752464	20040518
JP2007504349 T2	20070301	JP20060533155T	20040518
WO04106426 A1	20041209	WO2004US15451	20040518
WO04106426 C1	20050721	WO2004US15451	20040518

Priority:

US20030473024P 20030523 WO2004US15451 20040518

Probable Assignee: CONTINENTAL PET TECHNOLOGIES

Assignee(s): (std): FARGHER JAMES M ; GRAHAM PACKAGING PET TECH ; GRAHAM PACKAGING PET TECHNOLOGIES INC ; BOURGEOIS PHILIP D ; CONTINENTAL PET TECHNOLOGIES

Assignee(s): CONTINENTAL PET TECHNOLOGIES INC

Inventor(s): (std): BOURGEOIS PHILIP D ; FARGHER JAMES M ; PHILIP D BOURGEOIS ; JAMES M FARGHER ; FARGHER JAMES ; BOURGEOIS PHILIP

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OGILVY RENAULT LLP SENCRL SRL; JENKINS PETER DAVID

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

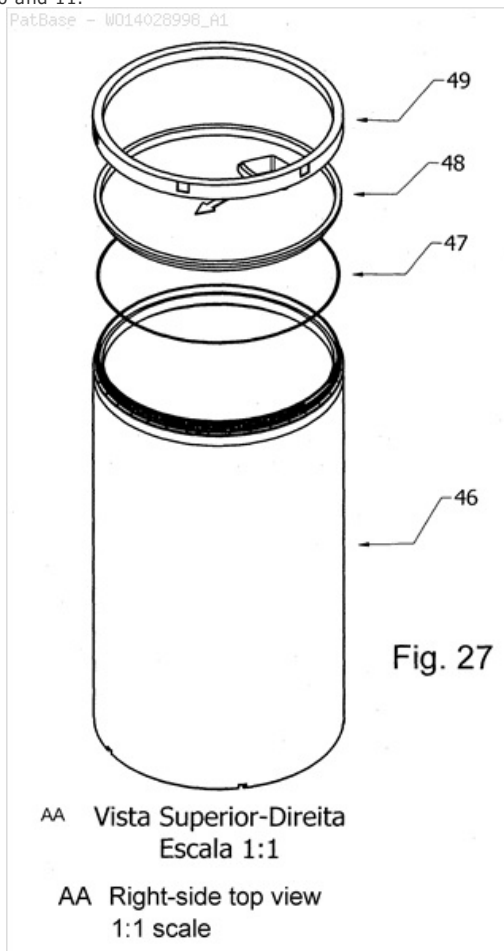
Title: PLASTIC PACKAGE FOR CARBONATED BEVERAGES AND FOODSTUFFS, HAVING A LARGE DIAMETER PLASTIC LID, MANUAL OPENING METHOD, SECURITY SYSTEM WITH TAMPER-EVIDENT FEATURES, AND FINAL CLOSURE AND OPENING SYSTEMS

Abstract: The present invention, which pertains to the packaging field, generally relates to a package or container for beverages, carbonated beverages or foodstuffs, the package being made of plastics, with a can-like shape, and being formed of four parts, as follows: a vessel (figures 08-12), a lid (figures 13-19), a closing ring (figures 20-22) and a sealing ring (figures 23 and 24), which form the subject matter of claims 1, 3, 4, 5 and 8, respectively; the present invention also relates to each of the four components that form the package, and which are the subject matter of claims 3, 4, 5 and 8; the present invention also relates to a moulded thermoplastic preform (figures 01-07), which is the subject matter of claim 2; the present invention also relates to the closing system with final sealing of the lid assembly, which is the subject matter of claims 6 and 7; the present invention also relates to the method for assembling, filling and closing the package, which is the subject matter of claim 9; the present invention also relates to the method for manually opening said package (figure 28), which is the subject matter of claim 10; and the present invention further relates to two sealing systems (figures 23, 24 and 25) that can be used with same, and which are the subject matter of claims 10 and 11.

Classifications:

International (IPC 8-9): B65D1/02 B65D1/16 B65D1/20 B65D43/10 B65D45/30 B65D53/02 B65D85/72 (Advanced/Invention)

CPC: B65D45/30 B65D53/02 B65D1/165 B65D11/02 B65D17/02 B29B2911/14426 B29L2031/565 B29L2031/716



Family:

Publication number	Publication date	Application number	Application date
BR102012021280 A2	20140610	BR20121021280	20120824
WO14028998 A1	20140227	WO2013BR00323	20130823

Priority:

BR20121021280 20120824

Probable Assignee: LIMA BERNARDO ARY ROMCY DE SANFORD

Assignee(s): (std): LIMA BERNARDO ARY ROMCY DE SANFORD

Assignee(s): BERNARDO ARY ROMCY DE SANFORD LIMA

Inventor(s): (std): LIMA BERNARDO ARY ROMCY DE SANFORD

Inventor(s): BERNARDO ARY ROMCY DE SANFORD LIMA

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

Title: DISPENSING CONSUMABLE LIQUIDS

Abstract: A container for holding consumable liquids for commercial food service (e.g., bar service) has a body that defines an inner cavity and has a neck extending to an opening. The neck of the container defines a first thread adapted to receive a cap to seal the cavity. The container also defines a second thread, of a diameter larger than the first thread, adapted to mate directly with a thread of a standard threaded pour spout to retain the pour spout on the container for serving liquids from the container cavity. The container is sized to fit within standard bar service speed racks and can be heat-sealed to contain perishable liquids, such as fruit juice or drink mixes.

Classifications:**International (IPC 8-9):** B29C49/00 B29C49/48 B65D1/02

B65D25/48 B65D43/02 B65D47/06 (Advanced/Invention);

B29C49/04 B29C49/06 (Advanced/Non-invention);

B29C49/00 B29C49/48 B65D1/02 B65D25/38 B65D43/02

B65D47/06 (Core/Invention);

B29C49/04 B29C49/06 (Core/Non-invention)

International (IPC 1-7): B29C49/48 B65D1/02 B65D1/02 B65D43/02

B65D47/06 G01F11/00

CPC: B29B2911/14328 B29B2911/1433 B29B2911/14335

B29B2911/14336 B65D47/06 B29B2911/1402 B29B2911/14026

B29B2911/14033 B29B2911/1404 B29B2911/14106 B29B2911/14133

B29B2911/14326 B29B2911/14333 B29B2911/1442 B29B2911/1444

B29B2911/14466 B29B2911/14486 B29B2911/14673 B29C49/0073

B29C49/04 B29C49/06 B29C49/48 B29K2067/00 B29L2001/00

B29L2031/565 B29L2031/7158 B29L2031/716 B65D1/0246

B65D25/48 B65D43/0231

European: B29C49/00G B29C49/48 B65D1/02D1B B65D25/48

B65D43/02S7E B65D47/06 L29B911/14B2B L29B911/14B2D

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L29L31/716

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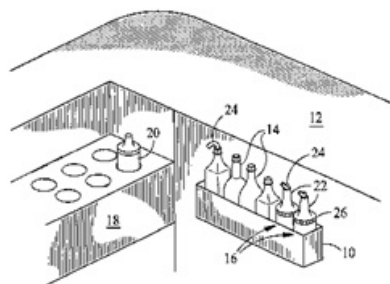
PatBase - US6523720_BA

U.S. Patent

Feb. 25, 2003

Sheet 1 of 5

US 6,523,720 B1

**FIG. 1****Family:**

Publication number	Publication date	Application number	Application date
AU2001270251 AA	20020114	AU20010270251	20010629
AU200170251 A1	20020114	AU20010070251	20010629
AU200170251 A5	20020114	AU20010070251	20010629
CA2381595 AA	20020208	CA20012381595	20010629
US6523720 BA	20030225	US20000607878	20000630
WO0202416 A2	20020110	WO2001US20712	20010629
WO0202416 A3	20020606	WO2001US20712	20010629

Priority:

US20000607878 20000630 WO2001US20712 20010629

Probable Assignee: OCEAN SPRAY CRABBERIES INC**Assignee(s):** (std): OCEAN SPRAY CRANBERRIES INC ; ROBBINS ZEBULON S III**Assignee(s):** ROBBINS ZEBULON S ; OCEAN SPRAY CR BERRIES INC AB ; OCEAN SPRAY CRABBERIES INC**Inventor(s):** (std): ROBBINS III ZEBULON S ; ROBBINS ZEBULON S ; ROBBINS ZEBULON S III**Inventor(s):** ZEBULON S ROBBINS III**Agent(s):** SMART AND BIGGAR**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW**8) Family number: 20166640 (GB750157A)**

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Title: IMPROVEMENTS IN OR RELATING TO ELECTRIC LIGHTING EQUIPMENT

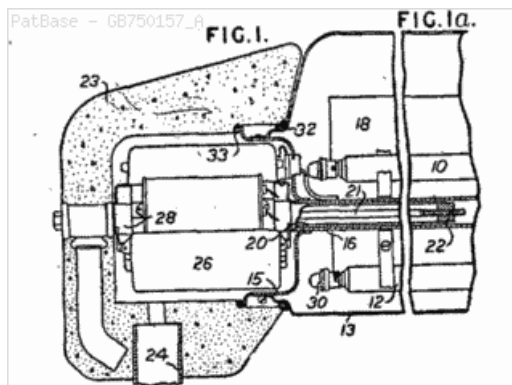
Abstract: 750,157. Lamps. GENERAL ELECTRIC CO., Ltd., and WALDRAM, J. M. March 24, 1954 [March 24, 1953], No. 8101/53. Classes 75(2), 75(3) and 75(4). An electric lighting fitting comprises a sealed unit incorporating a generally tubular light transmitting enclosure member 13, carrying a member, such as a metal tube 16 extending therethrough, which is adapted to engage a support such as a spigot 20, and which carries at least one tubular electric discharge lamp 10 within and parallel to the axis of the enclosure 13, the latter having a detachable end cover 15 for providing access to the lamps 10 and lamp connectors 30 within the enclosure and electric supply leads extending from the connectors 30 to the exterior of the enclosure. The street lamp shown has three tubular fluorescent lamps 10, 11 (not shown), 12, and the transparent or translucent enclosure 13 is of thermoplastic material, e.g. poly-methyl-methacrylate resin and is formed in a mould by application of fluid pressure to a smaller preform while it is heated to render it plastic. The sealed unit is detachable from the spigot 20 which is secured to a concrete housing 23 mountable on a standard by means of a tubular socket 24. The detachable unit is secured on the spigot 20 by means of a bolt 21 engaging a conical nut 22 and when tightened drawing the latter into and expanding the slotted end of the spigot 20 into engagement with the bore of the tube 16. The housing 23 contains electrical control equipment 26 mounted on a tube 28 slidable along the spigot 20 so that the control equipment can be inspected without disengaging the tube 28 from the spigot 20. The enclosure 13 is substantially wedge-shaped in cross section having an upper vaulted wall and flat side walls converging downwardly. Panels 18 formed with refracting prisms (not shown) are secured, as by cementing around their edges to the inner faces of side walls of the enclosure 13, the prisms being presented towards said faces. Gaskets 32, 33 ensure a watertight joint between the detachable unit and the housing 23. The light controlling panels 18 may be replaced by reflectors conveniently formed by coating the enclosure with aluminium. To allow for relief of internal pressure within the enclosure 13 an air vent may be provided through the supporting tube 16 and the spigot 18, an air filter being positioned in the tube 16.

Classifications:**International (IPC 8-9):** F21S8/08 F21V17/00

H05B41/02 (Advanced/Invention);

F21S8/08 F21V17/00 H05B41/00 (Core/Invention)

International (IPC 1-7): F21S3/10 H05B41/02**CPC:** F21S8/086 F21V17/00 H05B41/02 F21Y2103/00

**Family:**

Publication number	Publication date	Application number	Application date
GB750157 A	19560613	GB19530008101	19530324

Priority:

GB19530008101 19530324

Probable Assignee: JOHN MALYON WALDRAM**Assignee(s):** (std): GEN ELECTRIC CO LTD ; JOHN MALYON WALDRAM**Assignee(s):** THE GENERAL ELECTRIC COMPANY LIMITED ; GENERAL ELECTRIC CO LTD**9) Family number: 1111820 (US5799712A)**

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Title: TONER CARTRIDGE TONER DAM REPLACEMENT AND METHOD THEREFOR

Abstract: In order to insert a replacement toner dam in an assembled toner cartridge, the opposing sides of the toner cartridge are caused to move towards each other so as to deform the cartridge and cause openings to appear at opposing ends thereof. A pair of web spring carriers are inserted into and through the openings so they exit from one opening. A new toner dam is inserted between web spring carriers at the portion thereof that exits from the opening. The web spring carriers are then withdrawn until the replacement toner dam is in a proper position. The dam is then held in position and the web spring carriers are freely withdrawn. This method thereby enables replacement of the toner dam without injury to seals at either end of the toner cartridge. Various non-adhesive bearing toner dam structures are shown, each of which has a flexible portion that engages a toner bottle flange and thereby enables a toner seal to be achieved without use of adhesive. Additional methods are described which require disassembly of a used toner cartridge and replacement of certain parts thereof.

Classifications:**International (IPC 8-9):** G03G15/08 (Advanced/Invention);

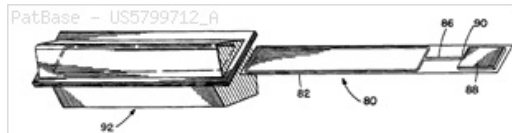
G03G15/08 (Core/Invention)

International (IPC 1-7): G03G15/06 G03G15/08**CPC:** Y10S222/01 G03G15/0884 G03G15/0894 G03G2215/00987

G03G2215/00991 G03G2215/00995 Y10T156/1967

European: G03G15/08H3R G03G15/08R S03G215/00R

S03G215/00R1 S03G215/00R1A

US: 141/287 141/364 156/344 156/762 222/DIG.1 277/34.6 355/260 399/109**Family:**

Publication number	Publication date	Application number	Application date
DE69332403 D1	20021121	DE19936032403	19931216
DE69332403 T2	20030703	DE19936032403T	19931216
EP0627672 A2	19941207	EP19930120298	19931216
EP0627672 A3	19970806	EP19930120298	19931216
EP0627672 B1	20021016	EP19930120298	19931216
JP3432000 B2	20030728	JP19940142382	19940601
JP6348129 A2	19941222	JP19940142382	19940601
US5799712 A	19980901	US19950395769	19950228

Priority:

US19930071909 19930601 US19950395769 19950228

Probable Assignee: HEWLETT PACKARD DEVELOPMENT CO LP**Assignee(s):** (std): HEWLETT PACKARD CO**Assignee(s):** HEWLETT PACKARD CO HP ; HEWLETT PACKARD CO N D GES D STAATES DELAWARE PA ; HEWLETT PACKARD COMPANY ; HEWLETT PACKARD DEVELOPMENT CO LP ; HEWLETT PACKARD CO N D GES D STAATES DELAWARE PALO ALTO ; HEWLETT PACKARD CO NDGESDSTAATES DELAWARE PALO ALTO ; HP INC**Inventor(s):** (std): AARON BOB ; BOBU AARON ; KELLY GAR P ; DAVIDSON DENNIS P ; GIYAA PII KERII ; DENIISU PII DEIBUITSUDOSON**Agent(s):** ONISHI AKIHIRO**Designated states:** DE FR GB IT**10) Family number: 54417838 (WO13110794A1)**

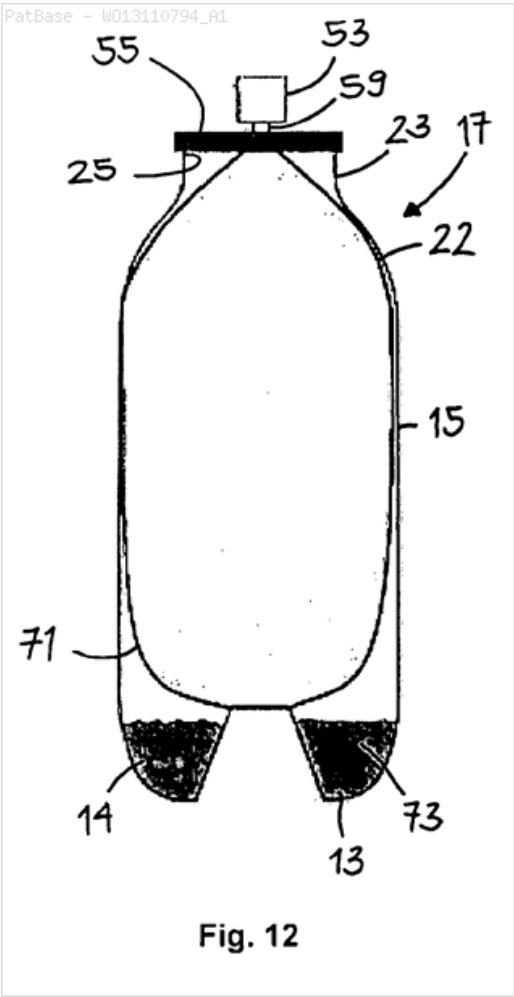
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Title: PRESSURE VESSEL**Abstract:** A pressure vessel, in particular for use as aerosol bottle or can, has a substantially dimensionally stable,

preferably cylindrical first container (11) with a base, side walls and a neck region with an opening. A lid, in which a valve (57) is integrated, closes the opening. A second vessel (71) is arranged in the first vessel (11), wherein a base composition which is to be discharged is accommodated in one of the two vessels and a propellant composition in the form of a nutrient solution (73) and micro-organisms is accommodated in the other vessel. The first vessel (11) is distinguished by the fact that it is produced from a barrier-free thermoplastic.

Classifications:

International (IPC 8-9): B65D83/60 B65D83/62 B65D83/64 C09K3/30 (Advanced/Invention)
CPC: B65D83/625 B65D83/643 B65D83/752 C09K3/30



Family:

Publication number	Publication date	Application number	Application date
CH706042 A1	20130731	CH20120000122	20120127
DE502013007132 D1	20170608	DE201350007132T	20130125
EP2807091 A1	20141203	EP20130701277	20130125
EP2807091 B1	20170503	EP20130701277	20130125
WO13110794 A1	20130801	WO2013EP51512	20130125

Priority:

CH20120000122 20120127 CH20120012212 20120127 EP20130701277 20130125
WO2013EP51512 20130125

Probable Assignee: ALPLA WERKE

Assignee(s): (std): ALPLA WERKE ; ALPLA WERKE ALWIN LEHNER GMBH U CO KG

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

Inventor(s): (std): SIEGL ROBERT ; SIEGEL ROBERT

Inventor(s): ROBERT SIEGEL

Agent(s): KOHLER SCHMID MOEBUS PATENTANWAELTE PARTNERSCHAFTSGESELLSCHAFT MBB; RIEDERER HASLER AND PARTNER PATENTANWAELTE AG; HASLER ERICH

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