

Search history

- Search 1: TAC=(bottle or (beverage container)) and IC=B65D and FT=((internal* and (embossment or stopper or vented* or surfaces or projections) and neck) (Results 5500)
- Search 2: (1) and PD<20140606 (Results 5174)
- Search 3: TAC=(bottle or (beverage container)) and IC=B65D and FT=((internal* W3 (embossment or stopper or vented* or surfaces or projections) and neck) and PD<20140606 (Results 420)
- Search 4: TAC=(bottle or (beverage container)) and IC=B65D and FT=((((internal* W3 (embossment or stopper or vented* or surfaces or projections)) W5 axial*) and neck) and PD<20140606 (Results 4)
- Search 5: TAC=(bottle or (beverage container)) and IC=B65D and FT=((((internal* W3 (embossment or stopper or vented* or surfaces or projections)) W5 (axial* or long*)) and neck) and PD<20140606 (Results 11)
- Search 6: TAC=(bottle or (beverage container)) and FT=((((squeeze* or juic*) W3 fruit*) and neck) and IC=B65D and PD<20140606 (Results 489)
- Search 7: TAC=(bottle or (beverage container) and ((squeeze* or juic*) W3 fruit*)) and FT=((neck) and IC=B65D and PD<20140606 (Results 77)
- Search 8: TAC=(bottle or (beverage container)) and FT=((((squeeze* or juic*) W3 fruit*) W5 insert*) and neck) and IC=B65D and PD<20140606 (Results 2)
- Search 9: TAC=(bottle or (beverage container)) and FT=((fruit* W5 insert*) and neck and (embossment or stopper or vented* or surfaces or projections)) and IC=B65D and PD<20140606 (Results 4)

- session log created:15 November 2017 14:34:37

- Update information:

PatBase Coverage at Update 2017 Week 45 (Year 2017 Week 45)

PatBase Coverage includes 100+ million documents from over 100 patent-issuing authorities and includes patent applications, granted patents, utility models and designs â€” detailed in the below coverage listings.

Major countries

Publishing body	Document type	Bibliographic publication date		Full-Text publication date	
		Earliest	Latest	Earliest	Latest
CN China	Patent Applications	19850910	20171110	19850910	20171110
	Patents	19930106	20171110	19930106	20171110
	Utility Model Applications	19850409	19921230	19850409	19921230
	Utility Models	19930106	20171110	19930106	20171110
	Designs	19850910	20171110	19850910	20150819
DE Germany	Patent Applications	19211221	20171109	19650317	20171109
	Patents	18770101	20171109	19200113	20171109
	Utility Models	19280626	20171109	19610831	20171109
	EP/WO Patents	19871217	20140410		
EP European Patent Office	Patent Applications	19781220	20171108	19781220	20171108

	Patents	19800109	20171108	19800109	20171108
FR France	Patent Applications	19690307	20171110	19810102	20171020
	Patents	18550227	20171110	19600502	20171110
	Utility Model Applications	19720107	20171110	19800104	20171020
	Utility Models	19730112	20171110	19690802	20171110
GB United Kingdom	Unpublished Patent Applications	19830209	20171101		
	Patent Applications	19790104	20171108	19790104	20171025
	Patents	17820704	20171108	19020911	19811216
JP Japan	Patent Applications	19710116	20171109	19930108	20171102
	Patents	19281026	20171025	19960529	20171025
	Utility Model Applications	19710723	20060209	19990817	20031107
	Utility Models	19640805	19960329		
	Registered Utility Models	19940726	20171026	19940726	20101216
	Designs	20141110	20171106		
KR Republic of Korea	Patent Applications	19781209	20171110	19940103	20171110
	Patents	19700820	20171110	19970104	20171110
	Utility Model Applications	19781127	20171110	19940730	20171110
	Utility Models	19780110	20171110	19970104	20171110
US United States of America	Patent Applications	20010315	20171109	20010315	20171109
	Patents	18360101	20171107	18560617	20171107
	Designs	18650912	20171107	19770719	20171107
WO World Intellectual Property Organization (WIPO)	Patent Applications	19781019	20171109	19781019	20171109
	Designs	20151023	20171110	20151023	20171110

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- **search:** SS1 TAC=(bottle or (beverage container)) and IC=B65D and FT=(internal* and (embossment or stopper or vented* or surfaces or projections) and neck) (Results 5500)
- List: SS1 1–50 (TAC=(bottle or (beverage container)) and IC=B65D and FT=(internal* and (embossment or stopper or vented* or surfaces or projections) and neck)) (Results 5500)
- List: SS1 1–50 (TAC=(bottle or (beverage container)) and IC=B65D and FT=(internal* and (embossment or stopper or vented* or surfaces or projections) and neck)) (Results 5500)

0) US2002023409A – MEDICAMENT VIAL HAVING A HEAT-SEALABLE CAP, AND...

1) Family number: 30775440 (US2002023409A)

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Title: MEDICAMENT VIAL HAVING A HEAT-SEALABLE CAP, AND APPARATUS AND METHOD FOR FILLING THE VIAL

Priority:

AU20010247981	20010216	AU20030299041	20030903	AU20080212024	20080905
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Family:

Publication number	Publication date	Application number	Application date
AR040057 AA	20050316	AR2002P100449	20020211
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<u>ZA200502121 A</u>	20080130	ZA20050002121	20030903

Probable Assignee: MEDINSTILL DEV LLC

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Inventor(s): DR DANIEL PY ; PY DANIEL STAMFORD ; ASSION NORBERT ; NORBERT M ASSION ; ASSION NORBERT MATHAIS

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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

International class
(IPC 8-9): A61B19/00 A61J1/00 A61J1/05 A61J1/14 A61J1/18 A61J1/20 A61J3/00 A61L2/03 A61L2/08 A61M5/32 B01L3/00 B01L3/14 B29C65/00 B29C65/16 B29C65/18 B29C67/00 B65B1/04 B65B1/20 B65B3/00 B65B3/02 B65B3/04 B65B3/06 B65B3/26 B65B51/10 B65B53/02 B65B55/02 B65B55/04 B65B55/06 B65B55/08 B65B57/00 B65B57/02 B65B7/16 B65D1/00 B65D3/00 B65D39/00 B65D39/04 B65D41/20 B65D47/04 B65D47/36 B65D51/00 B65D51/02 B65D51/16 B65D51/18 B65D53/00 B65D65/02 B67C3/00 B67C7/00 C07K C09K3/10 (Advanced/Invention); A61J1/00 A61J1/14 A61J1/20 B29L31/00 B65B1/04 B65B39/00 B67C3/00 (Advanced/Non-invention); A61J1/00 A61J1/05 A61J1/14 B65B1/04 B65B3/00 B65D39/00 (Core/Invention); A61J B65B B65D B67B B67C (Subclass/Invention)

International class
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CPC: C07K14/47 A61J1/2096 A61M2209/045 A61L2/081 A61L2202/121 A61M2207/00 B65D39/007 B65D51/00 B65B3/027 B65B51/10 B65B55/08 A61J1/1406 A61J1/18 A61L2/08 B29C65/16 B29C65/1616 B29C65/1619 B29C65/1654 B29C65/1677 B29C65/18 B29C66/001 B29C66/342 B29C66/534 B29C66/5344 B29C66/542 B29C66/71 B29C66/73755 B29C66/7392 B29C66/73921 B29C66/7394 B29C66/8322 B29C67/004 B29L2031/7158 B29L2031/753 B65B3/003 B65B7/161 B65D51/002 A61J1/1425 A61J1/1431 A61J1/1468 A61J1/201 A61J1/2013 A61J1/2055 A61J1/2075 B65B2039/009 B29C65/00 A61J1/1412 B29C66/612 B29C66/1222 B29C66/1224 B29C66/12461 B29C66/1312

European class: A61J1/00C A61J1/14B A61J1/14C A61J1/18 A61L2/08 A61L2/08B B29C65/16 B29C65/18 B29C66/001 B29C66/342 B29C66/534 B29C67/00J B65B3/00B B65B69/00A B65B7/16A B65D39/00G3 B65D51/00B C07K14/47 K61J1/14B K61J1/14C4 K61J1/14C6 K61J1/14M K61J1/20A2A K61J1/20A2B K61J1/20A6B K61J1/20A8B K61J1/20F K61L202/121 K61M207/00 K61M209/04F L29C65/16A6B L29C65/16A6D L29L31/7158 L29L31/753

US class: 1/1 14/18.5 14/19.4 141/1 141/11 141/11P 141/11S 141/1P 141/1S 141/2 141/237 141/25 141/284 141/285 141/2P 141/329 141/329S 141/330 141/330S 141/59 141/69 141/69P 141/82 141/82S 141/85 141/92 141/94 215/200 215/247 215/355 220/200 220/200S 220/363 248/35.7 422/102 422/102P 422/22 422/22S 5/340.3 53/167 53/167S 53/284.5 53/284.500S 53/370.8 53/403 53/425 53/425P 53/426 53/426P 53/426S 53/452 53/452S 53/467 53/471 53/471S 53/477 53/477S 53/478 604/411 604/411S 604/414 604/415 604/415S

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 CN101785578, AU2014233167, AU2006222941, AU2006222941, AU2003255458,

Abstract:

Source: US2002023409A A resealable cap for a medicament vial has a base portion formed of vulcanized rubber or like material known for providing a stable environment for the medicament contained within the vial, and a resealable portion overlying the base portion. The resealable portion is made of low-density polyethylene or like material, and can be punctured by a needle or like injection member for dispensing medicament into the vial. Prior to filling, the cap is assembled to the vial and the cap/vial assembly is sterilized. Then, a needle is inserted through the cap and medicament is introduced through the needle and into the vial. Upon withdrawal of the needle, the penetrated region of the cap is fused by laser or direct heat sealing to hermetically seal the needle hole in the cap.

0) US2015210438A – STOPPER FOR A BOTTLE AND SEALING ELEMENT FOR SA...

2) Family number: 55713926 (US2015210438A)

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Title: STOPPER FOR A BOTTLE AND SEALING ELEMENT FOR SAID STOPPER

Priority: AU20130298910 20130805 AU20170225149 20170908 EP20120179272 20120803
EP20130159277 20130314 EP20130003543 20130712 EP20130745588 20130805
WO2013EP02340 20130805 US20150419329 20150203 US20160288817 20161007

Family:	Publication number	Publication date	Application number	Application date
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	AU2017225149 AA	20171005	AU20170225149	20170908
	CA2880955 AA	20150203	CA20132880955	20130805
	CL2015000265 A1	20151204	CL20150000265	20150203
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	WO14019713 A3	20151001	WO2013EP02340	20130805
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Probable Assignee: PATENT ROOM P5 S A R L

Assignee(s):^(std): QUIDING NV ; PATENT ROOM P5 S A R L ; PATENT ROOM P5 S R L ; N V QUIDING

Assignee(s): PATENT ROOM P5 SARL ; HELMIG REINHARD JOSEF ; LANGELAAN PIETER HENDERIKUS ; LEDUN AUDREY ; MOLEN PETER JAN VAN D

Inventor(s):^(std): HELMIG REINHARD JOSEF ; LANGELAAN PIETER HENDERIKUS ; LEDUN AUDREY ; MOLEN PETER JAN VAN D

Agent(s): FB RICE; FB RICE PTY LTD; SMART AND BIGGAR; JOHANSSON AND LANGLOIS LTDA; KARL CHRISTOF; FORTEA JUAN JOSE; INABA YOSHIYUKI; KRAMER AMADO PC

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 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

International class [B65D](#) [B65D1/02](#) [B65D39/00](#) [B65D39/04](#) [B65D39/08](#) [B65D39/12](#) [B65D51/16](#) [B65D51/28](#)
(IPC 8-9): [B65D55/02](#) [B67B1/06](#) (Advanced/Invention)

CPC: B65D39/082 B67B1/06 B65D39/0047 B65D39/0064 B65D39/12 B65D2539/006
B65D39/0094 B65D55/02 B65D51/1616 B65D51/28

US class: 215/356 53/490

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Forward Citations: WO16180908, US9745110, US9718718, US9447313, EP3093253,

Abstract:

Source: US2015210438A The present invention relates to a stopper (1, 400) for a bottle designed for commercial bottling of a beverage or liquid food, preferably a wine bottle, and a sealing element (4, 440) for sealing the stopper (1, 400) in the mouth of the bottle, which is separate from the bottle. The stopper (1, 400) comprises a stopper part (2, 412) for introduction into a mouth of the bottle, and a head part (3, 413) for remaining outside the mouth of the bottle, the head part having a diameter that is larger than that of the stopper part (2, 412), wherein the stopper part (2, 412) comprises a an interlocking mechanism for engaging with a counterpart interlocking mechanism of the sealing element (4, 440). The sealing element (4, 440) is configured to be forced against an inner wall of the mouth, thereby being brought into a sealed position, upon introducing the stopper part (2, 412) into the mouth, in which sealed position the stopper (1, 400) is held on the bottle. The interlocking mechanisms are configured to permit bringing the sealing element into an unsealed position by an unsealing action which comprises rotating the stopper with respect to the bottle.

0) US2001000602A – SNAP–ON, SCREW–OFF CAP AND CONTAINER NECK

3) Family number: 30455912 (US2001000602A)

© PatBase

Title: Snap-on, screw-off cap and container neck

Priority:

CA19912047916	19910725	EP19910309273	19911009	GB19930011495	19930603
GB19950017979	19940310	GB19940004495	19921006	GB19940023499	19921006
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Probable Assignee: PORTOLA PACKAGING INC

Assignee(s):^(std): CAP SNAP CO ; PORTOLA PACKAGING INC

Assignee(s): WAYZATA INVESTMENT PARTNERS LLC ; WELLS FARGO FOOTHILL LLC AS AGENT ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDI ; WELLS FARGO FOOTHILL LLC AGENT AS ; HELLER FINANCIAL INC A DELAWARE BUSINESS TRUST ; LUCH DANIEL ; PORTOLA PACKAGING INC F K A CAP SNAP CO ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDIN ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDINATED CREDITORS) ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDINATED CREDITORS ; REPP RICHARD E ; CAP SNAP CO A CORP OF CALIFORNIA ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGE ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGENT AS CORP ; HELLER FINANCIAL ; HELLER FINANCIAL INC ; HELLER FINANCIAL INC A DE CORP

Inventor(s):^(std):

BIETZER STEVEN H ; CHENAULT RAWSON L ; DANIEL LUCH ; HENSON JOHNNY S ; KRISCHKE KURT ; KRISCHKE KURT A ; LUCH DANIEL ; ABSOLOM ANNA ; REPP RICHARD E ; RICHARD E REPP ; WEST WILLIAM R

Inventor(s): ANNA ABSOLOM ; STEVEN H BIETZER ; RAWSON L CHENAULT

Agent(s): SMART AND BIGGAR; DORSEY AND WHITNEY LLP

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

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B65D77/20 (Advanced/Non-invention);
B29C65/00 B29C65/02 B65D1/02 B65D41/02 B65D41/04 B65D41/32 B65D41/34 B65D51/18 (Core/Invention);
B65D77/10 (Core/Non-invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): B65B7/28 B65D B65D1/02 B65D39/00 B65D41/00 B65D41/16 B65D41/17 B65D41/22 B65D41/34 B65D41/46 B65D41/47 B65D41/48 B65D51/00 B65D51/18 B65D55/08 B67B3/00 B67B3/20

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Abstract:

Source: US2001000602A A tamper-evident, snap-on, screw-off closure is used with a specially shaped

container neck. The neck has double lead external threads and, below the threads, a conical wall having external ratchet teeth. The closure has an upper skirt having internal threads mating with the neck threads. A conical lower skirt is connected to the upper skirt by a plurality of frangible bridges. The lower skirt has internal ratchet teeth to mate with the neck ratchet teeth. The cap skirt threads are double pitch and slightly over 360 degrees in length. When the cap is applied to the neck it snaps on in two stages. The lower skirt has a tear tab which, when pulled, fractures the lower skirt on a vertical line. Continued pulling on the tab sequentially fractures the bridges.

0) US2010298738A – VESSEL, COATING, INSPECTION AND PROCESSING APPA...

4) Family number: 47617404 (US2010298738A)

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Title: VESSEL, COATING, INSPECTION AND PROCESSING APPARATUS

Priority:

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Designated states:

AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH
 CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE
 GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ
 LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ
 NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG
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 (IPC 8-9):

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C23C16/00 C23C16/30 (Core/Invention);
A61J C07D C23C G01M G01N H01L (Subclass/Invention)

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Abstract:

Source: US2010298738A Methods for processing a vessel, for example to provide a gas barrier or lubricity, are disclosed. First and second PECVD or other vessel processing stations or devices and a vessel holder comprising a vessel port are provided. An opening of the vessel can be seated on the vessel port. The interior surface of the seated vessel can be processed via the vessel port by the first and second processing stations or devices. Vessel barrier, lubricity and hydrophobic coatings and coated vessels, for example syringes and medical sample collection tubes are disclosed. A vessel processing system and vessel inspection apparatus and methods are also disclosed.

5) Family number: 30071089 (US2001013500A)

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Title: Apparatus for opening a bottle sealed with a cork stopper

Priority: US19960746799 19961118 US19990273838 19990322 US20010760375 20010112
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 US20020382410P 20020521 US20030735283 20031212 US20030443020P 20030127
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Family:

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(IPC 8-9): [B65D1/02](#) [B65D39/00](#) [B65D39/16](#) [B67B7/06](#) (Advanced/Invention);
[B65D1/02](#) [B65D39/00](#) [B67B7/00](#) (Core/Invention)**International class**
(IPC 1-7): [B65B7/28](#) [B65D1/02](#) [B65D39/00](#) [B65D39/16](#) [B65D41/62](#) [B67B7/06](#)**CPC:** [B65D1/0246](#) [B65D39/16](#) [B67B7/06](#) [B65D39/0011](#)**European class:** [B65D1/02D1B](#) [B65D39/00F1](#) [B65D39/16](#) [B67B7/06](#)

US class: 215/211 215/215 215/277 215/296 215/297 215/299 215/32 215/320 215/320S 215/364 215/44 215/44P 8/1.345 81/3.45 81/3.450S

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Abstract:

Source: US2001013500A An apparatus for removing a cork from a bottle in which an anchor is embedded in the cork and a cork-pulling sleeve is provided for engaging the anchor for removal of the cork. The cork-pulling sleeve includes inner threads that mate with external threads on the neck of the bottle, and rotation of the cork-pulling sleeve in relation to the bottle extracts the cork.

0) US2001003996A – TRANSFER SET FOR VIALS AND MEDICAL CONTAINERS

6) Family number: 28219762 (US2001003996A)

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Title: TRANSFER SET FOR VIALS AND MEDICAL CONTAINERS

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Probable Assignee: BECTON DICKINSON CO

Assignee(s):^(std): BECTON DICKINSON AND COMPANY ; BECTON DICKINSON CO ; BECTON DICKINSON FRANCE ; JANSEN HUBERT ; THIBAUT JEAN CLAUDE ; THIEBAULT JEAN CLAUDE ; BECTON DICKINSON AND CO ; BECTON DICKINSON and CO

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Inventor(s): VOLKER NIERMANN

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU 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

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(IPC 8-9): A61J1/00 A61J1/03 A61J1/05 A61J1/06 A61J1/10 A61J1/14 A61J1/20 A61J3/00 B65B7/28 B65D39/04 B65D41/10 B65D41/32 B65D47/36 B65D51/00 B65D51/18 B65D51/22 B65D77/20 B65D83/00 B67B3/18 B67B5/03 B67B7/92 (Advanced/Invention);

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Abstract:

Source: US2001003996A A transfer set assembly for transferring fluids between a first container, such as a conventional medical vial, having a sealed open end and a second container such as a conventional IV infusion bag. The transfer set includes a collar having a proximate tubular end portion for securement to the container, a needle cannula and holder assembly, which is telescopically received in a distal tubular portion of the collar, and a closure including a tubular body portion having an open proximate end which is telescopically received over the needle cannula and holder assembly and the distal tubular portion of the collar, a closed distal end portion and an inner tubular portion which is integral with the closed distal end. The inner tubular portion includes a free end having spiral camming surfaces which mate with spiral camping surfaces on the inside surface of the tubular distal portion of the needle cannula holder. The tubular body portion of the closure includes lateral slots which receive projections on the collar and contiguous camming surface which extends toward the proximate open end of the closure. Rotation of the closure relative to the collar first drives the mating spiral camming surfaces of the closure and holder together, thereby driving the needle cannula and holder assembly axially to pierce the seal of the container. Continued rotation of the closure drives the projections on the collar against the contiguous angled camming surface, driving the closure from the collar and providing access to the needle cannula for transfer of fluids to a second container, such as an IV infusion bag.

0) US2005016129A – PLUG REPLACING DEVICE AND PLUG REPLACING METHOD...

7) Family number: 32382571 (US2005016129A)

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Title: PLUG REPLACING DEVICE AND PLUG REPLACING METHOD

Priority: JP20020149117 20020523 JP20030064146 20030310 JP20030145574 20030523
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 US20050125519 20050510 US20040493815 20040428 US20060349878 20060208
 US20060493815 20060425 WO2003JP06491 20030523 WO2003JP06490 20030523
 US20060639014 20061214

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Assignee(s):^(std): ISHIMATSU TATSURO ; YAHAGI KEIICHI ; MATSUNAGA HIROYUKI ; OTAKE SATOSHI ; MATSUMOTO HIROKI ; NAGAO KAGENORI ; KUDO SATOMI ; KAWAGUCHI ERI ; NAKAYAMA IKUO ANDREAS ; OGINO YUTA ; NAKAJIMA SYOTARO ; NAKAYAMA IKUO A ; YOSHIDA EIJI ; YOSHIDA YUSUKE ; EIJI YOSHIDA ; EIJI YOSHIDA C O EVERYDAYWINE

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Inventor(s): NAKAYAMA IKUO ; YOSHIDA EIJI YAHAGI KEIICHI MATSUNAGA HIROYUKI

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MARKS AND CLERK; DUANE MORRIS LLP IP DEPARTMENT; DUANE MORRIS LLP; DUANE MORRIS LLP, IP DEPARTMENT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI 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

International class
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International class
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CPC: [B67D3/0003](#) [B67D2001/0481](#) [B67D2001/0814](#) [G01F11/028](#) [G01F11/32](#) [G01F15/18](#) [B65D39/0052](#) [B67B1/00](#) [B67B1/045](#) [B67B7/04](#) [B67B7/0411](#) [B67B7/0441](#)

European class: [B65D39/00G](#) [B67B1/00](#) [B67B1/04B](#) [B67B7/04](#) [B67B7/04D](#) [B67B7/04F6](#) [B67D3/00B](#) [B67D3/00G](#) [G01F11/02B8D](#) [G01F11/32](#) [G01F15/18](#) [L67D1/04G2](#) [L67D1/08A32B](#)

US class: [215/315](#) [215/355](#) [215/355S](#) [215/364](#) [215/364S](#) [222/1](#) [222/129](#) [222/146.6](#) [222/1P](#) [222/399](#) [222/481.5](#) [222/61](#) [53/109](#) [53/264](#) [53/319](#) [53/319S](#) [53/328](#) [53/381.1](#) [53/381.100S](#) [53/381.4](#) [53/403](#) [53/432](#) [53/432P](#) [53/468](#) [53/478](#) [53/485](#) [53/485S](#) [53/489](#) [53/492](#) [53/492S](#) [53/51](#) [53/510](#) [53/510P](#) [53/510S](#) [53/79](#) [53/86](#)

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Abstract:

Source: US2005016129A A stopper change device (10) includes an airtight chamber body (21) detachably mountable on a head of a bottle, a gas supply port (19) for supplying N gas to the chamber body, an air vent valve (57) for discharging air from the chamber body, a first supporting structure (28) movable upward and downward for supporting a corkscrew, and a second supporting structure (34) movable upward and downward for containing a substitute stopper. The first and second supporting structures are mutually position changeable, and one of them is selectively placed above an opening of the bottle. When the first supporting structure (28) is placed above the opening, a bottle stopper can be pulled in N gas atmosphere. On the other hand, when the second supporting structure (34) is placed above the opening, the substitute stopper is mountable on the head of the bottle in N gas atmosphere. By changing the bottle stopper with the substitute stopper using this device, entering of air in the bottle as a cause of deterioration in a quality can be prevented.

0) US5213225A – CONTAINER AND CLOSURE

8) Family number: 13261905 (US5213225A)

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Title: CONTAINER AND CLOSURE

Priority:

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GB19910014871	19910710	GB19910020264	19910923	EP19920915179	19920710
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: BEESON AND SONS LTD

Assignee(s):^(std): BEESON AND SONS LTD ; BISAN END SANZ LIMITED ; BEESON AND SONS LIMITED COMPAN

Assignee(s): BEESON AND SONS LIMITED COMPANHIA DE REINO UNIDO ; BEESON AND SONS LILIMITED ; BEESON AND SONS LIMITED ; BISAN EHND SANS LIMITED ; BEESON AND SONS LTD RICKMANSWORTH HERTFORDSHIRE GB ; BISAN EHND SANZ LIMITED ; KING WITNEY MILNER ; KING ROGER MILNER ; OFFLEY RODNEY GEORGE ; POWELL ROGER EDWIN

Inventor(s):^(std): CROSS ; KING ROGER ; KING ROGER M ; KING ROGER MILNER ; KING WITNEY M ; KING WITNEY MILNER ; OFFLEY RODNEY GEORGE ; OFFLEY RODNEY ; OFFLEY RODNEY G ; OFFLEY RODNEY GEORGE ; POWELL ROGER ; POWELL ROGER E ; POWELL ROGER EDWIN ; RODNEY GEORGE OFFLEY ; RODNI DZHORDZH OFFLEJ ; RODZHER EDVIN PAUELL ; RODZHER MILNER KING ; ROGER EDWIN POWELL ; ROGER MILNER KING

Inventor(s): UITNI MILNER KING ; WITNEY MILNER KING ; WITNEY MILNER KING ; RODZHER MILNER KING[GB] ; RODZHER EHDVIN PAUEHLL[GB] ; RODNI DZHORDZH OFFLEJ[GB] ; ROGER MILNER KING ; POWELL ROGER EDWIN MUNDFORD NORFOLK IP26 5HJ GB ; RODNEY GEORGE OFFLEY ; OFFLEY RODNEY GEORGE MOUNT SORREL LEICESTERSHIRE LE12 7EA GB ; KING WITNEY MILNER LATIMER BUCKS HP5 1UL GB ; MILNER KING ROGER ; KING ROGER MILNER LATIMER BUCKS HP5 1UL GB

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; REINHOLD COHN AND PARTNERS

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN SU TD TG US

International class
(IPC 8-9): [B29C49/06](#) [B65D1/02](#) [B65D1/20](#) [B65D23/06](#) [B65D25/16](#) [B65D39/00](#) [B65D41/04](#) [B65D41/34](#) [B65D41/48](#) [B65D50/00](#) [B65D50/04](#) [B65D51/20](#) [B65D51/24](#) [B65D55/02](#) [B65D55/06](#) (Advanced/Invention);
[B29C49/06](#) [B65D41/34](#) (Advanced/Non-invention);
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International class
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Abstract:

Source: US5213225A A container neck (14) and a container closure comprises a first thread (15) on one of the neck and the closure, a complementary second thread on the other of the neck and the closure such that the closure is moveable from fully disengaged from the neck to fully closed by turning the closure relative to the neck by less than 360 DEG, at least one stop formation (17,18) carried by said one of the neck (14) and the closure, and stop means on said other of the neck and the closure engageable with the stop formation or at least one of the stop formations to hold the closure in a closed position on the neck The arrangement of the or each stop formation (17,18), the stop means and the threads is such that the stop means is rotated past the stop formation or at least one of the stop formations (17,18) without engagement therewith when the closure is screwed on to the neck, engagement of the stop means with the stop formation or at least one of the stop formations commencing only when the closed positioned is neared.

0) US2001011661A – RECHARGEABLE DISPENSERS

9) Family number: 28717141 (US2001011661A)

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Title: Rechargeable dispensers

Priority: AU19950032005 19950725 AU19960065962 19960725 EP20030077637 19960607
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Family:

Publication number	Publication date	Application number	Application date
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<u>US5529216 A</u>	19960625	US19940279978	19940725
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<u>US5871122 A</u>	19990216	US19960668928	19960621
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<u>US6073808 A</u>	20000613	US19990247936	19990211
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<u>US6540109 BA</u>	20030401	US19980192317	19981116
<u>WO9603344 A1</u>	19960208	WO1995US09384	19950725
<u>WO9640583 A1</u>	19961219	WO1996US10015	19960607
<u>WO9705056 A1</u>	19970213	WO1996US12202	19960725
<u>WO9838094 A2</u>	19980903	WO1998IB00501	19980227
<u>WO9838094 A3</u>	19981022	WO1998IB00501	19980227
<u>WO9903778 A1</u>	19990128	WO1998US14548	19980720

Probable Assignee: SUNPAT LLC

Assignee(s):^(std): KLIMA WALTER F ; KLIMA WALTER F JR ; KLIMA WILLIAM L ; SPRAYER L L C ; SPRAYEX INC ; SPRAYEX L L C ; SPRAYEX LLC ; WALTER F KLIMA JR ; SPRAYTEC SYSTEMS LLC ; SPRAYEX LLC SUBSTITUTION UNDER ; SUNPAT L L C ; SPRAYTEC SYSTEMS ; SPRAYTEC SYSTEMS L L C ; SPRAYEX LLC SUBSTITUTION UNDER SECTION 24 1 SU ; WILLIAM L KLIMA

Assignee(s): SPRAYEX LLC SUBSTITUTION UNDER SECTION 24 1 SUBSTITUTION UNDER SECTION 24 1 ; SUNPAT LLC ; SUNPAT LLC LI ILITY CO IN COMMW ABLTD

Inventor(s):^(std):

WALTER F JR KLIMA ; WALTER F KLIMA ; WALTER F KLIMA JR ; WFJRKLIMA ;
WILLIAM L KLIMA ; WLKLIMA ; JR ; KLIMA WALTER F ; WALTER JR ; KLIMA WILLIAM
L ; KLIMA WALTER F JR ; KLIMA W L ; KLIMA W F JR ; KLIMA JR WALTER F ; KLIMA
F

Inventor(s): F KLIMA ; KLIMA WALTER FJR ; KLIMA WALTER ; KLIMA WILLIAM ; W F JR KLIMA ; W
L KLIMA ; WILLIAM L KLIMA ; WALTER F KLIMA

Agent(s): PETER MAXWELL AND ASSOCIATES; GOWLING LAFLEUR HENDERSON LLP; LAW
OFFICES OF WILLIAM L KLIMA PC

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

International class
(IPC 8-9): B05B11/00 B05B7/04 B05B7/26 B05B9/03 B29C49/04 B29C49/06 B29C49/20 B29C49/50
B29C49/74 B29D1/00 B29D22/00 B65D1/00 B65D1/02 B65D1/20 B65D25/08 B65D47/06
B65D81/32 B65D83/76 B67D3/00 B67D5/40 B67D5/52 B67D5/56 B67D7/58 B67D7/70
B67D7/74 (Advanced/Invention);
B29C49/04 B29C49/06 B65D47/06 B65D81/32 B65D83/76 B67D3/00 B67D7/58
B67D7/70 (Advanced/Non-invention);
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B67D3/00 (Core/Invention)

International class
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CPC: B05B11/00 B05B11/3057 Y10T428/13 B05B11/0081 B05B11/0056 B05B11/0083
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European class: B05B11/00 B05B11/00B11C B05B11/00B11C2 B05B11/00B13 B05B11/00B17
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US class: 222/129 222/13 222/130 222/136 222/325 222/383.1 222/383.100S 222/82 222/83.5
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Forward Citations: WO9739831, WO9640583, WO17156438, WO17075024, WO17051178, WO17046719,
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 CN102369148, CN102320425, CN102320425, AU718754, AU2003262109,

Abstract:

Source: US2001011661A Rechargeable dispensers, in particular spray bottle dispensers including at least one chemical reservoir for recharging the spray bottle dispenser. Preferably, a plurality of separate chemical reservoirs containing chemical concentrate are provided within the spray bottle dispenser to fully contain any inadvertent spillage of chemicals, and to insure a high degree of safety against accidental spills, and/or accidental ingestion by children.

0) US2014158659A – BOTTLE WITH VENTED NECK

10) Family number: 56666057 (US2014158659A)

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Title: BOTTLE WITH VENTED NECK

Priority: US20120709288 20121210 US20140297791 20140606 WO2013US70255 20131115
WO2015US32559 20150527 US20160257149 20160906

Family:

Publication number	Publication date	Application number	Application date
AR093854 AA	20150624	AR2013P104558	20131206
AR100750 AA	20161026	AR2015P101794	20150605
AU2013360197 AA	20140619	AU20130360197	20131115
AU2013360197 BB	20161215	AU20130360197	20131115
AU2015355557 AA	20160609	AU20150355557	20150527
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PE11012015 A1	20150806	PE20150000883	20131115
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TW201609490 A	20160316	TW20150117585	20150601
US2014158659 AA	20140612	US20120709288	20121210
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US2016376052 AA	20161229	US20160257149	20160906
WO14092931 A1	20140619	WO2013US70255	20131115
WO16089444 A1	20160609	WO2015US32559	20150527

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s):^(std): OWENS BROCKWAY GLASS CONTAINER ; OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): PAREDES RAUL M

Inventor(s):^(std): BRYANT JESSICA R ; CHISHOLM BRIAN J ; HERMAN MEGAN ; LAIB DOUGLAS ; REISIG KARL A ; MEGAN HERMAN ; DOUGLAS LAIB ; RAUL M PAREDES ; PAREDES RAUL M ; LAIB DOUGLAS ; KARL A REISIG ; JESSICA R BRYANT ; HERMAN DITTRICH MEGAN ; BRIAN J CHISHOLM

Inventor(s): BRIAN CHISHOLM J ; KARL REISIG A ; JESSICA BRYANT R ; RAUL PAREDES M

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON AND LANGLOIS LTDA; JUAN PABLO CADENA SARMIENTO; BLUMBACH ZINNGREBE; IR YT WIDJOJO; SMITH SUSAN L

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE

GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ
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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

International class B29C49/02 B65D1/02 B65D23/00 B65D8/02 C03B9/16 C03B9/193 C03B9/32
(IPC 8-9) C03B9/325 (Advanced/Invention)

CPC: C03B9/325 B65D23/00 B65D2501/0045 B65D1/0246 B65D1/023 C03B9/165 C03B9/1932
C03B9/32

US class: 215/40 215/43 65/362 65/77 65/79

[Classification Explorer](#)

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US9156719 BB, US7976767 BB, US763973 A, US6666001 BB, US6085949 A, US491198
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US2336822 A, US2289046 A, US2012000878 AA, US2010264107 AA, US2010181278
AA, US2009053374 AA, JP2004149163 A2, GB499621 A, GB225951 A, GB191002886 A,
EP2679548 A1, DE289564 A, CN103003163 A, CN102438908 A,

Forward Citations: WO14179006, USD740119, USD724947, USD723923, US9694328, US9656772,
US2016158712,

Abstract:

Source: US2014158659A A glass bottle includes a body having a closed end, a shoulder spaced from the end, a neck extending from the shoulder, and a neck finish at an end of the neck for attachment of a closure, characterized in that the neck finish and at least a portion of the neck adjacent to the neck finish have non-circular internal surfaces.

0) US2013270211A – GLASS CONTAINER WITH INTERNALLY THREADED NECK

11) Family number: 50072701 (US2013270211A)

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Title: GLASS CONTAINER WITH INTERNALLY THREADED NECK

Priority: EP20110727645 20110530 EP20110728580 20110530 IT2010MI01085 20100616
FR20100054201 20100531 US20130701279 20130628 US20150836170 20150826
WO2011EP02659 20110530 WO2011EP02664 20110530

Family:

Publication number	Publication date	Application number	Application date
AR081432 AA	20120829	AR2011P101858	20110530
AR081770 AA	20121017	AR2011P101860	20110530
AU2011260659 AA	20111208	AU20110260659	20110530
AU2011260659 BB	20140925	AU20110260659	20110530
AU2011260662 AA	20111208	AU20110260662	20110530
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CA2801146 AA	20121129	CA20112801146	20110530
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HR20170672 T1	20170714	HR20170000672	20170504
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<u>WO11151047 A2</u>	20111208	WO2011EP02659	20110530
<u>WO11151047 A3</u>	20120126	WO2011EP02659	20110530
<u>WO11151050 A1</u>	20111208	WO2011EP02664	20110530
<u>ZA201208818 A</u>	20140129	ZA20120008818	20110530
<u>ZA201208819 A</u>	20140129	ZA20120008819	20110530

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s):^(std): BRIGNOLO GINO GIOVANNI ; BRIGNOLO GINO GIOVANNI ; CAMPODONICO FEDERICO ; CAMPODONICO FEDERICO ; O I MFG ITALY S P A ; MORETTIN ANBROGIO ; OUEHNS BROKVEHJ GLASS KONTEJNER INK ; OWENS BROCKWAY GLASS CONTAINER INC ; OWENS BROCKWAY GLASS CONTAINER ; PERRONE DALMAZIO ; VILLARET DE CHAUVIGNY BENOIT ; OI EUROP SARL ; MORETTIN ANBROGIO

Assignee(s): O I MANUFACTURING ITALY S P A ; OWENS BROCKWAY GLASS CONTAINER INC PERRYSBURG ; O I MFG ITALY SPA ; OI EUROPE SARL

Inventor(s):^(std): AMBROGIO MORETTIN ; BENOIT VILLARET DE CHAUVIGNY ; BRIGNOLO GINO ; BRIGNOLO GINO GIOVANNI ; BRIGNOLO GINO GIOVANNI ; BRIN OLO DZHINO DZHOVANNI ; CAMPODONICO FEDERICO ; CAMPODONICO FEDERICO ; CHAUVIGNY BENOIT VILLARET DE ; CAMPODONICO FEDERICO ; DALMAZIO PERRONE ; FEDERICO CAMPODONICO ; GINO GIOVANNI BRIGNOLO ; KAMPODONIKO FEDERIKO ; MORETTIN AMBRODZHO ; MORETTIN AMBROGIO ; MORETTIN ANBROGIO ; PERRONE DAL MATSIO ; PERRONE DALMAZIO ; VILLARET DE SHOVIN I BENUA ; VILLARET DE CHAUVIGNY BENOIT

Inventor(s): AMBROGIO ; VILLARET DE CHAUVIGNY ; PERRONE ; MORETTIN ; GINO GIOVANNI ; FEDERICO ; DALMAZIO ; CAMPODONICO ; BRIGNOLO ; BENOIT

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; JOHANSSON AND LANGLOIS LTDA; BLUMBACH ZINNGREBE PATENT U RECHTSANWALTE; MERGEL VOLKER; BLUMBACH ZINNGREBE; CARVAJAL Y ISABEL; CABINET BEAU DE LOMENIE; AKTEN OEZGUER

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
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International class
(IPC 8-9): B65D B65D1/02 B65D39/08 B65D39/16 B67B B67B1/06 C03B C03B9/16 C03B9/193 C03B9/32 C03B9/325 (Advanced/Invention);
B65D23/00 (Advanced/Non-invention);
B65D1/00 B65D1/02 B65D39/16 C03B9/00 C03B9/16 (Core/Invention);
B65D B67B C03B (Subclass/Invention)

International class
(IPC 1-7): B65D1/02

CPC: B65D39/16 C03B9/165 C03B9/325 B65D1/0207 B65D39/08 B65D1/0246 C03B9/1932

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Forward Citations: WO16089444, WO15169416, WO15169415, US9694532, US9440761, US9290401, US9156719, US2015298384, US2015203235, US2014000317, EP3190058, CN106628565, CN106458353, CN104163558,

Abstract:

Source: US2013270211A The present invention relates to a glass container with a cylindrical neck (1) suitable for plugging the container by means of a stopper inserted in said neck, said neck (1) comprises an internal thread (6) allowing for reversible plugging and unplugging of the container by screwing and unscrewing said stopper, wherein the internal thread (6) of the neck consists of at least two independent thread turns (7) allowing unplugging and plugging of the container by screwing and respectively unscrewing the stopper by rotating it over an angle of less than 180 degrees.

12) Family number: 32365737 (US2006065992A)

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Title: MONO AND MULTI-LAYER ARTICLES AND COMPRESSION METHODS OF MAKING THE SAME

Priority: JP20070508616 20050418 JP20070508622 20050418 US20040563021 20040416
 US20050108342 20050418 US20040621511P 20041022 US20040620160P 20041018
 US20040586399P 20040707 US20040575231P 20040528 US20040563021P 20040416
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 US20110299907 20111118 US20050643008P 20050111 US20050586399P 20050707

Family:

Publication number	Publication date	Application number	Application date
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<u>WO05102667 A3</u>	20060309	WO2005US13078	20050418
<u>WO05102668 A2</u>	20051103	WO2005US13150	20050418
<u>WO05102668 A3</u>	20051229	WO2005US13150	20050418

Probable Assignee: CONCENTRATE MFG CO OF IRELAND

Assignee(s):^(std): ADVANCED PLASTICS TECH LTD ; ADVANCED PLASTICS TECHNOLOGIES ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG S A ; FARHA SAID ; FARHA SAID K ; CONCENTRATE MFG CO OF IRELAND ; CONCENTRATE MFG CO IRELAND ; HUTCHINSON GERALD ; LEE ROBERT ; HUTCHINSON GERALD A ; LEE ROBERT A ; EHDVANSID PLASTIKS TEKNOLODZHI ; THE CONCENTRATE MFG CO IRELAND

Assignee(s): CONCENTRATE MANUFACTURING CO OF IRELAND ; HUTCHINSON SHARON ; PEPSICO INC ; THE CONCENTRATE MANUFACTURING COMPANY OF IRELAND ; CONCENTRATE MFG CO OF IRELAND20 PARLIAMENT STREETCORNER HOUSEHM 12HAMILTONBM ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG SA82 ROUTE D'ARLONL-1150GRAND-DUCHYLUXEMBOURGLU ; EHDVANSID PLASTIKS TEKNOLODZHIZ LAKSEMBERG SA ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG SA ; EHDVANSID PLASTIKS TEKNOLODZHIZ LAKSEMBERG S A ; ADVANCED PLASTICS TECHNOLOGIES LTD ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOUG S A ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOUG SA

Inventor(s):^(std): LEE ROBERT ; SAID HUTCHINSON GERALD LEE ROB ; FARHA SAID ; HUTCHINSON GERALD ; LEE ROBERT A ; HUTCHINSON GERALD A ; FARHA SAID K ; LI ROBERT ; KHATCHINSON DZHERAL D ; FARKHA SAID ; EE ROBERT A L

Inventor(s): KHATCHINSON DZHERAL'D ; GERALD HUTCHINSON ; FARHA SAIDUS ; HUTCHINSON GERALDUS ; HUTCHINSON GERALD LEE ROBERT FARHA SAID ; SAID FARHA ; ROBERT LEE ; LEE ROBERTGB

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; LANG MICHENER LLP; MCMILLAN LLP; POLYPATENT; KNOBBE MARTENS OLSON AND BEAR LLP; BANNER AND WITCOFF LTD

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 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class
(IPC 8-9): B29B11/08 B29B17/00 B29C37/00 B29C43/02 B29C43/14 B29C43/18 B29C43/20 B29C43/34 B29C44/12 B29C45/14 B29C45/16 B29C45/26 B29C49/00 B29C49/02 B29C49/04 B29C49/06 B29C49/08 B29C49/22 B32B1/02 B32B1/08 B32B27/04 B32B27/08 B32B27/32 B32B27/36 B32B5/18 B32B9/04 B65D1/00 B65D1/02 B65D1/40 B65D23/00 B65D23/08 B65D65/40 B65D90/02 B67D1/00 F16L11/04 (Advanced/Invention); B29B11/08 B29B11/10 B29C49/02 B29C49/04 B29C49/06 B29C49/22 B29L22/00 B32B1/02 B65D1/00 B65D65/40 (Advanced/Non-invention); B29C45/00 B29C49/00 B29C49/22 B65D1/00 B67D1/00 (Core/Invention)

International class
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B29C49/04

European class:

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US class:

215/12.1 215/12.100P 215/12.2 215/382 220/669 220/669S 264/255 264/255S 264/320
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Abstract:

Source: US2006065992A In preferred embodiments methods and apparatuses can produce articles that have formable material. The articles may be mono and multilayer. The articles can be formed by various methods.

13) Family number: 30059553 (US2001027154A)

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Title: SEPARABLE LAMINATED CONTAINER AND ASSOCIATED TECHNOLOGY

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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<u>WO9628353 A1</u>	19960919	WO1996JP00543	19960306

Probable Assignee: YOSHINO KOGYOSHO CO LTD

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Inventor(s): NOMOTO TSUGIO GOTO TAKAYUKI YONEYAMA MASASHI SHIBA ; NOMOTO TSUGIO GOTO TAKAYUKI KOMEYAMA SHOSHI ; NOMOTO TSUGIO GOTO TAKAYUKI YONEYAMA MASASHI... ; YONEYAMA ; SHIBANO ; NOMOTO TSUGIO

GOTO TAKAYUKI YONEYAMA MASASHI SHIBANO YOSHIO AKIYAMA YOSHIO ;
NOMOTO ; GOTO ; AKIYAMA

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; OLIFF AND BERRDIGE PLC

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI
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CN103221313, CN103003162, AU2013340152,

Abstract:

Source: US2001027154A A separable laminated container (A) of the present invention comprises an outer layer
(1) made of synthetic resin and having an air suction hole (10) and an inner layer (2) made of synthetic resin and

separably laminated on the inside of the outer layer, the inner layer having a portion previously separated from the outer layer just around the air suction hole. The air suction hole can be formed by driving a punch into the outer layer at a neck (4) of the separable laminated container from the outside, and punching just the outer layer leaving the inner layer behind. The portion of the inner layer previously separated from the outer layer may be left in the inwardly extended state. The inner layer is preferably made of synthetic resin having flexural modules of less than 10,000 kg/cm².

0) US2014147627A – SLIPPERY SURFACES WITH HIGH PRESSURE STABILITY,...

14) Family number: 51597679 (US2014147627A)

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Title: SLIPPERY SURFACES WITH HIGH PRESSURE STABILITY, OPTICAL TRANSPARENCY, AND SELF-HEALING CHARACTERISTICS

Priority: AU20120207206 20120119 AU20160200048 20160106 US20110434217P 20110119
 US20110466352P 20110322 JP20130550592T 20120119 AU20170239543 20171005
 US20110509488P 20110719 US20110538100P 20110922 US20110496883P 20110614
 US20110470973P 20110401 US20110529734P 20110831 US20120980856 20120119
 US20120980858 20120119 US20130140374 20131224 WO2012US21928 20120119
 WO2012US21929 20120119 US20140980856 20140211 US20130140391 20131224
 US20160134070 20160420

Family:

Publication number	Publication date	Application number	Application date
AU2012207205 AA	20120726	AU20120207205	20120119
AU2012207205 BB	20160317	AU20120207205	20120119
AU2012207205 CA	20160908	AU20120207205	20120119
AU2012207206 AA	20120726	AU20120207206	20120119
AU2012207206 BB	20151008	AU20120207206	20120119
AU20160200048 AA	20160128	AU20160200048	20160106
AU20160200048 BB	20170706	AU20160200048	20160106
AU2017239543 AA	20171026	AU20170239543	20171005
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CN103649240 B	20160914	CN201280012205	20120119
CN103703085 A	20140402	CN201280012210	20120119
CN103703085 B	20160928	CN201280012210	20120119
EP2665782 A2	20131127	EP20120703922	20120119
EP2665783 A2	20131127	EP20120705182	20120119
IN02543KN2013 A	20140411	IN2013KN02543	20130816
IN02544KN2013 A	20140411	IN2013KN02544	20130816
JP2014504519 T2	20140224	JP20130550592T	20120119
JP2014509959 T2	20140424	JP20130550591T	20120119
JP2017140405 A2	20170817	JP20170043866	20170308
KR20140004723 A	20140113	KR20137021610	20120119
KR20140019322 A	20140214	KR20137021611	20120119
US2014147627 AA	20140529	US20120980856	20120119
US2014187666 AA	20140703	US20120980858	20120119
US2014290731 AA	20141002	US20130140374	20131224
US2014290732 AA	20141002	US20130140391	20131224
US2017015835 AA	20170119	US20160134070	20160420
US9121306 BB	20150901	US20130140374	20131224
US9121307 BB	20150901	US20130140391	20131224
US9353646 BB	20160531	US20120980856	20120119
WO12100099 A2	20120726	WO2012US21928	20120119
WO12100099 A3	20121018	WO2012US21928	20120119
WO12100100 A2	20120726	WO2012US21929	20120119
WO12100100 A3	20121018	WO2012US21929	20120119

Probable Assignee: HARVARD COLLEGE

Assignee(s):^(std):

AIZENBERG JOANNA ; AIZENBERG MICHAEL ; HARVARD COLLEGE ; HATTON BENJAMIN ; INGBER DONALD ; SUPER MICHAEL ; INGBER DONALD ELLIOTT ; WONG TAK SING ; KANG SUNG HOON ; KIM PHILSEOK ; TANG KAM YAN

Assignee(s): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Inventor(s):^(std): AIZENBERG JOANNA ; AIZENBERG MICHAEL ; HATTON BENJAMIN ; INGBER DONALD ; INGBER DONALD ELLIOTT ; KANG SUNG HOON ; KIM PHIL SEOK ; KIM PHILSEOK ; SUPER MICHAEL ; TANG KAM YAN ; WONG TAK SING

Inventor(s): WONG TAK ; TANG KAM ; KANG SUNG

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; CAMENISCH ANDREW RICHARD; HIROE AND ASSOCIATES PATENT PROFESSIONAL CORP; WILMER CUTLER PICKERING HALE AND DORR LLP; SCOZZAFAVA MARY ROSE 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 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 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

International class
(IPC 8-9): A61L15/24 A61L15/34 A61L15/42 A61L15/46 A61L15/50 A61L27/28 A61L27/34 A61L27/50 A61L29/08 A61L29/14 A61L31/10 A61L31/14 A61L33/00 A61L33/06 B01L3/00 B05D3/00 B05D5/00 B05D5/08 B32B7/02 B32B7/04 B65D25/14 C08J7/04 C09D5/00 C09D5/16 C10M105/54 C10M105/56 F01D25/18 F15D1/02 F15D1/10 F28F13/18 F28F19/02 G02B1/14 H01L31/0236 (Advanced/Invention); B05D5/08 (Advanced/Non-invention)

CPC: B05D5/00 B05D3/002 H01L31/0236 F28F13/185 A61L15/34 A61L15/42 A61L15/46 A61L27/34 A61L27/50 A61L33/0094 A61L33/064 A61L2400/12 B05D5/083 C09D5/1656 C09D5/1681 C09D5/1693 F15D1/02 F15D1/10 C08L27/12 Y10T428/24355 Y10T428/24364 C09D5/00 C10M105/56 C10M105/54 B01L3/5027 F28F19/02 G02B1/14 B65D25/14 B64D15/00 B01D69/02 B01D2325/06 B01L2300/16 B63B59/04 C02F1/44 D06M13/00 E04B1/92 F01D25/02 F16L57/00 F28F2245/04 H01L31/02167 F01D25/18 A61L15/24 A61L27/28 C09D5/16

European class: A61L15/24 A61L15/34 A61L15/42 A61L15/46 A61L27/28 A61L27/34 A61L27/50 A61L33/00T A61L33/06B B05D5/08C C09D5/16H C09D5/16L C09D5/16R F15D1/02 F15D1/10 K61L400/12 L05D5/08C

US class: 1/1 136/256 427/299 427/301 428/141 428/142 523/113 524/546 524/577

[Classification Explorer](#)

Cited documents: WO9936490 A1, WO9317077 A1, WO11005200 A1, WO10065960 A2, WO10028752 A1, WO09048880 A1, WO07130734 A2, WO07046348 A1, WO06091235 A1, WO05121288 A1, WO03013827 A1, US7811666 BB, US7723405 BB, US7192993 BA, US7189934 BB, US6511753 BA, US5798409 A, US5624713 A, US5620778 A, US5476589 A, US5358719 A, US35350510 P, US3274007 A, US2011287987 AA, US2011283778 AA, US201113466352 P, US201113434217 P, US201113058611, US2011044553, US2009098299 AA, US2009078153 AA, US2007039832 AA, US2006153993 AA, US2006024504 AA, US2005164008 AA, US2004186211 AA, JP7242769 A2, JP62063219 A2, JP5240251 B2, JP5240251 A2, JP5229402 A2, JP4270649 A2, JP2010047890 A2, JP2009515604 T2, JP2008508181 T2, JP2005231084 A2, JP2004037764 A2, JP2003170540 A2, JP2000510353 T2, JP1170932 A2, EP1487590 B1, EP1487590 A2, EP0893164 A2, DE19818956 A1, CN101918621 A, CN101675156 A, CN101580753 A, CN101538395 A, CN101444777 A, CN101374607 A, CN101198542 A,

Forward Citations: WO17165411, WO17068378, WO17029624, WO16179588, WO16172561, WO16069785, WO16069674, WO16069239, WO16014946, WO15199791, WO15182383, WO15179410, WO15166191, WO15163189, WO15071122, WO15069820, WO15042118, WO15012358, WO15005030, WO14209441, WO14197667, WO14188883, WO14179283, WO14149465, WO14145586, WO14145528, WO14134498, WO14126010, WO14123217, WO14110511, WO14093221, WO14078867, WO14012078, WO14010534, WO13169994, WO13169994, WO13130118, WO13106588, WO13022467, WO13022467, US9764093, US9694965, US9670304, US9664935, US9664626, US9662450, US9655293, US9632085, US9630224, US9625075, US9593160, US9585757, US9572526, US9554968, US9545360, US9502325, US9498934, US9492578, US9458536, US9427679, US9385062, US9381528, US9373561, US9371173, US9309162, US9272095, US9254496, US9220831, US9156037, US9150631, US8940361, US8574704, US8535779, US2017190139, US2016122677, US2016061713, US2015309073, US2015239773, US2015153558, US2015144522, US2015143916, US2015129122, US2015125575, US2015052932, US2014360021, US2014234579, US2014144947,

US2014127516, US2014087173, US2014023852, US2013330501, US2013110222, US2013032316, RU2630911, KR20170016453, KR20170016452, KR20170008787, KR20160142386, KR101753676, JP6052641, JP6051278, JP5673905, JP5673870, JP2017039533, JP2015042481, JP2015005030, JP2014188883, FR3020669, EP3025852, EP2969258, EP2957519, EP2955120, EP2901987, EP2873630, EP2873630, EP2711417, CN105733385, CN105722734, CN105518082, CN105408103, CN105264323, CN105188967, CN105061804, CN104995103, CN104995103, CN104846508, CN104759019, CN104451811, CN104310302, CN104307582, CN104117833, CN104117833, AU2014294081,

Abstract:

Source: US2014147627A The present disclosure describes a strategy to create self-healing, slippery liquid-infused porous surfaces (SLIPS). Roughened (e.g., porous) surfaces can be utilized to lock in place a lubricating fluid, referred to herein as Liquid B to repel a wide range of materials, referred to herein as Object A (Solid A or Liquid A). SLIPS outperforms other conventional surfaces in its capability to repel various simple and complex liquids (water, hydrocarbons, crude oil and blood), maintain low-contact-angle hysteresis (<2.5 degrees), quickly restore liquid-repellency after physical damage (within 0.1–1 s), resist ice, microorganisms and insects adhesion, and function at high pressures (up to at least 690 atm). Some exemplary application where SLIPS will be useful include energy-efficient fluid handling and transportation, optical sensing, medicine, and as self-cleaning, and anti-fouling materials operating in extreme environments.

15) Family number: 47333751 (US2010264107A)

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Title: BOTTLE NECK WITH INTERNAL EMBOSSEMENTS AND METHOD MANUFACTURE

Priority: AU20090344840 20090917 AU20140202951 20140530 US20090427169 20090421
 US20120662901 20121029 EP20090736328 20090917 CN200980158896 20090917
 WO2009US57272 20090917 US20130059912 20131022 US20160156059 20160516

Family:

Publication number	Publication date	Application number	Application date
AR073329 AA	20101028	AR2009P103773	20090930
AR104612 AB	20170802	AR2016P101381	20160512
AR104634 AB	20170802	AR2016P101407	20160513
AR104648 AB	20170802	AR2016P101425	20160516
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AU2014202951 AA	20140619	AU20140202951	20140530
AU2014202951 BB	20160204	AU20140202951	20140530
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CL52571 B	20160601	CL20110002629	20111021
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CN102438908 B	20140226	CN200980158896	20090917
CN103754447 A	20140430	CN201410017452	20090917
CN103754447 B	20160406	CN201410017452	20090917
CO6450604 A2	20120531	CO20110146187	20111028
DE602009031321 D1	20150702	DE200960031321T	20090917
DOP2011000320 A	20111215	DO20110000320	20111020
ECSP11011458 A	20111230	EC2011SP11458	20111114
EP2421761 A1	20120229	EP20090736328	20090917
EP2421761 B1	20150520	EP20090736328	20090917
EP2891609 A1	20150708	EP20150156540	20090917
ES2538223 T3	20150618	ES20090736328T	20090917
HU025144 T2	20160128	HU20090736328T	20090917
KR20120027255 A	20120321	KR20117027679	20090917
KR20160065999 A	20160609	KR20167014078	20090917
MX2011011005 A1	20120127	MX20110011005	20090917
MY154579 A	20150630	MY20110004973	20090917
NZ595889 A	20140530	NZ20090595889	20090917
PE11122012 A1	20120817	PE20110001838	20090917
RU2011147123 A	20130527	RU20110147123	20090917
RU2522059 C2	20140710	RU20110147123	20090917
SG10201401642U A1	20140828	SG20141001642	20090917
SG175293 A1	20111128	SG20110077039	20090917
TH106797 A	20110323	TH20091005364	20091130
TW201038447 A	20101101	TW20090132051	20090923
TW201518064 A	20150516	TW20150102842	20090923
TWI481531 B	20150421	TW20090132051	20090923
TWI546180 B	20160821	TW20150102842	20090923
US2010264107 AA	20101021	US20090427169	20090421
US2013047851 AA	20130228	US20120662901	20121029

<u>US2014042672 AA</u>	20140213	US20130059912	20131022
<u>US2016257595 AA</u>	20160908	US20160156059	20160516
<u>US8333287 BB</u>	20121218	US20090427169	20090421
<u>US8591632 BB</u>	20131126	US20120662901	20121029
<u>US9339967 BB</u>	20160517	US20130059912	20131022
<u>US9370892 BB</u>	20160621	US20130059912	20131022
<u>VN14997 A1</u>	20160225	VN20110003136	20090917
<u>WO10123516 A1</u>	20101028	WO2009US57272	20090917
<u>ZA201107663 A</u>	20130130	ZA20110007663	20090917

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER

Assignee(s):^(std): BAILEY VINCENT J ; BECKER BRUCE A ; LONSWAY MICHAEL J ; OUEHNS BROKVEHJ GLASS KONTEJNER INK ; OWENS BROCKWAY GLASS CONTAINER ; OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): OWENS BROCKWAY GLASS CONTAINER INC US ; OWENS BROCKWAY GLASS CONTAINER INC PERRYSBURG

Inventor(s):^(std): BAILEY VINCENT ; BAILEY VINCENT J ; BECKER BRUCE ; BECKER BRUCE A ; LONSWAY MICHAEL ; LONSWAY MICHAEL J ; BEHJLI VINSENT DZH ; BEKKER BRJUS EH ; LONSVEJ MAJKL DZH

Inventor(s): LONSWAY ; BAILEY ; BRUCE A ; BRUCE A BECKER ; LONSWAY MICHAEL J BECKER BRUCE A BAILEY VINCENT J ; LONSWAY MICHAEL J TOLEDO ; LONSWAYN MICHAEL J ; MICHAEL J ; MICHAEL J LONSWAY ; VINCENT J ; VINCENT J BAILEY ; BECKER BRUCE A PERRYSBURG ; BAILEY VINCENT J PERRYSBURG ; BECKER

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON; HUMBERTO RUBIO CAMACHO; BLUMBACH ZINNGREBE PATENT U RECHTSANWAELE; MERGEL VOLKER; BLUMBACH ZINNGREBE; CARVAJAL Y ISABEL; DREW AND NAPIER LLC; OWENS ILLINOIS INC; CONG TY TNH LE AND LE; SMITH SUSAN L

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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): B01D19/00 B04B3/00 B21D51/26 B29C B29C49/02 B29C49/04 B65D B65D1/02 B65D23/00 B65D23/04 B65D47/06 C03B C03B9/00 C03B9/235 C03B9/325 C03B9/34 C03B9/347 (Advanced/Invention); B29C49/04 B65D1/02 C03B9/325 C03B9/34 (Core/Invention); B65D47/06 (Core/Non-invention); B29C B65D C03B (Subclass/Invention)

International class
(IPC 1-7): B29C 49/04 B29C49/04 B65D 1/02 B65D1/02 C03B 9/325 C03B 9/34 C03B9/325 C03B9/34

CPC: B65D1/023 B65D1/02 B04B3/00 B29C49/04 B65D23/04 C03B9/34 C03B9/325 B29C49/02

European class: B65D1/02D1 C03B9/325

US class: 1/1 215/40 215/40P 220/703 264/533 413/1 65/110 65/78 65/78S 65/79 65/79S 95/260

[Classification Explorer](#)

Cited documents: WO9212901 A1, WO10064749 A1, WO05120306 A1, WO04085257 A1, WO0158777 A1, USD406065 S1, USD36781 S1, USD155868 S1, US868914 A, US7798357 BB, US763973 A, US7063221 BB, US6405887 BA, US6216897 BA, US6102225 A, US5947310 A, US5687863, US5687862 A, US5607076 A, US4852751 A, US482682 A, US4740401 A, US4170622 A, US4105428 A, US406065 A, US3956441 A, US3944104 A, US3837535 A, US3792988 A, US36781 A, US3468648 A, US2609955 A, US2321314 A, US2064042 A, US2026304 A, US2012031915 AA, US2010270260 AA, US2009084799 AA, US2008290101 AA, US2007267422 AA, US2007125720 AA, US2006041 A, US2004182047 AA, US2003168372 AA, US2003019830 AA, US1832806 A, US1654365 A, US155868 A, US1024894 A, KR200255577 Y1, KR200255577 Y, KR200255577, KR100916631 B1, KR100916631, KR100906227 B1, KR100906227, JP60145918 A2, JP360145918, JP20078536, JP2007008536 A2, JP2004149163 A2, JP2001322161 A2,

GB2345480 A1, GB2274277 A1, FR920663 A, FR331391 A, FR2881421 A1, FR2795714 A1, FR2795714, FR1246454 A, EP2421761 A1, EP0909711 A2, EP0667300 B1, EP0667300 A1, EP0027780 B1, EP0027780 A1, DE2459469 A1,

DE202008004366 U1

DE13034 A, CN2743253, CN2303793, CN1398236 A,

Forward Citations: WO16089444, WO14176032, WO14123829, WO14123829, WO14092931, WO13180825, USD740119, USD724947, USD723923, USD707560, USD706635, USD704560, USD704064, USD704063, USD696115, USD658999, USD645354, US9783446, US9694328, US9682881, US9586848, US9499293, US9440761, US9334185, US9283526, US9156719, US9150331, US9067703, US8777029, US8550272, US2014217055, US2013299444, US2013082025, US2012031915, US2012012595, EP3241605, EP2891609, EP2824085, EP2601108, CN106458353, AU2013360197, AU2013267901,

Abstract:

Source: US2010264107A A longneck glass or metal bottle of one-piece integrally formed construction has a body with a closed base and a shoulder at an end of the body remote from the base, and a neck extending from the shoulder along an axis and terminating in a neck finish for attachment of a closure. The bottle neck includes at least one internal embossment for affecting flow of liquid from the body through the neck. In exemplary embodiments of the disclosure, the at least one internal embossment includes at least one internal annular rib or at least one internal rib coplanar with the neck axis or at least one internal spiral rib or at least one internal elliptical rib.

0) US4519232A – METHOD AND APPARATUS FOR NECKING CONTAINERS

16) Family number: 34574671 (US4519232A)

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Title: Method and apparatus for necking containers

Priority: AU19870076432 19870702 CA19880558205 19880205 GB19830033588 19831216
 GB19850021962 19850904 EP19870904482 19870702 CA19880617018 19880205
 US19820453232 19821227 US19850725945 19850422 US19850696322 19850130
 US19860915143 19861003 US19880205083 19880610 JP19840116735 19840608
 NZ19880223421 19880205 US19870011760 19870206 US19950430745 19950428
 US19920957629 19921006 US19910730015 19910712 US19900468706 19900123
 WO1987US01589 19870702

Family:

Publication number	Publication date	Application number	Application date
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AT141836 E	19960915	AT19870117739T	19870702
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DE3347208 A1	19840628	DE19833347208	19831227
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GB2163986 A1	19860312	GB19850021962	19850904
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Probable Assignee: REXAM BEVERAGE CAN CO

Assignee(s):^(std): AMERICAN NATIONAL CAN CO ; AMERICAN NAT CAN CO ; NAT CAN CORP ; REXAM BEVERAGE CAN CO

Assignee(s): NATIONAL CAN A CORP CORP ; NATIONAL CAN A DE CORP CORP ; AMES T WILLIAM ; CALEFFI ANTONIO ; NAGGERT DIETRICH K ; REXAM BEVERAGE CAN CO CHICAGO ; TRACZYK EDWARD S ; NATIONAL CAN CORP CHICAGO ILL US ; AMERIKAN NASHONARU KYAN CO ; AMERICAN NATIONAL CAN A CORP OF DE CORP ; AMERICAN NATIONAL CAN CO CHICAGO ILL US ; AMERICAN NATIONAL CAN CORP ; NATIONAL CAN CORP

Inventor(s):^(std): CALEFFI ANTONIO ; EIMUZU TEI UIRIAMU ; KARETSUFUI ANTONIO ; MARTIN SHULSKI MICHAEL ; AMES T WILLIAM ; AMES WILLIAM T ; NAGAATO DEITORITSUHI KEI ; NAGGERT DIETRICH K ; SHULSKI MICHAEL M ; SHULSKI MICHAEL MARTIN ; STANLEY TRACZYK EDWARD ; TORATSUIKU EDOWAADO ESU ; TRACZYK EDWARD S ; TRACZYK EDWARD STANLEY ; TRACZYK EDWARD ; NAGGERT DIETRICH ; AMES T

Inventor(s): CALEFFI ANTONIO I 37054 NOGARA IT ; TRACZYK EDWARD STANLEY LOCKPORT ILL ; WILLIAM T AMES ; TRACZYK EDWARD STANLEY LOCKPORT ILL US ; SHULSKI MICHAEL MARTIN NORTHFIELD ILL US ; T WILLIAM AMES ; SHULSKI MICHAEL MARTIN NORTHFIELD ILL ; NAME NOT GIVEN ; ANTONIO CALEFFI ; MICHAEL MARTIN SHULSKI ; CALEFFI ANTONIO 37054 NOGARA IT ; DIETRICH K NAGGERT ; EDWARD S TRACZYK ; EDWARD STANLEY TRACZYK

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OGILVY RENAULT LLP SENCRL SRL

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

International class
(IPC 8-9): B21D19/00 B21D51/26 B65D1/14 B65D1/16 B65D1/40 (Advanced/Invention);
B21D19/00 B21D51/26 B65D1/00 (Core/Invention)

International class
(IPC 1-7): B21B39/02 B21C3/00 B21D19/00 B21D19/08 B21D19/10 B21D31/00 B21D41/00 B21D41/04 B21D51/10 B21D51/16 B21D51/26 B65D1/14 B65D1/16 B65D1/26 B65D1/40 B65D7/42

CPC: Y10S72/715 Y10S220/906 B21D51/263 B21D51/2615 B21D51/2638

European class: B21D51/26B B21D51/26B3 B21D51/26B4

US class: 220/656 220/906 413/1 413/69 72/133 72/354 72/355.4 72/356 72/370 72/370.02 72/391 72/391.2 72/391.4 72/452 72/452.8 72/715

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Abstract:

Source: US4519232A A modular system for producing triple-necked open ended containers includes three substantially identical necking modules each having the same frame and identical rotatable turrets which have a plurality of identical necking stations around the periphery. Each necking station includes an annular necking die and a platform and punch which are cam-operated to move towards and away from each other and are maintained in engagement with the cams by pressurized fluid. Each necking station also has a container pressurizing means in the form of an annular chamber which acts as a holding chamber prior to transmitting the pressurized fluid into the container.

0) US2005022883A – FUEL CARTRIDGE WITH CONNECTING VALVE

17) Family number: 31495152 (US2005022883A)

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Title: FUEL CARTRIDGE WITH CONNECTING VALVE

Priority: CA20042530507 20040726 CA20042788565 20040726 CN200780002041 20070105
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 US20140471544 20140828

Family:

Publication number	Publication date	Application number	Application date
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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 YU ZA ZM ZW

International class
(IPC 8-9): B01J19/00 B01J4/02 B01J7/00 B01J7/02 B01J8/00 B01J8/02 B01J8/08 B23P19/10 B65B1/04 B65D25/42 B67D7/06 C01B3/00 C01B3/02 C01B3/06 C01B3/08 C01B3/32 C01B3/36 C01B6/00 C10B1/04 C10J1/207 C10J3/06 C10J3/20 C10J3/46 C10J3/54 C10J3/68 E03B1/00 F15D1/00 F16J15/06 F16K1/00 F16K15/00 F16K15/02 F16K15/04 F16K15/06 F16K15/14 F16K17/02 F16K17/04 F16K17/22 F16K17/30 F16K23/00 F16K31/126 F16K31/44 F16K47/02 F16K51/00 F16K7/00 F16K7/17 F16L F16L29/00 F16L29/04 F16L37/00 F16L37/28 F16L37/30 F16L37/32 F16L37/33 F16L37/34 F16L37/36 F16N5/02 F17C11/00 G05D16/00 G05D16/04 G05D16/06 G05D16/08 G05D7/00 H01M2/00 H01M2/06 H01M2/08 H01M2/12 H01M2/14 H01M8/00 H01M8/02 H01M8/04 H01M8/06 H01M8/10 H01M8/18 H01M8/22 (Advanced/Invention); B01J7/02 B01J8/00 B01J8/08 B65B1/04 C01B3/06 C01B3/32 F01L3/08 F16K15/00 F16K15/06 F16K47/02 F16K51/00 F16L29/04 F16L37/34 F17C11/00 H01M8/04

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C10J E03B F16L H01M (Subclass/Invention)

International class
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European class:

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Abstract:

Source: US2005022883A A shut-off valve or connecting valve capable of connecting a fuel supply to a fuel cell is disclosed. The valve comprises a first valve component and a second valve component. Each valve component has an outer housing and a biased slidable member disposed inside the housing forming an internal seal. During the connection process, the two valve components establish an inter-component seal. Afterward, in one suitable embodiment the slidable member moves inward and opens the internal seal in the valve component to establish a flow path. In another embodiment, the slidable member moves inward and exposes a first filler and the first filler abuts a second filler in the other valve component to establish a flow path. In other embodiments, at least one valve component is sized and dimensioned to limit access to the internal seal.

0) US2011056903A – PLASTICS CONTAINER

18) Family number: 42667640 (US2011056903A)

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Title: PLASTICS CONTAINER

Priority:

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: NAMPAK PLASTICS EUROPE LTD

Assignee(s):^(std): G2 DESIGN CONSULTANTS LTD ; GLOVER ANDREW ; NAMPAK PLASTICS EUROPE LTD ; NAMPAK PLASTICS EUROPE LTD

Assignee(s): NAMPAK PLASTICS EUROPE LTD NEWPORT PAGNELL ; G2 DESIGN CONSULTANTS LIMITED ; NAMPAK PLASTICS EUROPE LIMITED

Inventor(s):^(std): GLOVER ANDREW ; ANDREW GLOVER

Inventor(s): GLOVER ANDREW CHESHAM

Agent(s): GRIFFITH HACK; HILL AND SCHUMACHER; MCWILLIAMS DAVID JOHN; MCWILLIAMS DAVID

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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): B29C49/00 B29C49/42 B29C49/48 B29D22/00 B65D B65D1/00 B65D1/02 B65D1/44 B65D21/02 B65D23/10 B65D25/30 B65D85/80 (Advanced/Invention);
B29L31/46 (Advanced/Non-invention);
B65D1/02 B65D21/02 B65D23/10 B65D85/72 (Core/Invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): B65D1/02

CPC: B29C49/48 B29C49/04 B29C49/4802 B29C2049/4887 B29L2031/463 B65D2501/0081 B65D1/0223 B65D1/023 B65D23/10 B65D2501/0009 B65D2501/009 B65D1/02 B65D21/02 B65D21/0201 B65D21/0202 B29D22/003 B65D1/0207 B65D23/102 B65D85/80

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Forward Citations: US9446551, US8979524, US8668101, US8535599, EP3153530, EP2679507, EP2679507, CN103523312, CN103523312,

Abstract:

Source: US2011056903A A blow moulded container has a body portion defining a chamber for storing liquid and a neck portion extending from the body portion. The body portion defines a central longitudinal axis and said neck portion is coaxial therewith. The body portion defines an upper shoulder region of curved profile and the neck portion defines a circular cylindrical portion having side walls concentric with and parallel to said central longitudinal axis. The lower end of the cylindrical portion defines a closed loop and has a non-planar intersection with the shoulder region of the body portion.

19) Family number: 28238822 (US2002090473A)

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Title: MULTILAYER CONTAINERS AND PREFORMS HAVING BARRIER PROPERTIES
UTILIZING RECYCLED MATERIAL

Priority: AU19990011008 19981019 AU20000042261 20000410 AU20000042261 20000410
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class
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Abstract:

Source: US2002090473A Preferred embodiments relate to methods and apparatus for making articles made of polyester, preferably virgin polyethylene terephthalate (PET), having coated directly to at least one of the surfaces thereof one or more layers of recycled or post-consumer PET and one or more layers of a material with good gas-barrier characteristics, preferably silicon oxide. Preferably, the recycled PET layer comprises about 25 percent to about 50 percent of the entire material content. Preferably the articles take the form of preforms and the containers are blow-molded therefrom and the barrier layer is subsequently applied. The preferred barrier materials have a lower permeability to oxygen and carbon dioxide than PET. In addition, the neck of the preforms and bottles is at least partially in the crystalline state and the body is primarily in the amorphous or semi-crystalline state. This structure in a preform enables the preform to be easily blow molded by virtue of the amorphous material in the body, while being able to have dimensional stability in hot-fill applications.

0) US2007144999A – BOTTLE AND CLOSURE ASSEMBLY WITH IMPROVED LOCKI...

20) Family number: 30322055 (US2007144999A)

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Title: BOTTLE AND CLOSURE ASSEMBLY WITH IMPROVED LOCKING ELEMENTS
Priority: EP20040805927 20041203 GB20030029444 20031219 WO2004GB05099 20041203
Family:

Publication number	Publication date	Application number	Application date
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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
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CPC: B65D41/0421 B65D41/04 B65D41/28

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US class: 215/307 215/329 215/330 215/331 220/293 220/296 220/300

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Cited documents: WO9505322 A1, WO0304373, WO03004373 A1, US7113771 BB, US6954616 BB, US6227391 BA, US6109466 A, US4289248 A, US4090629 A, US4084717 A, US3435978 A, US2007036170 AA, US2006140147 AA, US2006116075 AA, US2005195841 AA, US2005056613 AA, US2005041650 AA, US2005030907 AA, US2005025182 AA, US2002163929 AA, US04289248, US03435978, JP6183449 A2, JP5943348 U, JP59043348 U1, JP59043348 u1, JP57139832 A2, JP55179150 U, JP55179150 U, JP54078172 A2, JP10258857 A2, JP10258857, GB2382071 A1, GB2369114 A1, GB2330356 A1, GB1369114 A, EP1401724 B1, EP0864505 A1, EP0665169 A1, EP00665169,

Forward Citations: WO17117648, WO13181491, WO12021086, WO11070326, WO10086609, WO09060207, WO07057706, USD741713, USD701460, US9731871, US9718588, US9499313, US9428292, US9126726, US8807360, US8708176, US8608009, US8556103, US8141793, US7802690, US2016340087, US2016016697, US2015321800, US2014360970, US2013248530, US2012298682, US2011226770, US2011024423, US2011011947, US2010162900, US2009242562, US2009127152, US2007090080, NL1036921, JP2011519330, JP2009526044, GB2532256, GB2476089, CN102040038, AU2013267306,

Abstract:

Source: US2007144999A A threaded container closure assembly, comprising: a container neck (10) having an opening; a—closure (12) for said neck, the closure having a base portion (22) and a skirt portion (24), a first screw thread on the neck said first screw thread comprising one or more first thread segments (16), and a second screw thread on an inner surface of the skirt of the closure, said second screw thread comprising one or more second thread segments (26); a first locking projection (44) on the container neck separate from the first thread segments (16) and a second locking projection (46) on the inner surface of the skirt of the closure separate from the second thread segments (26), said first and second locking projections being configured to resist unscrewing of the closure from the fully engaged position on the container neck after the closure has been secured or resecured on the container neck until a predetermined minimum opening torque is applied; wherein said first and second locking projections (44, 46) longitudinally overlap the first or the second thread segments when the closure is in the fully engaged position on the container neck.

0) US2002033374A – TAMPER EVIDENCING CLOSURE

21) Family number: 28185285 (US2002033374A)

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Title: Tamper evidencing closure

Priority: EP20030770468 20030924 KR20007000005U 20000522 US19970904878 19970801
 US19990323571 19990601 US20000653679 20000901 US20050250249 20051011
 US20080203992 20080904 WO2000US12283 20000505 WO1998US15527 19980723
 WO2003US30350 20030924 US20020266091 20021004 US20010955844 20010918
 US20010900505 20010705

Family:

Publication number	Publication date	Application number	Application date
AT361239 E	20070515	AT19980937158T	19980723
AU199885938 A1	19990222	AU19980085938	19980723
AU200048219 A1	20001218	AU20000048219	20000505
AU200048219 A5	20001218	AU20000048219	20000505
AU200191356 A1	20030123	AU20010091356	20011115
AU200191356 A5	20030123	AU20010091356	20011115
AU2003278956 AA	20040504	AU20030278956	20030924
AU2003278956 AH	20040504	AU20030278956	20030924
AU785404 B2	20070419	AU20010091356	20011115
CA2298700 AA	20000131	CA19982298700	19980723
CA2298700 C	20070522	CA19982298700	19980723
CA2501327 AA	20050404	CA20032501327	20030924
CA2501327 C	20110823	CA20032501327	20030924
CN1089711 C	20020828	CN19988007824	19980723
CN1275114 A	20001129	CN19988007824	19980723
CN1701028 A	20051123	CN20038025129	20030924
DE69837713 D1	20070614	DE19986037713	19980723
DE69837713 T2	20080110	DE19986037713T	19980723
EP1025015 A1	20000809	EP19980937158	19980723
EP1025015 A4	20050727	EP19980937158	19980723
EP1025015 B1	20070502	EP19980937158	19980723
EP1556280 A2	20050727	EP20030770468	20030924
EP1556280 A4	20090624	EP20030770468	20030924
EP2123569 A1	20091125	EP20090010762	20030924
KR200227370 Y1	20010615	KR20000014667U	20000524
MXPA04000110 A1	20040521	MX2004PA00110	20040107
MXPA05003566 A1	20050603	MX2005PA03566	20030924
US2002033374 AA	20020321	US20010900505	20010705
US2002066713 AA	20020606	US20010955844	20010918
US2003071007 AA	20030417	US20020266091	20021004
US2006060555 AA	20060323	US20050250249	20051011
US2009057261 AA	20090305	US20080203992	20080904
US5913437 A	19990622	US19970904878	19970801
US6112923 A	20000905	US19990323571	19990601
US6484896 BB	20021126	US20010900505	20010705
US6766916 BB	20040727	US20010955844	20010918
US6981602 BB	20060103	US20020266091	20021004
WO0073164 A1	20001207	WO2000US12283	20000505
WO03004369 A1	20030116	WO2002US19318	20020617

<u>WO04033312 A2</u>	20040422	WO2003US30350	20030924	
<u>WO04033312 A3</u>	20040826	WO2003US30350	20030924	
<u>WO9906295 A1</u>	19990211	WO1998US15527	19980723	
<u>ZA200109159 A</u>	20021106	ZA20010009159	20011106	
<u>ZA200205290 A</u>	20030410	ZA20020005290	20020702	

Probable Assignee: PORTOLA PACKAGING INC

Assignee(s):^(std): PORTOLA PACKAGING INC ; MA MIKE XIAOLI ; MA MIKE X ; ADAMS BRIAN M

Assignee(s): GENERAL ELECTRIC CAPITAL AGENT AS CORP ; GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGE ; HELLER FINANCIAL ; HELLER FINANCIAL INC ; WAYZATA INVESTMENT PARTNERS LLC ; MA XIAOLI ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGENT AS CORP ; WELLS FARGO FOOTHILL LLC AS AGENT ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDI ; WELLS FARGO FOOTHILL LLC AGENT AS ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDIN ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDINATED CREDITORS) ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDINATED CREDITORS

Inventor(s):^(std): MA MIKE X ; MA MIKE XIAOLI ADAMS BRIAN M ; MIKE X MA ; ADAMS BRIAN M ; BRIAN M ADAMS ; XIAOLI MA ; MA XIAOLI ; MA MIKE XIAOLI

Inventor(s): MA MIKE ; THE DESIGNATION OF THE INVENTOR HAS NOT YET BEEN FILED ; ADAMS BRIAN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; MCLEISH NICHOLAS ALISTAIR MAXWELL; DAVID J BREZNER DORSEY AND WHITNEY LLP; ADAM K SACHAROFF MUCH SHELST FREED DENENBERG AMENT AND RUBENSTEIN PC; DORSEY AND WHITNEY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 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

International class
(IPC 8-9): B28B13/06 B28B7/10 B29C41/42 B29C45/44 B65D1/00 B65D39/00 B65D41/00 B65D41/32 B65D41/34 B65D49/12 B65D50/00 B65D51/00 B65D51/16 B65D55/02 (Advanced/Invention); B65D41/34 (Advanced/Non-invention); B65D39/00 B65D41/34 B65D50/00 B65D55/02 (Core/Invention); B65D (Subclass/Invention)

International class
(IPC 1-7): B28B13/06 B28B7/10 B29C41/42 B65D0/0000 B65D1/00 B65D39/00 B65D41/00 B65D41/34 B65D50/00 B65D55/02

CPC: B65D41/3428 B29C43/42 B29C43/50 B29C45/4407 B29L2031/565 B65D41/3409 B65D2101/0046

European class: B29C43/42 B29C43/50 B29C45/44B B65D41/34A1 B65D41/34C1 L29C43/50 L29L31/56B L65D101/00A3D

US class: 215/252 215/254 215/256 215/258 215/258S 215/307 215/307S 215/329 215/344 215/344S 215/43 215/44 264/328.1 264/328.100S 264/334 264/334S

[Classification Explorer](#)

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Forward Citations:

WO15046889, WO13001454, WO13001454, WO11070326, WO09095297, WO08092716, WO08092716, WO07081656, WO07033722, WO04048220, WO03050033, WO03016161, WO03004369, USD763691, USD756776, USD756234, USD747201, USD746685, USD723919, USD664852, USD654362, USD619003, USD613162, USD606401, USD584619, USD584149, USD564879, USD553987, USD550084, USD538654, USD534802, USD531505, USD530205, USD529804, USD527631, USD525523, USD525125, USD518716, USD508204, USD507745, USD457433, USD449991, US9738409, US9676129, US9617045, US9522759, US9409680, US9403310, US9290306, US9205946, US8931243, US8926590, US8845256, US8807360, US8650839, US8567619, US8544666, US8529501, US8517194, US8499950, US8443999, US8413830, US8408208, US8348576, US8251236, US8231018, US8206377, US8100277, US8066139, US8061543, US8016142, US7891511, US7875000, US7798359, US7780024, US7766178, US7735664, US7721510, US7644902, US7637384, US7451898, US7445130, US7422169, US7413097, US7293396, US7261226, US7198170, US7059553, US7032772, US6974046, US6968966, US6968965, US6948630, US6877624, US6702161, US6659297, US6622460, US6571994, US6557714, US6382443, US2017057139, US2015166225, US2014263475, US2014190968, US2013206718, US2013038992, US2012111822, US2012067892, US2012018401, US2011309048, US2011151980, US2011100947, US2011024423, US2010314391, US2010308050, US2010230374, US2010215548, US2010102021, US2010089863, US2010084364, US2010032402, US2009302037, US2009200259, US2009200258, US2009020530, US2009013642, US2008218362, US2008210745, US2008173612, US2007257002, US2007251950, US2007232893, US2007173756, US2007158295, US2007125785, US2007125783, US2007034590, US2007000932, US2006266727, US2006208115, US2006163192, US2006151423, US2006070972, US2005252878, US2005199574, US2005167879, US2005167389, US2005145629, US2005092750, US2005072751, US2005040176, US2005000931, US2004251276, US2004168999, US2004159727, US2004155006, US2004094501, US2004045925, US2003192854, US2003150833, US2003116522, TWI498258, KR200462672, JP4932710, JP2008508151, JP2007501169, ITMI20111912, GB2476089, FR2911584, ES2321471, EP2586721, EP2223656, EP2123569, EP2088090, EP1953091, EP1660379, EP1445207, EP1288133, DE102010039036, CN103857599, CN103857599, AU2003302391, AU2002333387,

Abstract:

Source: US2002033374A A container including a neck and an opening, in combination with a tamper-evidencing closure including a top, a depending annular skirt and a tamper-evidencing band frangibly connected to the annular skirt. The container includes a first securing structure on the neck spaced from the opening. The tamper-evidencing band includes an inwardly turned retaining rim that extends at least partially upwardly. The retaining rim has a free edge for engagement with the locking surface as the closure is removed from the neck. The retaining rim includes a plurality of outwardly directed flutes spaced circumferentially thereon and a second securing structure located on the retaining rim between the flutes.

0) US2009236244A – CONTAINER CLOSURE HAVING MEANS FOR INTRODUCING ...

22) Family number: 33117757 (US2009236244A)

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Title: CONTAINER CLOSURE HAVING MEANS FOR INTRODUCING AND ADDITIVE INTO THE CONTENTS OF THE CONTAINER

Priority: GB20060008638 20060503 GB20060015991 20060811 WO2007GB50236 20070503
WO2007GB50483 20070810 WO2007GB50236 20060503 GB20070000732 20070115
WO2007GB50485 20070810

Family:

Publication number	Publication date	Application number	Application date
AT500159 E	20110315	AT20070733657T	20070503
AU2007246847 AA	20071115	AU20070246847	20070503
AU2007246847 BB	20130606	AU20070246847	20070503
CA2650331 AA	20081023	CA20072650331	20070503
CA2650331 C	20141104	CA20072650331	20070503
CN101479165 A	20090708	CN200780023837	20070503
CN101479165 B	20130925	CN200780023837	20070503
DE602007012853 D1	20110414	DE200760012853T	20070503
DK2013105 T3	20110620	DK20070733657T	20070503
EP2013105 A1	20090114	EP20070733657	20070503
EP2013105 B1	20110302	EP20070733657	20070503
EP2013105 B9	20120104	EP20070733657	20070503
EP2049410 A1	20090422	EP20070789371	20070810
ES2361946 T3	20110624	ES20070733657T	20070503
ES2361946 T4	20111007	ES20070733657T	20070503
GB200608638 A0	20060614	GB20060008638	20060503
GB200615991 A0	20060920	GB20060015991	20060811
GB200700732 A0	20070221	GB20070000732	20070115
GB200900477 A0	20090211	GB20090000477	20070810
GB2452676 A1	20090311	GB20090000477	20070810
GB2452676 B2	20110323	GB20090000477	20070810
IN09269DN2008 A	20090327	IN2008DN09269	20081105
JP2009535269 T2	20091001	JP20090508504T	20070503
JP5105553 B2	20121226	JP20090508504T	20070503
NZ572198 A	20110930	NZ20070572198	20070503
PT2013105 T	20110609	PT20070733657T	20070503
RU2008147140 A	20100610	RU20080147140	20070503
RU2445246 C2	20120320	RU20080147140	20070503
US2009236244 AA	20090924	US20070226887	20070503
US2009236244 AA	20090924	US20060226887	20060503
US2009236244 AA	20090924	US20070226887	20070503
US2009321286 AA	20091231	US20070309847	20070810
US7886899 BB	20110215	US20070226887	20070503
WO07129116 A1	20071115	WO2007GB50236	20070503
WO08017890 A1	20080214	WO2007GB50483	20070810
WO08017891 A1	20080214	WO2007GB50485	20070810
ZA200809240 A	20091125	ZA20080009240	20081028

Probable Assignee: GIZMO PACKAGING LTD

Assignee(s):^(std): BERNARD FRUTIN ; FRUTIN BERNARD ; GIZMO PACKAGING LTD ; ROCEP LUSOL HOLDINGS ; GIZMO PEHKEHDZHING LTD

Assignee(s): ROCEP LUSOL HOLDINGS LIMITED ; GIZMO PEHKEHDZHING LIMITED ; GIZMO PACKAGING LTDROCEP DRIVEROCEP BUSINESS PARKDEANPARKRENFREWPA4 8XY STRATHCLYDEGB ; ROCEP LUSOL HOLDINGS LTD ; FRUTIN BERNARD DEREK ; GIZMO PACKAGING LIMITED

Inventor(s):^(std): FRUTIN BERNARD ; DEREK FRUTIN BERNARD ; BERNARD FRUTIN ; FRUTIN BERNARD DEREK

Inventor(s): BERNARD DEREK FRUTIN ; FRUTIN BERNARD DEREKGB

Agent(s): WRAYS; TEITELBAUM AND MACLEAN; MURNANE GRAHAM JOHN; MURNANE GRAHAM JOHN ET AL; DRINKER BIDDLE AND REATH,ATTN: INTELLECTUAL PROPERTY GROUP; DRINKER BIDDLE AND REATH ATTN INTELLECTUAL PROPERTY GROUP; DRINKER BIDDLE AND REATH LLP; MURGITROYD COMPANY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): B23P11/00 B65D25/08 B65D41/00 B65D51/24 B65D51/28 B65D81/32 B67B3/20 B67B3/28 B67D7/74 (Advanced/Invention);
B23P11/00 B65D25/04 B65D41/00 B65D51/24 B67B3/00 (Core/Invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): B65D51/28

CPC: B65D51/2828 B65D51/24 B65D51/28 B65D51/2807 Y10T29/49826 B65D51/2892

European class: B65D51/24 B65D51/28 B65D51/28B1B B65D51/28B2D

US class: 206/219 206/221 215/227 215/227S 215/316 215/356 215/356S 215/364 215/364S 222/145.6 29/428 426/115 53/471 53/490 53/490S

[Classification Explorer](#)

Cited documents: WO9705039 A1, WO04033336 A1, WO0183313 A2, US7325676 BB, US6994211 BB, US6974024 BB, US6948642 BB, US6908011 BB, US6843368 BA, US6763939 BB, US6561232 BA, US4070249 A, US2004200740 AA, JP7223681 A2, JP62130051 U1, JP2008505025 T2, JP2006001581 A2, JP2003502235 T2, EP1270435 A2, DE29916436 U1, DE29916436,

DE102004017765 B3

Forward Citations: WO17174962, WO17067803, WO17065695, WO16128420, WO15177167, WO15169824, WO15169822, WO15169821, WO12175934, WO12175934, WO11149501, WO11133577, WO11133577, WO10029585, WO09086652, WO08117321, USD631351, US9751667, US9745118, US9718598, US9604765, US9221596, US9045269, US8943784, US8935904, US8857665, US8714808, US8584840, US8464883, US8443970, US8356711, US8123054, US2017233162, US2015167896, US2014305817, US2014166510, US2012211457, US2012067765, US2012017766, US2011174642, US2010044338, US2007280042, RU2620874, RU2605177, RU2502657, KR20140040217, KR101704380, JP2014520045, JP2011509221, EP2947026, EA024342, DE102016102247, DE102015118053, DE102014113392, DE102014113391, DE102014113202, DE102014107550, CN106536370, CN105966749, CN103648923, CN103648923, CN103619722, CN103260418, CN103260418, CN102971225, CN102871336, AU2012273785,

Abstract:

Source: US2009236244A A closure device with a fluid chamber containing an additive. The additive can be introduced and mixed into a liquid in the container by the closure device. The closure device includes a cap member having a fluid chamber and a housing having a plug member. The cap member is provided with a primary engagement means, which engages with a corresponding primary engagement means provided on the housing to allow the cap member to be lifted relative to the housing from a closed position in which the plug member closes an aperture in the fluid chamber to an open position in which the plug member is at least partially withdrawn from the aperture, thereby allowing the additive to pass from the fluid chamber to the liquid in the bottle. The closure device enables mixing of the additive and liquid in the bottle without opening the closure.

- **search:** SS2 (1) and PD<20140606 (Results 5174)
- List: SS2 1–50 ((1) and PD<20140606) (Results 5174)

0) US2002023409A – MEDICAMENT VIAL HAVING A HEAT-SEALABLE CAP, AND...

1) Family number: 30775440 (US2002023409A)

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Title: MEDICAMENT VIAL HAVING A HEAT-SEALABLE CAP, AND APPARATUS AND METHOD FOR FILLING THE VIAL

Priority:

AU20010247981	20010216	AU20030299041	20030903	AU20080212024	20080905
CA20032497664	20030903	AU20060202172	20060523	AU20120254948	20121122
JP20040537713	20030903	JP20050518849	20040128	JP20090211828	20030903
EP20030797876	20030903	CA20032638781	20030903	EP20040706030	20040128
IN2007DN07566	20071003	CN20018022607	20010216	US20020408068P	20020903
US20030655455	20030903	US20020408068	20020903	US20030442526P	20030124
US20030443526P	20030128	RU20050123708	20050726	US20030694364	20031027
US20030393966	20030321	US20010781846	20010212	US20000182139P	20000211
US20030484204P	20030630	US20030442526P	20030128	RU20090126823	20040128
RU20050123708	20040128	NZ20030584133	20030903	JP20130118175	20030903
WO2001US40134	20010216	WO2003US27545	20030903	WO2004US02339	20040128
US20060515162	20060901	US20070933272	20071031	US20100791629	20100601
US20100789565	20100528	WO2004US01965	20040123	US20110193662	20110729
US20110326177	20111214	US20110170613	20110628	US20090401567	20090310
US20070933300	20071031	US20070879485	20070716	US20060408704	20060421
US20040766172	20040128	US20090371386	20090213	US20070949087	20071203
US20100875440	20100903	US20140159836	20140121	US20150610016	20150130

Family:

Publication number	Publication date	Application number	Application date
AR040057 AA	20050316	AR2002P100449	20020211
AR044434 AB	20050914	AR2004P101791	20040524
AU2001247981 AA	20020828	AU20010247981	20010216
AU2001247981 BB	20060223	AU20010247981	20010216
AU2001247981 CA	20061109	AU20010247981	20010216
AU2001247981 CI	20061116	AU20010247981	20010216
AU2003299041 AA	20040408	AU20030299041	20030903
AU2003299041 BB	20080605	AU20030299041	20030903
AU20060202172 AA	20060615	AU20060202172	20060523
AU20060202172 BB	20100902	AU20060202172	20060523
AU2008212024 AA	20080925	AU20080212024	20080905
AU2008212024 BB	20121129	AU20080212024	20080905
AU2012254948 AA	20121213	AU20120254948	20121122
AU2012254948 BB	20161006	AU20120254948	20121122
AU2012254948 CA	20170323	AU20120254948	20121122
BRPI0116879 A	20040217	BR2001PI16879	20010216
BRPI0116879 B1	20120529	BR2001PI16879	20010216
BRPI0313992 A	20050802	BR2003PI13992	20030903
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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

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 CN101785578, AU2014233167, AU2006222941, AU2006222941, AU2003255458,

Abstract:

Source: US2002023409A A resealable cap for a medicament vial has a base portion formed of vulcanized rubber or like material known for providing a stable environment for the medicament contained within the vial, and a resealable portion overlying the base portion. The resealable portion is made of low-density polyethylene or like material, and can be punctured by a needle or like injection member for dispensing medicament into the vial. Prior to filling, the cap is assembled to the vial and the cap/vial assembly is sterilized. Then, a needle is inserted through the cap and medicament is introduced through the needle and into the vial. Upon withdrawal of the needle, the penetrated region of the cap is fused by laser or direct heat sealing to hermetically seal the needle hole in the cap.

0) US2015210438A – STOPPER FOR A BOTTLE AND SEALING ELEMENT FOR SA...

2) Family number: 55713926 (US2015210438A)

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Title: STOPPER FOR A BOTTLE AND SEALING ELEMENT FOR SAID STOPPER

Priority: AU20130298910 20130805 AU20170225149 20170908 EP20120179272 20120803
EP20130159277 20130314 EP20130003543 20130712 EP20130745588 20130805
WO2013EP02340 20130805 US20150419329 20150203 US20160288817 20161007

Family:	Publication number	Publication date	Application number	Application date	
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	AU2017225149 AA	20171005	AU20170225149	20170908	
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	WO14019713 A3	20151001	WO2013EP02340	20130805	
	ZA201501455 A	20170830	ZA20150001455	20150303	

Probable Assignee: PATENT ROOM P5 S A R L

Assignee(s):^(std): QUIDING NV ; PATENT ROOM P5 S A R L ; PATENT ROOM P5 S R L ; N V QUIDING

Assignee(s): PATENT ROOM P5 SARL ; HELMIG REINHARD JOSEF ; LANGELAAN PIETER HENDERIKUS ; LEDUN AUDREY ; MOLEN PETER JAN VAN D

Inventor(s):^(std): HELMIG REINHARD JOSEF ; LANGELAAN PIETER HENDERIKUS ; LEDUN AUDREY ; MOLEN PETER JAN VAN D

Agent(s): FB RICE; FB RICE PTY LTD; SMART AND BIGGAR; JOHANSSON AND LANGLOIS LTDA; KARL CHRISTOF; FORTEA JUAN JOSE; INABA YOSHIYUKI; KRAMER AMADO PC

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 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

International class [B65D](#) [B65D1/02](#) [B65D39/00](#) [B65D39/04](#) [B65D39/08](#) [B65D39/12](#) [B65D51/16](#) [B65D51/28](#)
(IPC 8-9): [B65D55/02](#) [B67B1/06](#) (Advanced/Invention)

CPC: B65D39/082 B67B1/06 B65D39/0047 B65D39/0064 B65D39/12 B65D2539/006
B65D39/0094 B65D55/02 B65D51/1616 B65D51/28

US class: 215/356 53/490

[Classification Explorer](#)

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Forward Citations: WO16180908, US9745110, US9718718, US9447313, EP3093253,

Abstract:

Source: US2015210438A The present invention relates to a stopper (1, 400) for a bottle designed for commercial bottling of a beverage or liquid food, preferably a wine bottle, and a sealing element (4, 440) for sealing the stopper (1, 400) in the mouth of the bottle, which is separate from the bottle. The stopper (1, 400) comprises a stopper part (2, 412) for introduction into a mouth of the bottle, and a head part (3, 413) for remaining outside the mouth of the bottle, the head part having a diameter that is larger than that of the stopper part (2, 412), wherein the stopper part (2, 412) comprises a an interlocking mechanism for engaging with a counterpart interlocking mechanism of the sealing element (4, 440). The sealing element (4, 440) is configured to be forced against an inner wall of the mouth, thereby being brought into a sealed position, upon introducing the stopper part (2, 412) into the mouth, in which sealed position the stopper (1, 400) is held on the bottle. The interlocking mechanisms are configured to permit bringing the sealing element into an unsealed position by an unsealing action which comprises rotating the stopper with respect to the bottle.

0) US2001000602A – SNAP–ON, SCREW–OFF CAP AND CONTAINER NECK

3) Family number: 30455912 (US2001000602A)

© PatBase

Title: Snap-on, screw-off cap and container neck

Priority:

CA19912047916	19910725	EP19910309273	19911009	GB19930011495	19930603
GB19950017979	19940310	GB19940004495	19921006	GB19940023499	19921006
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<u>WO9957033 A1</u>	19991111	WO1999US07951	19990412
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Probable Assignee: PORTOLA PACKAGING INC

Assignee(s):^(std): CAP SNAP CO ; PORTOLA PACKAGING INC

Assignee(s): WAYZATA INVESTMENT PARTNERS LLC ; WELLS FARGO FOOTHILL LLC AS AGENT ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDI ; WELLS FARGO FOOTHILL LLC AGENT AS ; HELLER FINANCIAL INC A DELAWARE BUSINESS TRUST ; LUCH DANIEL ; PORTOLA PACKAGING INC F K A CAP SNAP CO ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDIN ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDINATED CREDITORS) ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDINATED CREDITORS ; REPP RICHARD E ; CAP SNAP CO A CORP OF CALIFORNIA ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGE ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGENT AS CORP ; HELLER FINANCIAL ; HELLER FINANCIAL INC ; HELLER FINANCIAL INC A DE CORP

Inventor(s):^(std):

BIETZER STEVEN H ; CHENAULT RAWSON L ; DANIEL LUCH ; HENSON JOHNNY S ; KRISCHKE KURT ; KRISCHKE KURT A ; LUCH DANIEL ; ABSOLOM ANNA ; REPP RICHARD E ; RICHARD E REPP ; WEST WILLIAM R

Inventor(s): ANNA ABSOLOM ; STEVEN H BIETZER ; RAWSON L CHENAULT

Agent(s): SMART AND BIGGAR; DORSEY AND WHITNEY LLP

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

International class
(IPC 8-9): B29C65/00 B29C65/02 B65B7/28 B65D1/02 B65D39/00 B65D41/04 B65D41/17 B65D41/34 B65D41/46 B65D41/47 B65D41/48 B65D51/18 B65D51/20 B65D55/08 B65D77/20 B67B3/00 B67B3/20 (Advanced/Invention);
B65D77/20 (Advanced/Non-invention);
B29C65/00 B29C65/02 B65D1/02 B65D41/02 B65D41/04 B65D41/32 B65D41/34 B65D51/18 (Core/Invention);
B65D77/10 (Core/Non-invention);
B65D (Subclass/Invention)

International class
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 BE1016618, BE1016618, AU768786, AU2010202765,

Abstract:

Source: US2001000602A A tamper-evident, snap-on, screw-off closure is used with a specially shaped

container neck. The neck has double lead external threads and, below the threads, a conical wall having external ratchet teeth. The closure has an upper skirt having internal threads mating with the neck threads. A conical lower skirt is connected to the upper skirt by a plurality of frangible bridges. The lower skirt has internal ratchet teeth to mate with the neck ratchet teeth. The cap skirt threads are double pitch and slightly over 360 degrees in length. When the cap is applied to the neck it snaps on in two stages. The lower skirt has a tear tab which, when pulled, fractures the lower skirt on a vertical line. Continued pulling on the tab sequentially fractures the bridges.

0) US2010298738A – VESSEL, COATING, INSPECTION AND PROCESSING APPA...

4) Family number: 47617404 (US2010298738A)

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Title: VESSEL, COATING, INSPECTION AND PROCESSING APPARATUS

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Assignee(s): TEACHERS RETIREMENT SYSTEM OF ALABAMA ; N A ; SIO2 MEDICAL PRODUCTS INC AUBURN ; TOTAL INNOVATIVE PACKAGING INC ; SIO2 MEDICAL PRODUCTS INC2250 RILEY STREETAUBURNAL36832US ; SIOA ; CAPITOL MEDICAL DEVICES INC ; CSP TECHNOLOGIES INC960 WEST VETERANS BOULEVARDAUBURNAL36832US ; CAPITOL MEDICAL DEVICES INC960 WEST VETERANS BLVD.AUBURNAL36832US ; CAPITOL CUPS INC ; CAPITOL PLASTIC PRODUCTS LLC ; CLARK BECKY L ; ABRAMS ROBERT S MR ; BELFANCE JOHN ; CV HOLDINGS ; CYPRIUM INVESTORS IV LP ADMINISTRATIVE AGENT AS ; CV HOLDINGS LLC1030 RIVER FRONT CENTERAMSTERDAMNY12010US ; CV PARTNERS ; JONES JOSEPH A

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Designated states:

AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH
 CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE
 GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ
 LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ
 NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG
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International class
 (IPC 8-9):

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Abstract:

Source: US2010298738A Methods for processing a vessel, for example to provide a gas barrier or lubricity, are disclosed. First and second PECVD or other vessel processing stations or devices and a vessel holder comprising a vessel port are provided. An opening of the vessel can be seated on the vessel port. The interior surface of the seated vessel can be processed via the vessel port by the first and second processing stations or devices. Vessel barrier, lubricity and hydrophobic coatings and coated vessels, for example syringes and medical sample collection tubes are disclosed. A vessel processing system and vessel inspection apparatus and methods are also disclosed.

0) US2001013500A – APPARATUS FOR OPENING A BOTTLE SEALED WITH A CO...

5) Family number: 30071089 (US2001013500A)

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Title: Apparatus for opening a bottle sealed with a cork stopper

Priority: US19960746799 19961118 US19990273838 19990322 US20010760375 20010112
US20020306633 20021127 US20030443461 20030521 US20020433020P 20021213
US20020382410P 20020521 US20030735283 20031212 US20030443020P 20030127
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Family:	Publication number	Publication date	Application number	Application date
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	CA2434113 AA	20030711	CA20012434113	20011214
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI 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

International class
(IPC 8-9): [B65D1/02](#) [B65D39/00](#) [B65D39/16](#) [B67B7/06](#) (Advanced/Invention);
[B65D1/02](#) [B65D39/00](#) [B67B7/00](#) (Core/Invention)

International class
(IPC 1-7): [B65B7/28](#) [B65D1/02](#) [B65D39/00](#) [B65D39/16](#) [B65D41/62](#) [B67B7/06](#)

CPC: [B65D1/0246](#) [B65D39/16](#) [B67B7/06](#) [B65D39/0011](#)

European class: [B65D1/02D1B](#) [B65D39/00F1](#) [B65D39/16](#) [B67B7/06](#)

US class: 215/211 215/215 215/277 215/296 215/297 215/299 215/32 215/320 215/320S 215/364 215/44 215/44P 8/1.345 81/3.45 81/3.450S

[Classification Explorer](#)

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Forward Citations: WO9961363, WO14001859, WO13179104, WO11074998, WO11022307, WO11022307, WO10028243, WO07077489, WO07077489, WO06115467, WO06061858, WO06008095, WO03099671, USD474084, US9415904, US9346591, US8915167, US8807363, US8714382, US8672160, US7988019, US7314661, US7290463, US7134362, US6763961, US6568549, US6530295, US6510957, US2016116201, US2015158622, US2014352590, US2013153576, US2011036839, US2011036805, US2011017698, US2009065466, US2009051159, US2009045159, US2008203113, US2008035599, US2007131639, US2007107556, US2007071939, US2006261029, US2006243098, US2005247662, US2004031770, US2003129291, US2003084179, ITVR20130063, EP2588421, EP2467309, EP1716221, EA8461, EA008461, DE102006047040, CN105600102, CN104354976, CN102871547, CN102871547, CN102770349,

Abstract:

Source: US2001013500A An apparatus for removing a cork from a bottle in which an anchor is embedded in the cork and a cork-pulling sleeve is provided for engaging the anchor for removal of the cork. The cork-pulling sleeve includes inner threads that mate with external threads on the neck of the bottle, and rotation of the cork-pulling sleeve in relation to the bottle extracts the cork.

0) US2001003996A – TRANSFER SET FOR VIALS AND MEDICAL CONTAINERS

6) Family number: 28219762 (US2001003996A)

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Title: TRANSFER SET FOR VIALS AND MEDICAL CONTAINERS

Priority: EP20000121656 20001004 EP20030816475 20030124 JP20000544294 19990225
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<u>WO9953886 A1</u>	19991028	WO1999US04116	19990225

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Inventor(s):^(std): BINT STEPHEN ; HUBERT JANSEN ; JANSEN HUBERT ; JEAN CLAUDE THIBAUT ; STEPHEN BINT ; THIBAUT JEAN CLAUDE ; THIEBAULT JEAN CLAUDE ; NIERMANN VOLKER

Inventor(s): VOLKER NIERMANN

Agent(s): FB RICE; FB RICE PTY LTD; VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELTEN U RECHTSANWAELTEN MBB; VON KREISLER ALEK; VON KREISLER SELTING WERNER; WEBER THOMAS; TANI AND ABE PC; FORTUNATO DAVID M; DAVID M; HOWARD AND HOWARD ATTORNEYS PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU 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

International class
(IPC 8-9): A61J1/00 A61J1/03 A61J1/05 A61J1/06 A61J1/10 A61J1/14 A61J1/20 A61J3/00 B65B7/28 B65D39/04 B65D41/10 B65D41/32 B65D47/36 B65D51/00 B65D51/18 B65D51/22 B65D77/20 B65D83/00 B67B3/18 B67B5/03 B67B7/92 (Advanced/Invention);

A61J1/05 A61J1/06 A61J1/10 A61J1/14 A61J3/00 B65D51/18 (Advanced/Non-invention) ;
A61J1/00 A61J1/05 A61J1/10 A61J1/14 B65B7/28 B65D39/00 B65D41/02 B65D47/00
B65D51/00 B65D51/18 (Core/Invention)

International class
(IPC 1-7):

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B21D39/00 B23P11/00 B65B1/04 B65B3/04 B65B7/28 B65D39/00 B65D39/04 B65D41/10
B65D41/14 B65D41/28 B65D41/32 B65D47/04 B65D47/36 B65D51/00 B65D51/18
B65D51/22 B65D77/20 B65D83/00 B67B3/18 B67B5/03 B67B7/92 B67C3/00

CPC:

Y10S215/03 A61J1/2089 A61J1/10 A61J1/1475 A61J1/1412 A61J1/14 Y10T29/49915
Y10T29/49918 Y10T29/4987 Y10T29/49922 Y10T29/49927 A61J1/2093 A61M2207/00
A61J1/1406 A61J1/2096 B65B7/285 B65D51/002 A61J1/2037 A61J1/2041 A61J1/201
A61J1/1425 A61J1/2086 A61J1/2013 A61J1/2051

European class:

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B65B7/28F1 B65D51/00B K61J1/00C K61J1/05B2 K61J1/10 K61J1/14 K61J1/14P
K61J1/20A10B K61J1/20A2A K61J1/20A2B K61J1/20A4E K61J1/20A4F K61J1/20A6A
K61J1/20F K61M207/00

US class:

141/100 141/100S 141/25 141/27 141/329 141/330 215/247 215/249 215/251 215/258
215/274 215/307 215/324 215/325 215/327 215/355 215/DIG.003 215/DIG.3 215/DIG.3S
222/83 29/450 29/509 29/509S 29/511 29/511P 29/513 29/516 29/516S 53/410 604/403
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Abstract:

Source: US2001003996A A transfer set assembly for transferring fluids between a first container, such as a conventional medical vial, having a sealed open end and a second container such as a conventional IV infusion bag. The transfer set includes a collar having a proximate tubular end portion for securement to the container, a needle cannula and holder assembly, which is telescopically received in a distal tubular portion of the collar, and a closure including a tubular body portion having an open proximate end which is telescopically received over the needle cannula and holder assembly and the distal tubular portion of the collar, a closed distal end portion and an inner tubular portion which is integral with the closed distal end. The inner tubular portion includes a free end having spiral camming surfaces which mate with spiral camping surfaces on the inside surface of the tubular distal portion of the needle cannula holder. The tubular body portion of the closure includes lateral slots which receive projections on the collar and contiguous camming surface which extends toward the proximate open end of the closure. Rotation of the closure relative to the collar first drives the mating spiral camming surfaces of the closure and holder together, thereby driving the needle cannula and holder assembly axially to pierce the seal of the container. Continued rotation of the closure drives the projections on the collar against the contiguous angled camming surface, driving the closure from the collar and providing access to the needle cannula for transfer of fluids to a second container, such as an IV infusion bag.

7) Family number: 32382571 (US2005016129A)

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Title: PLUG REPLACING DEVICE AND PLUG REPLACING METHOD

Priority: JP20020149117 20020523 JP20030064146 20030310 JP20030145574 20030523
 US20030493815 20030523 NZ20030536670 20030523 NZ20030536671 20030523
 US20050125519 20050510 US20040493815 20040428 US20060349878 20060208
 US20060493815 20060425 WO2003JP06491 20030523 WO2003JP06490 20030523
 US20060639014 20061214

Family:

Publication number	Publication date	Application number	Application date
AT365144 E	20070715	AT20030733049T	20030523
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AU2003241754 AA	20031212	AU20030241754	20030523
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CN1602281 A	20050330	CN20038001737	20030523
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NZ569114 A	20090925	NZ20030569114	20030523

<u>NZ569225 A</u>	20091030	NZ20030569225	20030523
<u>US2005016129 AA</u>	20050127	US20040493815	20040428
<u>US2005204704 AA</u>	20050922	US20050125519	20050510
<u>US2005230414 AA</u>	20051020	US20040514059	20041109
<u>US2006191242 AA</u>	20060831	US20060349878	20060208
<u>US2007090082 AA</u>	20070426	US20060639014	20061214
<u>US7032364 BB</u>	20060425	US20040493815	20040428
<u>US7162851 BB</u>	20070116	US20050125519	20050510
<u>US7287670 BB</u>	20071030	US20040514059	20041109
<u>US7299601 BB</u>	20071127	US20060349878	20060208
<u>WO03099701 A1</u>	20031204	WO2003JP06490	20030523
<u>WO03099704 A1</u>	20031204	WO2003JP06491	20030523

Probable Assignee: EIJI YOSHIDA C O EVERYDAYWINE

Assignee(s):^(std): ISHIMATSU TATSURO ; YAHAGI KEIICHI ; MATSUNAGA HIROYUKI ; OTAKE SATOSHI ; MATSUMOTO HIROKI ; NAGAO KAGENORI ; KUDO SATOMI ; KAWAGUCHI ERI ; NAKAYAMA IKUO ANDREAS ; OGINO YUTA ; NAKAJIMA SYOTARO ; NAKAYAMA IKUO A ; YOSHIDA EIJI ; YOSHIDA YUSUKE ; EIJI YOSHIDA ; EIJI YOSHIDA C O EVERYDAYWINE

Assignee(s): EIJI YOSHIDA C O EVERYDAYWINE CO ; EIJI YOSHIDA C O EVERYDAYWINE CO LTD

Inventor(s):^(std): YUTA OGINO ; YUSUKE YOSHIDA ; TATSURO ISHIMATSU ; SYOTARO NAKAJIMA ; SATOSHI OTAKE ; IKUO ANDREAS NAKAYAMA ; HIROKI MATSUMOTO ; YOSHIDA YUSUKE ; YOSHIDA EIJI ; YAHAGI KEIICHI ; SATOMI KUDO ; OTAKE SATOSHI ; OTAKE MASARU ; OGINO YUTO ; OGINO YUTA ; NAKAYAMA YUKIO ANDREAS ; NAKAYAMA IKUO ANDREAS ; NAKAYAMA IKUO A ; NAKAJIMA SYOTARO ; NAKAJIMA SHOTARO ; NAGAO KAGENORI ; MATSUNAGA HIROYUKI ; MATSUMOTO HIROKI ; KUDO TOMOMI ; KUDO SATOMI ; KEIICHI YAHAGI ; KAWAGUCHI ERI ; KAGENORI NAGAO ; ISHIMATSU TATSURO ; HIROYUKI MATSUNAGA ; ERI KAWAGUCHI ; EIJI YOSHIDA ; HIROYUKI YOSHIDA EIJI YAHAGI K

Inventor(s): NAKAYAMA IKUO ; YOSHIDA EIJI YAHAGI KEIICHI MATSUNAGA HIROYUKI

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MARKS AND CLERK; DUANE MORRIS LLP IP DEPARTMENT; DUANE MORRIS LLP; DUANE MORRIS LLP, IP DEPARTMENT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI 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

International class
(IPC 8-9): B65B31/00 B65B31/02 B65B31/04 B65B7/28 B65D39/00 B65D51/16 B67B1/00 B67B1/04 B67B1/06 B67B3/24 B67B7/04 B67B7/06 B67B7/18 B67B7/44 B67D1/14 B67D3/00 B67D7/08 B67D7/80 F16D11/00 G01F11/02 G01F11/32 G01F15/18 (Advanced/Invention); B67B1/06 B67B7/06 B67D1/00 B67D1/04 B67D3/00 (Advanced/Non-invention); B67B1/00 B67B7/00 B67D1/00 B67D3/00 B67D7/08 B67D7/80 G01F11/00 G01F11/02 G01F15/00 (Core/Invention)

International class
(IPC 1-7): B65B31/02 B65B31/04 B65B7/28 B67B1/04 B67B1/06 B67B3/24 B67B7/04 B67B7/06 B67B7/44 B67D1/14 B67D3/00 F16D11/00 G01F11/00

CPC: B67D3/0003 B67D2001/0481 B67D2001/0814 G01F11/028 G01F11/32 G01F15/18 B65D39/0052 B67B1/00 B67B1/045 B67B7/04 B67B7/0411 B67B7/0441

European class: B65D39/00G B67B1/00 B67B1/04B B67B7/04 B67B7/04D B67B7/04F6 B67D3/00B B67D3/00G G01F11/02B8D G01F11/32 G01F15/18 L67D1/04G2 L67D1/08A32B

US class: 215/315 215/355 215/355S 215/364 215/364S 222/1 222/129 222/146.6 222/1P 222/399 222/481.5 222/61 53/109 53/264 53/319 53/319S 53/328 53/381.1 53/381.100S 53/381.4 53/403 53/432 53/432P 53/468 53/478 53/485 53/485S 53/489 53/492 53/492S 53/51 53/510 53/510P 53/510S 53/79 53/86

[Classification Explorer](#)

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US6026867 A, US5996620 A, US5848736 A, US5802812 A, US5697526 A, US5458165 A, US5347889 A, US5299408 A, US5228601 A, US5038548 A, US5012703 A, US4938387 A, US4911314 A, US4763803 A, US4706847 A, US4655029 A, US4555371 A, US4475576 A, US4467846 A, US4374464 A, US4281779 A, US4005807 A, US3699740 A, US3221946 A, US3220695 A, US2265676, US2002070234 AA, US1842226 A, US1483119 A, JP8244885 A2, JP62106827 A2, JP60183390 A2, JP56151700 A2, JP4502298 T2, JP4502298, JP4502298, JP4132094 A2, JP4087988 A2, JP40013155 B1, JP40013155 B1, JP40013155 A2, JP3067415 U, JP3067415 U, JP3067415 B4, JP3067415 B2, JP3067415, JP3028335 U, JP3028335, JP2507385 Y2, JP2507385 Y2, JP2507385 B2, JP2507385, JP2507385, JP2001354206 A2, JP2001354206, JP2001122397 A2, JP2001122397, JP2001058700 A2, JP1150600 U1, JP1150600, JP11009986, JP10245099 A2, GB343328 A, GB2322851 A1, FR2650816 A1, FR2616767 A1, FR2601962 A1, DE4107567 A1, DE3928852 A1,

Forward Citations: WO16144503, WO15001243, WO14155314, WO12158349, WO10005552, WO10005552, WO09068054, WO09068054, WO08149710, WO08118130, US9790071, US9714857, US9656847, US9340403, US9168202, US8987331, US8978546, US8814000, US8789716, US8636179, US8464910, US8434642, US8394334, US8348097, US8162176, US7543978, US7454883, US2016367083, US2016052763, US2016003659, US2015259186, US2014242241, US2014183227, US2013277396, US2012186201, US2011204093, US2010276453, US2010213219, US2010155419, US2010151415, US2009277929, US2009218603, US2009064407, US2008223812, US2008219092, US2007277482, US2007181601, US2007169434, US2007084820, TWI583600, KR100846670, KR100723931, ITMI20121875, FR3007999, FR2997932, FR2994172, EP2727878, CN105358241, CN105358241, CN103596475, CN102582873, CN102582873, CN102009753, AU2007361754,

Abstract:

Source: US2005016129A A stopper change device (10) includes an airtight chamber body (21) detachably mountable on a head of a bottle, a gas supply port (19) for supplying N gas to the chamber body, an air vent valve (57) for discharging air from the chamber body, a first supporting structure (28) movable upward and downward for supporting a corkscrew, and a second supporting structure (34) movable upward and downward for containing a substitute stopper. The first and second supporting structures are mutually position changeable, and one of them is selectively placed above an opening of the bottle. When the first supporting structure (28) is placed above the opening, a bottle stopper can be pulled in N gas atmosphere. On the other hand, when the second supporting structure (34) is placed above the opening, the substitute stopper is mountable on the head of the bottle in N gas atmosphere. By changing the bottle stopper with the substitute stopper using this device, entering of air in the bottle as a cause of deterioration in a quality can be prevented.

0) US5213225A – CONTAINER AND CLOSURE

8) Family number: 13261905 (US5213225A)

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Title: CONTAINER AND CLOSURE

Priority:

CA19912043552	19910530	CA19912051256	19910912	GB19900012041	19900530
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GB19920009374	19920430	GB19920009420	19920430	US19920956033	19921002
GB19920010194	19920512	US19910706891	19910529	US19910769198	19910930
US19910796946	19911122	US19920835290	19920213	US19950477903	19950607
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WO1992GB01255	19920710				

Family:

Publication number	Publication date	Application number	Application date
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AT161501 E	19980115	AT19920915179T	19920710
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Probable Assignee: BEESON AND SONS LTD

Assignee(s):^(std): BEESON AND SONS LTD ; BISAN END SANZ LIMITED ; BEESON AND SONS LIMITED COMPAN

Assignee(s): BEESON AND SONS LIMITED COMPANHIA DE REINO UNIDO ; BEESON AND SONS LILIMITED ; BEESON AND SONS LIMITED ; BISAN EHND SANS LIMITED ; BEESON AND SONS LTD RICKMANSWORTH HERTFORDSHIRE GB ; BISAN EHND SANZ LIMITED ; KING WITNEY MILNER ; KING ROGER MILNER ; OFFLEY RODNEY GEORGE ; POWELL ROGER EDWIN

Inventor(s):^(std): CROSS ; KING ROGER ; KING ROGER M ; KING ROGER MILNER ; KING WITNEY M ; KING WITNEY MILNER ; OFFLEY RODNEY GEORGE ; OFFLEY RODNEY ; OFFLEY RODNEY G ; OFFLEY RODNEY GEORGE ; POWELL ROGER ; POWELL ROGER E ; POWELL ROGER EDWIN ; RODNEY GEORGE OFFLEY ; RODNI DZHORDZH OFFLEJ ; RODZHER EDVIN PAUELL ; RODZHER MILNER KING ; ROGER EDWIN POWELL ; ROGER MILNER KING

Inventor(s): UITNI MILNER KING ; WITNEY MILNER KING ; WITNEY MILNER KING ; RODZHER MILNER KING[GB] ; RODZHER EHDVIN PAUEHLL[GB] ; RODNI DZHORDZH OFFLEJ[GB] ; ROGER MILNER KING ; POWELL ROGER EDWIN MUNDFOORD NORFOLK IP26 5HJ GB ; RODNEY GEORGE OFFLEY ; OFFLEY RODNEY GEORGE MOUNT SORREL LEICESTERSHIRE LE12 7EA GB ; KING WITNEY MILNER LATIMER BUCKS HP5 1UL GB ; MILNER KING ROGER ; KING ROGER MILNER LATIMER BUCKS HP5 1UL GB

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; REINHOLD COHN AND PARTNERS

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN SU TD TG US

International class
(IPC 8-9): [B29C49/06](#) [B65D1/02](#) [B65D1/20](#) [B65D23/06](#) [B65D25/16](#) [B65D39/00](#) [B65D41/04](#) [B65D41/34](#) [B65D41/48](#) [B65D50/00](#) [B65D50/04](#) [B65D51/20](#) [B65D51/24](#) [B65D55/02](#) [B65D55/06](#) (Advanced/Invention);
[B29C49/06](#) [B65D41/34](#) (Advanced/Non-invention);
[B29C49/06](#) [B65D1/00](#) [B65D1/02](#) [B65D23/00](#) [B65D25/14](#) [B65D39/00](#) [B65D41/04](#) [B65D41/32](#) [B65D41/34](#) [B65D50/00](#) [B65D51/18](#) [B65D51/24](#) [B65D55/02](#) (Core/Invention)

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European class: [B65D1/02](#) [B65D1/02D1](#) [B65D23/06](#) [B65D25/16](#) [B65D41/04B1](#) [B65D41/04B2](#) [B65D41/04E](#) [B65D41/04F](#) [B65D41/34D1](#) [B65D41/48](#) [B65D50/04B](#) [B65D51/20](#) [B65D51/24B](#) [B65D55/06D](#) [L65D101/00A3](#) [L65D251/00Y2D](#) [L65D251/00Y6M](#) [L65D501/02Y9](#)

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Abstract:

Source: US5213225A A container neck (14) and a container closure comprises a first thread (15) on one of the neck and the closure, a complementary second thread on the other of the neck and the closure such that the closure is moveable from fully disengaged from the neck to fully closed by turning the closure relative to the neck by less than 360 DEG, at least one stop formation (17,18) carried by said one of the neck (14) and the closure, and stop means on said other of the neck and the closure engageable with the stop formation or at least one of the stop formations to hold the closure in a closed position on the neck The arrangement of the or each stop formation (17,18), the stop means and the threads is such that the stop means is rotated past the stop formation or at least one of the stop formations (17,18) without engagement therewith when the closure is screwed on to the neck, engagement of the stop means with the stop formation or at least one of the stop formations commencing only when the closed positioned is neared.

0) US2001011661A – RECHARGEABLE DISPENSERS

9) Family number: 28717141 (US2001011661A)

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Title: Rechargeable dispensers

Priority: AU19950032005 19950725 AU19960065962 19960725 EP20030077637 19960607
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Family:

Publication number	Publication date	Application number	Application date
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<u>WO9903778 A1</u>	19990128	WO1998US14548	19980720

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OFFICES OF WILLIAM L KLIMA PC

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE
DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR
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RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class
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B67D3/00 (Core/Invention)

International class
(IPC 1-7): B05B11/12 B05B11/00 B05B7/04 B05B7/26 B05B9/03 B05B9/043 B29C49/02 B29C49/04
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B67D5/40 B67D5/52 B67D5/56 B67D5/60

CPC: B05B11/00 B05B11/3057 Y10T428/13 B05B11/0081 B05B11/0056 B05B11/0083
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B29C2793/009 B29K2023/06 B29K2023/12 B29K2027/06 B29K2067/00 B29L2031/7158
B65D1/023 B65D1/20 B29C49/04

European class: B05B11/00 B05B11/00B11C B05B11/00B11C2 B05B11/00B13 B05B11/00B17
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US class: 222/129 222/13 222/130 222/136 222/325 222/383.1 222/383.100S 222/82 222/83.5
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Forward Citations: WO9739831, WO9640583, WO17156438, WO17075024, WO17051178, WO17046719,
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 CN102369148, CN102320425, CN102320425, AU718754, AU2003262109,

Abstract:

Source: US2001011661A Rechargeable dispensers, in particular spray bottle dispensers including at least one chemical reservoir for recharging the spray bottle dispenser. Preferably, a plurality of separate chemical reservoirs containing chemical concentrate are provided within the spray bottle dispenser to fully contain any inadvertent spillage of chemicals, and to insure a high degree of safety against accidental spills, and/or accidental ingestion by children.

0) US2013270211A – GLASS CONTAINER WITH INTERNALLY THREADED NECK

10) Family number: 50072701 (US2013270211A)

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Title: GLASS CONTAINER WITH INTERNALLY THREADED NECK

Priority: EP20110727645 20110530 EP20110728580 20110530 IT2010MI01085 20100616
FR20100054201 20100531 US20130701279 20130628 US20150836170 20150826
WO2011EP02659 20110530 WO2011EP02664 20110530

Family:

Publication number	Publication date	Application number	Application date
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AU2011260662 AA	20111208	AU20110260662	20110530
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<u>RU2564293 C2</u>	20150927	RU20120157088	20110530
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<u>TR201705950 T4</u>	20170522	TR20170005950T	20110530
<u>UA108239 C2</u>	20150410	UA20120105156	20110530
<u>UA110937 C2</u>	20160310	UA20120014880	20110530
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<u>US2013299444 AA</u>	20131114	US20110701289	20110530
<u>US2015360803 AA</u>	20151217	US20150836170	20150826
<u>US9156719 BB</u>	20151013	US20110701279	20110530
<u>US9440761 BB</u>	20160913	US20110701289	20110530
<u>WO11151047 A2</u>	20111208	WO2011EP02659	20110530
<u>WO11151047 A3</u>	20120126	WO2011EP02659	20110530
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<u>ZA201208818 A</u>	20140129	ZA20120008818	20110530
<u>ZA201208819 A</u>	20140129	ZA20120008819	20110530

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s):^(std): BRIGNOLO GINO GIOVANNI ; BRIGNOLO GINO GIOVANNI ; CAMPODONICO FEDERICO ; CAMPODONICO FEDERICO ; O I MFG ITALY S P A ; MORETTIN ANBROGIO ; OUEHNS BROKVEHJ GLASS KONTEJNER INK ; OWENS BROCKWAY GLASS CONTAINER INC ; OWENS BROCKWAY GLASS CONTAINER ; PERRONE DALMAZIO ; VILLARET DE CHAUVIGNY BENOIT ; OI EUROP SARL ; MORETTIN ANBROGIO

Assignee(s): O I MANUFACTURING ITALY S P A ; OWENS BROCKWAY GLASS CONTAINER INC PERRYSBURG ; O I MFG ITALY SPA ; OI EUROPE SARL

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Inventor(s): AMBROGIO ; VILLARET DE CHAUVIGNY ; PERRONE ; MORETTIN ; GINO GIOVANNI ; FEDERICO ; DALMAZIO ; CAMPODONICO ; BRIGNOLO ; BENOIT

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; JOHANSSON AND LANGLOIS LTDA; BLUMBACH ZINNGREBE PATENT U RECHTSANWALTE; MERGEL VOLKER; BLUMBACH ZINNGREBE; CARVAJAL Y ISABEL; CABINET BEAU DE LOMENIE; AKTEN OEZGUER

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
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International class
(IPC 8-9): B65D B65D1/02 B65D39/08 B65D39/16 B67B B67B1/06 C03B C03B9/16 C03B9/193 C03B9/32 C03B9/325 (Advanced/Invention);
B65D23/00 (Advanced/Non-invention);
B65D1/00 B65D1/02 B65D39/16 C03B9/00 C03B9/16 (Core/Invention);
B65D B67B C03B (Subclass/Invention)

International class
(IPC 1-7): B65D1/02

CPC: B65D39/16 C03B9/165 C03B9/325 B65D1/0207 B65D39/08 B65D1/0246 C03B9/1932

European class: B65D1/02D1B B65D39/16 C03B9/16B C03B9/325

US class: 1/1 215/44 65/226 65/76

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Abstract:

Source: US2013270211A The present invention relates to a glass container with a cylindrical neck (1) suitable for plugging the container by means of a stopper inserted in said neck, said neck (1) comprises an internal thread (6) allowing for reversible plugging and unplugging of the container by screwing and unscrewing said stopper, wherein the internal thread (6) of the neck consists of at least two independent thread turns (7) allowing unplugging and plugging of the container by screwing and respectively unscrewing the stopper by rotating it over an angle of less than 180 degrees.

11) Family number: 32365737 (US2006065992A)

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Title: MONO AND MULTI-LAYER ARTICLES AND COMPRESSION METHODS OF MAKING THE SAME

Priority: JP20070508616 20050418 JP20070508622 20050418 US20040563021 20040416
 US20050108342 20050418 US20040621511P 20041022 US20040620160P 20041018
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Family:

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<u>WO05102668 A3</u>	20051229	WO2005US13150	20050418

Probable Assignee: CONCENTRATE MFG CO OF IRELAND

Assignee(s):^(std): ADVANCED PLASTICS TECH LTD ; ADVANCED PLASTICS TECHNOLOGIES ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG S A ; FARHA SAID ; FARHA SAID K ; CONCENTRATE MFG CO OF IRELAND ; CONCENTRATE MFG CO IRELAND ; HUTCHINSON GERALD ; LEE ROBERT ; HUTCHINSON GERALD A ; LEE ROBERT A ; EHDVANSID PLASTIKS TEKNOLODZHI ; THE CONCENTRATE MFG CO IRELAND

Assignee(s): CONCENTRATE MANUFACTURING CO OF IRELAND ; HUTCHINSON SHARON ; PEPSICO INC ; THE CONCENTRATE MANUFACTURING COMPANY OF IRELAND ; CONCENTRATE MFG CO OF IRELAND20 PARLIAMENT STREETCORNER HOUSEHM 12HAMILTONBM ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG SA82 ROUTE D'ARLONL-1150GRAND-DUCHYLUXEMBOURGLU ; EHDVANSID PLASTIKS TEKNOLODZHIZ LAKSEMBERG SA ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG SA ; EHDVANSID PLASTIKS TEKNOLODZHIZ LAKSEMBERG S A ; ADVANCED PLASTICS TECHNOLOGIES LTD ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOUG S A ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOUG SA

Inventor(s):^(std): LEE ROBERT ; SAID HUTCHINSON GERALD LEE ROB ; FARHA SAID ; HUTCHINSON GERALD ; LEE ROBERT A ; HUTCHINSON GERALD A ; FARHA SAID K ; LI ROBERT ; KHATCHINSON DZHERAL D ; FARKHA SAID ; EE ROBERT A L

Inventor(s): KHATCHINSON DZHERAL'D ; GERALD HUTCHINSON ; FARHA SAIDUS ; HUTCHINSON GERALDUS ; HUTCHINSON GERALD LEE ROBERT FARHA SAID ; SAID FARHA ; ROBERT LEE ; LEE ROBERTGB

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; LANG MICHENER LLP; MCMILLAN LLP; POLYPATENT; KNOBBE MARTENS OLSON AND BEAR LLP; BANNER AND WITCOFF LTD

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 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class
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European class:

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US class:

215/12.1 215/12.100P 215/12.2 215/382 220/669 220/669S 264/255 264/255S 264/320
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Abstract:

Source: US2006065992A In preferred embodiments methods and apparatuses can produce articles that have formable material. The articles may be mono and multilayer. The articles can be formed by various methods.

12) Family number: 30059553 (US2001027154A)

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Title: SEPARABLE LAMINATED CONTAINER AND ASSOCIATED TECHNOLOGY

Priority:

AU19960048892	19960306	AU20000012513	20000120	AU20020027752	20020327
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Family:

Publication number	Publication date	Application number	Application date
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<u>US7055719 BB</u>	20060606	US20030728957	20031208
<u>WO9628353 A1</u>	19960919	WO1996JP00543	19960306

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Inventor(s): NOMOTO TSUGIO GOTO TAKAYUKI YONEYAMA MASASHI SHIBA ; NOMOTO TSUGIO GOTO TAKAYUKI KOMEYAMA SHOSHI ; NOMOTO TSUGIO GOTO TAKAYUKI YONEYAMA MASASHI... ; YONEYAMA ; SHIBANO ; NOMOTO TSUGIO

GOTO TAKAYUKI YONEYAMA MASASHI SHIBANO YOSHIO AKIYAMA YOSHIO ;
NOMOTO ; GOTO ; AKIYAMA

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; OLIFF AND BERRDIGE PLC

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

International class
(IPC 8-9): B05B11/00 B29C49/00 B29C49/04 B29C49/22 B29C49/42 B29C65/74 B32B1/02
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B65D83/62 B65D83/76 G01F11/02 (Advanced/Invention);
B05B11/00 B29C49/04 B65D1/02 (Advanced/Non-invention);
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CN103221313, CN103003162, AU2013340152,

Abstract:

Source: US2001027154A A separable laminated container (A) of the present invention comprises an outer layer
(1) made of synthetic resin and having an air suction hole (10) and an inner layer (2) made of synthetic resin and

separably laminated on the inside of the outer layer, the inner layer having a portion previously separated from the outer layer just around the air suction hole. The air suction hole can be formed by driving a punch into the outer layer at a neck (4) of the separable laminated container from the outside, and punching just the outer layer leaving the inner layer behind. The portion of the inner layer previously separated from the outer layer may be left in the inwardly extended state. The inner layer is preferably made of synthetic resin having flexural modulus of less than 10,000 kg/cm².

0) US2014147627A – SLIPPERY SURFACES WITH HIGH PRESSURE STABILITY,...

13) Family number: 51597679 (US2014147627A)

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Title: SLIPPERY SURFACES WITH HIGH PRESSURE STABILITY, OPTICAL TRANSPARENCY, AND SELF-HEALING CHARACTERISTICS

Priority: AU20120207206 20120119 AU20160200048 20160106 US20110434217P 20110119
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 US20110509488P 20110719 US20110538100P 20110922 US20110496883P 20110614
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: HARVARD COLLEGE

Assignee(s):^(std):

AIZENBERG JOANNA ; AIZENBERG MICHAEL ; HARVARD COLLEGE ; HATTON BENJAMIN ; INGBER DONALD ; SUPER MICHAEL ; INGBER DONALD ELLIOTT ; WONG TAK SING ; KANG SUNG HOON ; KIM PHILSEOK ; TANG KAM YAN

Assignee(s): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Inventor(s):^(std): AIZENBERG JOANNA ; AIZENBERG MICHAEL ; HATTON BENJAMIN ; INGBER DONALD ; INGBER DONALD ELLIOTT ; KANG SUNG HOON ; KIM PHIL SEOK ; KIM PHILSEOK ; SUPER MICHAEL ; TANG KAM YAN ; WONG TAK SING

Inventor(s): WONG TAK ; TANG KAM ; KANG SUNG

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; CAMENISCH ANDREW RICHARD; HIROE AND ASSOCIATES PATENT PROFESSIONAL CORP; WILMER CUTLER PICKERING HALE AND DORR LLP; SCOZZAFAVA MARY ROSE 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 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 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

International class
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CPC: B05D5/00 B05D3/002 H01L31/0236 F28F13/185 A61L15/34 A61L15/42 A61L15/46 A61L27/34 A61L27/50 A61L33/0094 A61L33/064 A61L2400/12 B05D5/083 C09D5/1656 C09D5/1681 C09D5/1693 F15D1/02 F15D1/10 C08L27/12 Y10T428/24355 Y10T428/24364 C09D5/00 C10M105/56 C10M105/54 B01L3/5027 F28F19/02 G02B1/14 B65D25/14 B64D15/00 B01D69/02 B01D2325/06 B01L2300/16 B63B59/04 C02F1/44 D06M13/00 E04B1/92 F01D25/02 F16L57/00 F28F2245/04 H01L31/02167 F01D25/18 A61L15/24 A61L27/28 C09D5/16

European class: A61L15/24 A61L15/34 A61L15/42 A61L15/46 A61L27/28 A61L27/34 A61L27/50 A61L33/00T A61L33/06B B05D5/08C C09D5/16H C09D5/16L C09D5/16R F15D1/02 F15D1/10 K61L400/12 L05D5/08C

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US2014127516, US2014087173, US2014023852, US2013330501, US2013110222, US2013032316, RU2630911, KR20170016453, KR20170016452, KR20170008787, KR20160142386, KR101753676, JP6052641, JP6051278, JP5673905, JP5673870, JP2017039533, JP2015042481, JP2015005030, JP2014188883, FR3020669, EP3025852, EP2969258, EP2957519, EP2955120, EP2901987, EP2873630, EP2873630, EP2711417, CN105733385, CN105722734, CN105518082, CN105408103, CN105264323, CN105188967, CN105061804, CN104995103, CN104995103, CN104846508, CN104759019, CN104451811, CN104310302, CN104307582, CN104117833, CN104117833, AU2014294081,

Abstract:

Source: US2014147627A The present disclosure describes a strategy to create self-healing, slippery liquid-infused porous surfaces (SLIPS). Roughened (e.g., porous) surfaces can be utilized to lock in place a lubricating fluid, referred to herein as Liquid B to repel a wide range of materials, referred to herein as Object A (Solid A or Liquid A). SLIPS outperforms other conventional surfaces in its capability to repel various simple and complex liquids (water, hydrocarbons, crude oil and blood), maintain low-contact-angle hysteresis (<2.5 degrees), quickly restore liquid-repellency after physical damage (within 0.1–1 s), resist ice, microorganisms and insects adhesion, and function at high pressures (up to at least 690 atm). Some exemplary application where SLIPS will be useful include energy-efficient fluid handling and transportation, optical sensing, medicine, and as self-cleaning, and anti-fouling materials operating in extreme environments.

14) Family number: 47333751 (US2010264107A)

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Title: BOTTLE NECK WITH INTERNAL EMBOSSEMENTS AND METHOD MANUFACTURE

Priority: AU20090344840 20090917 AU20140202951 20140530 US20090427169 20090421
 US20120662901 20121029 EP20090736328 20090917 CN200980158896 20090917
 WO2009US57272 20090917 US20130059912 20131022 US20160156059 20160516

Family:

Publication number	Publication date	Application number	Application date
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AR104612 AB	20170802	AR2016P101381	20160512
AR104634 AB	20170802	AR2016P101407	20160513
AR104648 AB	20170802	AR2016P101425	20160516
AU2009344840 AA	20101028	AU20090344840	20090917
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CL2011002629 A1	20120409	CL20110002629	20111021
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DOP2011000320 A	20111215	DO20110000320	20111020
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WO10123516 A1	20101028	WO2009US57272	20090917
ZA201107663 A	20130130	ZA20110007663	20090917

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER

Assignee(s):^(std): BAILEY VINCENT J ; BECKER BRUCE A ; LONSWAY MICHAEL J ; OUEHNS BROKVEHJ GLASS KONTEJNER INK ; OWENS BROCKWAY GLASS CONTAINER ; OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): OWENS BROCKWAY GLASS CONTAINER INC US ; OWENS BROCKWAY GLASS CONTAINER INC PERRYSBURG

Inventor(s):^(std): BAILEY VINCENT ; BAILEY VINCENT J ; BECKER BRUCE ; BECKER BRUCE A ; LONSWAY MICHAEL ; LONSWAY MICHAEL J ; BEHJLI VINSENT DZH ; BEKKER BRJUS EH ; LONSVEJ MAJKL DZH

Inventor(s): LONSWAY ; BAILEY ; BRUCE A ; BRUCE A BECKER ; LONSWAY MICHAEL J BECKER BRUCE A BAILEY VINCENT J ; LONSWAY MICHAEL J TOLEDO ; LONSWAYN MICHAEL J ; MICHAEL J ; MICHAEL J LONSWAY ; VINCENT J ; VINCENT J BAILEY ; BECKER BRUCE A PERRYSBURG ; BAILEY VINCENT J PERRYSBURG ; BECKER

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON; HUMBERTO RUBIO CAMACHO; BLUMBACH ZINNGREBE PATENT U RECHTSANWALTE; MERGEL VOLKER; BLUMBACH ZINNGREBE; CARVAJAL Y ISABEL; DREW AND NAPIER LLC; OWENS ILLINOIS INC; CONG TY TNH LE AND LE; SMITH SUSAN L

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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): [B01D19/00](#) [B04B3/00](#) [B21D51/26](#) [B29C](#) [B29C49/02](#) [B29C49/04](#) [B65D](#) [B65D1/02](#) [B65D23/00](#) [B65D23/04](#) [B65D47/06](#) [C03B](#) [C03B9/00](#) [C03B9/235](#) [C03B9/325](#) [C03B9/34](#) [C03B9/347](#) (Advanced/Invention); [B29C49/04](#) [B65D1/02](#) [C03B9/325](#) [C03B9/34](#) (Core/Invention); [B65D47/06](#) (Core/Non-invention); [B29C](#) [B65D](#) [C03B](#) (Subclass/Invention)

International class
(IPC 1-7): [B29C 49/04](#) [B29C49/04](#) [B65D 1/02](#) [B65D1/02](#) [C03B 9/325](#) [C03B 9/34](#) [C03B9/325](#) [C03B9/34](#)

CPC: [B65D1/023](#) [B65D1/02](#) [B04B3/00](#) [B29C49/04](#) [B65D23/04](#) [C03B9/34](#) [C03B9/325](#) [B29C49/02](#)

European class: [B65D1/02D1](#) [C03B9/325](#)

US class: [1/1](#) [215/40](#) [215/40P](#) [220/703](#) [264/533](#) [413/1](#) [65/110](#) [65/78](#) [65/78S](#) [65/79](#) [65/79S](#) [95/260](#)

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Forward Citations: WO16089444, WO14176032, WO14123829, WO14123829, WO14092931, WO13180825, USD740119, USD724947, USD723923, USD707560, USD706635, USD704560, USD704064, USD704063, USD696115, USD658999, USD645354, US9783446, US9694328, US9682881, US9586848, US9499293, US9440761, US9334185, US9283526, US9156719, US9150331, US9067703, US8777029, US8550272, US2014217055, US2013299444, US2013082025, US2012031915, US2012012595, EP3241605, EP2891609, EP2824085, EP2601108, CN106458353, AU2013360197, AU2013267901,

Abstract:

Source: US2010264107A A longneck glass or metal bottle of one-piece integrally formed construction has a body with a closed base and a shoulder at an end of the body remote from the base, and a neck extending from the shoulder along an axis and terminating in a neck finish for attachment of a closure. The bottle neck includes at least one internal embossment for affecting flow of liquid from the body through the neck. In exemplary embodiments of the disclosure, the at least one internal embossment includes at least one internal annular rib or at least one internal rib coplanar with the neck axis or at least one internal spiral rib or at least one internal elliptical rib.

0) US4519232A – METHOD AND APPARATUS FOR NECKING CONTAINERS

15) Family number: 34574671 (US4519232A)

© PatBase

Title: Method and apparatus for necking containers

Priority: AU19870076432 19870702 CA19880558205 19880205 GB19830033588 19831216
 GB19850021962 19850904 EP19870904482 19870702 CA19880617018 19880205
 US19820453232 19821227 US19850725945 19850422 US19850696322 19850130
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Family:

Publication number	Publication date	Application number	Application date
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<u>US5497900 A</u>	19960312	US19950430745	19950428	
<u>WO8805700 A1</u>	19880811	WO1987US01589	19870702	

Probable Assignee: REXAM BEVERAGE CAN CO

Assignee(s):^(std): AMERICAN NATIONAL CAN CO ; AMERICAN NAT CAN CO ; NAT CAN CORP ; REXAM BEVERAGE CAN CO

Assignee(s): NATIONAL CAN A CORP CORP ; NATIONAL CAN A DE CORP CORP ; AMES T WILLIAM ; CALEFFI ANTONIO ; NAGGERT DIETRICH K ; REXAM BEVERAGE CAN CO CHICAGO ; TRACZYK EDWARD S ; NATIONAL CAN CORP CHICAGO ILL US ; AMERIKAN NASHONARU KYAN CO ; AMERICAN NATIONAL CAN A CORP OF DE CORP ; AMERICAN NATIONAL CAN CO CHICAGO ILL US ; AMERICAN NATIONAL CAN CORP ; NATIONAL CAN CORP

Inventor(s):^(std): CALEFFI ANTONIO ; EIMUZU TEI UIRIAMU ; KARETSUFUI ANTONIO ; MARTIN SHULSKI MICHAEL ; AMES T WILLIAM ; AMES WILLIAM T ; NAGAATO DEITORITSUHI KEI ; NAGGERT DIETRICH K ; SHULSKI MICHAEL M ; SHULSKI MICHAEL MARTIN ; STANLEY TRACZYK EDWARD ; TORATSUIKU EDOWAADO ESU ; TRACZYK EDWARD S ; TRACZYK EDWARD STANLEY ; TRACZYK EDWARD ; NAGGERT DIETRICH ; AMES T

Inventor(s): CALEFFI ANTONIO I 37054 NOGARA IT ; TRACZYK EDWARD STANLEY LOCKPORT ILL ; WILLIAM T AMES ; TRACZYK EDWARD STANLEY LOCKPORT ILL US ; SHULSKI MICHAEL MARTIN NORTHFIELD ILL US ; T WILLIAM AMES ; SHULSKI MICHAEL MARTIN NORTHFIELD ILL ; NAME NOT GIVEN ; ANTONIO CALEFFI ; MICHAEL MARTIN SHULSKI ; CALEFFI ANTONIO 37054 NOGARA IT ; DIETRICH K NAGGERT ; EDWARD S TRACZYK ; EDWARD STANLEY TRACZYK

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OGILVY RENAULT LLP SENCRL SRL

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

International class
(IPC 8-9): B21D19/00 B21D51/26 B65D1/14 B65D1/16 B65D1/40 (Advanced/Invention);
B21D19/00 B21D51/26 B65D1/00 (Core/Invention)

International class
(IPC 1-7): B21B39/02 B21C3/00 B21D19/00 B21D19/08 B21D19/10 B21D31/00 B21D41/00 B21D41/04 B21D51/10 B21D51/16 B21D51/26 B65D1/14 B65D1/16 B65D1/26 B65D1/40 B65D7/42

CPC: Y10S72/715 Y10S220/906 B21D51/263 B21D51/2615 B21D51/2638

European class: B21D51/26B B21D51/26B3 B21D51/26B4

US class: 220/656 220/906 413/1 413/69 72/133 72/354 72/355.4 72/356 72/370 72/370.02 72/391 72/391.2 72/391.4 72/452 72/452.8 72/715

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Abstract:

Source: US4519232A A modular system for producing triple-necked open ended containers includes three substantially identical necking modules each having the same frame and identical rotatable turrets which have a plurality of identical necking stations around the periphery. Each necking station includes an annular necking die and a platform and punch which are cam-operated to move towards and away from each other and are maintained in engagement with the cams by pressurized fluid. Each necking station also has a container pressurizing means in the form of an annular chamber which acts as a holding chamber prior to transmitting the pressurized fluid into the container.

0) US2005022883A – FUEL CARTRIDGE WITH CONNECTING VALVE

16) Family number: 31495152 (US2005022883A)

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Title: FUEL CARTRIDGE WITH CONNECTING VALVE

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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 YU ZA ZM ZW

International class
(IPC 8-9): B01J19/00 B01J4/02 B01J7/00 B01J7/02 B01J8/00 B01J8/02 B01J8/08 B23P19/10 B65B1/04 B65D25/42 B67D7/06 C01B3/00 C01B3/02 C01B3/06 C01B3/08 C01B3/32 C01B3/36 C01B6/00 C10B1/04 C10J1/207 C10J3/06 C10J3/20 C10J3/46 C10J3/54 C10J3/68 E03B1/00 F15D1/00 F16J15/06 F16K1/00 F16K15/00 F16K15/02 F16K15/04 F16K15/06 F16K15/14 F16K17/02 F16K17/04 F16K17/22 F16K17/30 F16K23/00 F16K31/126 F16K31/44 F16K47/02 F16K51/00 F16K7/00 F16K7/17 F16L F16L29/00 F16L29/04 F16L37/00 F16L37/28 F16L37/30 F16L37/32 F16L37/33 F16L37/34 F16L37/36 F16N5/02 F17C11/00 G05D16/00 G05D16/04 G05D16/06 G05D16/08 G05D7/00 H01M2/00 H01M2/06 H01M2/08 H01M2/12 H01M2/14 H01M8/00 H01M8/02 H01M8/04 H01M8/06 H01M8/10 H01M8/18 H01M8/22 (Advanced/Invention); B01J7/02 B01J8/00 B01J8/08 B65B1/04 C01B3/06 C01B3/32 F01L3/08 F16K15/00 F16K15/06 F16K47/02 F16K51/00 F16L29/04 F16L37/34 F17C11/00 H01M8/04

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Abstract:

Source: US2005022883A A shut-off valve or connecting valve capable of connecting a fuel supply to a fuel cell is disclosed. The valve comprises a first valve component and a second valve component. Each valve component has an outer housing and a biased slidable member disposed inside the housing forming an internal seal. During the connection process, the two valve components establish an inter-component seal. Afterward, in one suitable embodiment the slidable member moves inward and opens the internal seal in the valve component to establish a flow path. In another embodiment, the slidable member moves inward and exposes a first filler and the first filler abuts a second filler in the other valve component to establish a flow path. In other embodiments, at least one valve component is sized and dimensioned to limit access to the internal seal.

0) US2011056903A – PLASTICS CONTAINER

17) Family number: 42667640 (US2011056903A)

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Title: PLASTICS CONTAINER

Priority: AU20090305200 20091012 AU20140200122 20140109 CA20092725228 20091012
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: NAMPAK PLASTICS EUROPE LTD

Assignee(s):^(std): G2 DESIGN CONSULTANTS LTD ; GLOVER ANDREW ; NAMPAK PLASTICS EUROPE LTD ; NAMPAK PLASTICS EUROPE LTD

Assignee(s): NAMPAK PLASTICS EUROPE LTD NEWPORT PAGNELL ; G2 DESIGN CONSULTANTS LIMITED ; NAMPAK PLASTICS EUROPE LIMITED

Inventor(s):^(std): GLOVER ANDREW ; ANDREW GLOVER

Inventor(s): GLOVER ANDREW CHESHAM

Agent(s): GRIFFITH HACK; HILL AND SCHUMACHER; MCWILLIAMS DAVID JOHN; MCWILLIAMS DAVID

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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): [B29C49/00](#) [B29C49/42](#) [B29C49/48](#) [B29D22/00](#) [B65D](#) [B65D1/00](#) [B65D1/02](#) [B65D1/44](#) [B65D21/02](#) [B65D23/10](#) [B65D25/30](#) [B65D85/80](#) (Advanced/Invention); [B29L31/46](#) (Advanced/Non-invention); [B65D1/02](#) [B65D21/02](#) [B65D23/10](#) [B65D85/72](#) (Core/Invention); [B65D](#) (Subclass/Invention)

International class
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CPC: [B29C49/48](#) [B29C49/04](#) [B29C49/4802](#) [B29C2049/4887](#) [B29L2031/463](#) [B65D2501/0081](#) [B65D1/0223](#) [B65D1/023](#) [B65D23/10](#) [B65D2501/0009](#) [B65D2501/009](#) [B65D1/02](#) [B65D21/02](#) [B65D21/0201](#) [B65D21/0202](#) [B29D22/003](#) [B65D1/0207](#) [B65D23/102](#) [B65D85/80](#)

European class: [B29C49/48A](#) [B65D1/02](#) [B65D1/02D](#) [B65D1/02D1](#) [B65D23/10](#) [L29C49/04](#) [L29C49/48](#) [L29C49/48K5](#) [L29L31/46B](#) [L65D501/02Y9](#)

US class: [215/379](#) [215/382](#) [215/384](#) [215/398](#) [215/40](#) [215/40P](#) [264/523](#) [264/523S](#) [425/522](#) [425/522S](#)

[Classification Explorer](#)

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Forward Citations: US9446551, US8979524, US8668101, US8535599, EP3153530, EP2679507, EP2679507, CN103523312, CN103523312,

Abstract:

Source: US2011056903A A blow moulded container has a body portion defining a chamber for storing liquid and a neck portion extending from the body portion. The body portion defines a central longitudinal axis and said neck portion is coaxial therewith. The body portion defines an upper shoulder region of curved profile and the neck portion defines a circular cylindrical portion having side walls concentric with and parallel to said central longitudinal axis. The lower end of the cylindrical portion defines a closed loop and has a non-planar intersection with the shoulder region of the body portion.

18) Family number: 28238822 (US2002090473A)

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Title: MULTILAYER CONTAINERS AND PREFORMS HAVING BARRIER PROPERTIES
UTILIZING RECYCLED MATERIAL

Priority: AU19990011008 19981019 AU20000042261 20000410 AU20000042261 20000410
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PLASTICS TECHNOLOGY LUXEMBOURG SA ; ADVANCED PLASTICS TECHNOLOGY
LUXEMBOURG S A ; ADVENCED PLASTICS TECHNOLOGIES LLC ; EHDVEHNSID
PLEHSTIK TEKNOLODZHIS LTD ; CONCENTRATE MFG CO OF IRELAND ;
EHDVEHNSD PLEHSTIKS TEKNOLODZHIZ LJUKSEMBURG SA ; ADVANCED
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International class
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International class
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Abstract:

Source: US2002090473A Preferred embodiments relate to methods and apparatus for making articles made of polyester, preferably virgin polyethylene terephthalate (PET), having coated directly to at least one of the surfaces thereof one or more layers of recycled or post-consumer PET and one or more layers of a material with good gas-barrier characteristics, preferably silicon oxide. Preferably, the recycled PET layer comprises about 25 percent to about 50 percent of the entire material content. Preferably the articles take the form of preforms and the containers are blow-molded therefrom and the barrier layer is subsequently applied. The preferred barrier materials have a lower permeability to oxygen and carbon dioxide than PET. In addition, the neck of the preforms and bottles is at least partially in the crystalline state and the body is primarily in the amorphous or semi-crystalline state. This structure in a preform enables the preform to be easily blow molded by virtue of the amorphous material in the body, while being able to have dimensional stability in hot-fill applications.

19) Family number: 30322055 (US2007144999A)

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Title: BOTTLE AND CLOSURE ASSEMBLY WITH IMPROVED LOCKING ELEMENTS
Priority: EP20040805927 20041203 GB20030029444 20031219 WO2004GB05099 20041203
Family:

Publication number	Publication date	Application number	Application date
AT441597 E	20090915	AT20040805927T	20041203
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US7942287 BB	20110517	US20040582437	20041203
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Probable Assignee: BEESON AND SONS LIMITED**Assignee(s):^(std):** BEESON AND SONS LTD ; BISAN EHND SANZ LTD ; KING ROGER M ; KING ROGER MILNER**Assignee(s):** BISAN EHND SANZ LIMITED ; BEESON AND SONS LIMITED**Inventor(s):^(std):** KING ROGER M ; KING ROGER MILNER ; MILNER KING ROGER ; ROGER MILNER KING ; KING RODZHER MILNER**Inventor(s):** KING ROGER**Agent(s):** HERBERT SMITH FREEHILLS; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE CANADA SENCRL SRL LLP; JAMES ANTHONY CHRISTOPHER W P; OHSHIMA MASATAKA; MARK F SMITH SMITH BRANDENBURG AND NOVAK LTD; SMITH BRANDENBURG LTD; MARK F**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

International class B65D41/04 B65D41/06 B65D41/28 B65D41/34 F16B39/30 (Advanced/Invention);
(IPC 8-9); B65D41/04 B65D41/34 F16B39/00 (Core/Invention);
B65D (Subclass/Invention)

International class B65D41/04 B65D41/28
(IPC 1-7);

CPC: B65D41/0421 B65D41/04 B65D41/28

European class: B65D41/04 B65D41/04B1A B65D41/28

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Abstract:

Source: US2007144999A A threaded container closure assembly, comprising: a container neck (10) having an opening; a—closure (12) for said neck, the closure having a base portion (22) and a skirt portion (24), a first screw thread on the neck said first screw thread comprising one or more first thread segments (16), and a second screw thread on an inner surface of the skirt of the closure, said second screw thread comprising one or more second thread segments (26); a first locking projection (44) on the container neck separate from the first thread segments (16) and a second locking projection (46) on the inner surface of the skirt of the closure separate from the second thread segments (26), said first and second locking projections being configured to resist unscrewing of the closure from the fully engaged position on the container neck after the closure has been secured or resecured on the container neck until a predetermined minimum opening torque is applied; wherein said first and second locking projections (44, 46) longitudinally overlap the first or the second thread segments when the closure is in the fully engaged position on the container neck.

0) US2002033374A – TAMPER EVIDENCING CLOSURE

20) Family number: 28185285 (US2002033374A)

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Title: Tamper evidencing closure

Priority: EP20030770468 20030924 KR20007000005U 20000522 US19970904878 19970801
 US19990323571 19990601 US20000653679 20000901 US20050250249 20051011
 US20080203992 20080904 WO2000US12283 20000505 WO1998US15527 19980723
 WO2003US30350 20030924 US20020266091 20021004 US20010955844 20010918
 US20010900505 20010705

Family:

Publication number	Publication date	Application number	Application date
AT361239 E	20070515	AT19980937158T	19980723
AU199885938 A1	19990222	AU19980085938	19980723
AU200048219 A1	20001218	AU20000048219	20000505
AU200048219 A5	20001218	AU20000048219	20000505
AU200191356 A1	20030123	AU20010091356	20011115
AU200191356 A5	20030123	AU20010091356	20011115
AU2003278956 AA	20040504	AU20030278956	20030924
AU2003278956 AH	20040504	AU20030278956	20030924
AU785404 B2	20070419	AU20010091356	20011115
CA2298700 AA	20000131	CA19982298700	19980723
CA2298700 C	20070522	CA19982298700	19980723
CA2501327 AA	20050404	CA20032501327	20030924
CA2501327 C	20110823	CA20032501327	20030924
CN1089711 C	20020828	CN19988007824	19980723
CN1275114 A	20001129	CN19988007824	19980723
CN1701028 A	20051123	CN20038025129	20030924
DE69837713 D1	20070614	DE19986037713	19980723
DE69837713 T2	20080110	DE19986037713T	19980723
EP1025015 A1	20000809	EP19980937158	19980723
EP1025015 A4	20050727	EP19980937158	19980723
EP1025015 B1	20070502	EP19980937158	19980723
EP1556280 A2	20050727	EP20030770468	20030924
EP1556280 A4	20090624	EP20030770468	20030924
EP2123569 A1	20091125	EP20090010762	20030924
KR200227370 Y1	20010615	KR20000014667U	20000524
MXPA04000110 A1	20040521	MX2004PA00110	20040107
MXPA05003566 A1	20050603	MX2005PA03566	20030924
US2002033374 AA	20020321	US20010900505	20010705
US2002066713 AA	20020606	US20010955844	20010918
US2003071007 AA	20030417	US20020266091	20021004
US2006060555 AA	20060323	US20050250249	20051011
US2009057261 AA	20090305	US20080203992	20080904
US5913437 A	19990622	US19970904878	19970801
US6112923 A	20000905	US19990323571	19990601
US6484896 BB	20021126	US20010900505	20010705
US6766916 BB	20040727	US20010955844	20010918
US6981602 BB	20060103	US20020266091	20021004
WO0073164 A1	20001207	WO2000US12283	20000505
WO03004369 A1	20030116	WO2002US19318	20020617

<u>WO04033312 A2</u>	20040422	WO2003US30350	20030924	
<u>WO04033312 A3</u>	20040826	WO2003US30350	20030924	
<u>WO9906295 A1</u>	19990211	WO1998US15527	19980723	
<u>ZA200109159 A</u>	20021106	ZA20010009159	20011106	
<u>ZA200205290 A</u>	20030410	ZA20020005290	20020702	

Probable Assignee: PORTOLA PACKAGING INC

Assignee(s):^(std): PORTOLA PACKAGING INC ; MA MIKE XIAOLI ; MA MIKE X ; ADAMS BRIAN M

Assignee(s): GENERAL ELECTRIC CAPITAL AGENT AS CORP ; GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGE ; HELLER FINANCIAL ; HELLER FINANCIAL INC ; WAYZATA INVESTMENT PARTNERS LLC ; MA XIAOLI ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGENT AS CORP ; WELLS FARGO FOOTHILL LLC AS AGENT ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDI ; WELLS FARGO FOOTHILL LLC AGENT AS ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDIN ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDINATED CREDITORS) ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDINATED CREDITORS

Inventor(s):^(std): MA MIKE X ; MA MIKE XIAOLI ADAMS BRIAN M ; MIKE X MA ; ADAMS BRIAN M ; BRIAN M ADAMS ; XIAOLI MA ; MA XIAOLI ; MA MIKE XIAOLI

Inventor(s): MA MIKE ; THE DESIGNATION OF THE INVENTOR HAS NOT YET BEEN FILED ; ADAMS BRIAN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; MCLEISH NICHOLAS ALISTAIR MAXWELL; DAVID J BREZNER DORSEY AND WHITNEY LLP; ADAM K SACHAROFF MUCH SHELST FREED DENENBERG AMENT AND RUBENSTEIN PC; DORSEY AND WHITNEY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 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

International class
(IPC 8-9): B28B13/06 B28B7/10 B29C41/42 B29C45/44 B65D1/00 B65D39/00 B65D41/00 B65D41/32 B65D41/34 B65D49/12 B65D50/00 B65D51/00 B65D51/16 B65D55/02 (Advanced/Invention); B65D41/34 (Advanced/Non-invention); B65D39/00 B65D41/34 B65D50/00 B65D55/02 (Core/Invention); B65D (Subclass/Invention)

International class
(IPC 1-7): B28B13/06 B28B7/10 B29C41/42 B65D0/0000 B65D1/00 B65D39/00 B65D41/00 B65D41/34 B65D50/00 B65D55/02

CPC: B65D41/3428 B29C43/42 B29C43/50 B29C45/4407 B29L2031/565 B65D41/3409 B65D2101/0046

European class: B29C43/42 B29C43/50 B29C45/44B B65D41/34A1 B65D41/34C1 L29C43/50 L29L31/56B L65D101/00A3D

US class: 215/252 215/254 215/256 215/258 215/258S 215/307 215/307S 215/329 215/344 215/344S 215/43 215/44 264/328.1 264/328.100S 264/334 264/334S

[Classification Explorer](#)

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Forward Citations:

WO15046889, WO13001454, WO13001454, WO11070326, WO09095297, WO08092716, WO08092716, WO07081656, WO07033722, WO04048220, WO03050033, WO03016161, WO03004369, USD763691, USD756776, USD756234, USD747201, USD746685, USD723919, USD664852, USD654362, USD619003, USD613162, USD606401, USD584619, USD584149, USD564879, USD553987, USD550084, USD538654, USD534802, USD531505, USD530205, USD529804, USD527631, USD525523, USD525125, USD518716, USD508204, USD507745, USD457433, USD449991, US9738409, US9676129, US9617045, US9522759, US9409680, US9403310, US9290306, US9205946, US8931243, US8926590, US8845256, US8807360, US8650839, US8567619, US8544666, US8529501, US8517194, US8499950, US8443999, US8413830, US8408208, US8348576, US8251236, US8231018, US8206377, US8100277, US8066139, US8061543, US8016142, US7891511, US7875000, US7798359, US7780024, US7766178, US7735664, US7721510, US7644902, US7637384, US7451898, US7445130, US7422169, US7413097, US7293396, US7261226, US7198170, US7059553, US7032772, US6974046, US6968966, US6968965, US6948630, US6877624, US6702161, US6659297, US6622460, US6571994, US6557714, US6382443, US2017057139, US2015166225, US2014263475, US2014190968, US2013206718, US2013038992, US2012111822, US2012067892, US2012018401, US2011309048, US2011151980, US2011100947, US2011024423, US2010314391, US2010308050, US2010230374, US2010215548, US2010102021, US2010089863, US2010084364, US2010032402, US2009302037, US2009200259, US2009200258, US2009020530, US2009013642, US2008218362, US2008210745, US2008173612, US2007257002, US2007251950, US2007232893, US2007173756, US2007158295, US2007125785, US2007125783, US2007034590, US2007000932, US2006266727, US2006208115, US2006163192, US2006151423, US2006070972, US2005252878, US2005199574, US2005167879, US2005167389, US2005145629, US2005092750, US2005072751, US2005040176, US2005000931, US2004251276, US2004168999, US2004159727, US2004155006, US2004094501, US2004045925, US2003192854, US2003150833, US2003116522, TWI498258, KR200462672, JP4932710, JP2008508151, JP2007501169, ITMI20111912, GB2476089, FR2911584, ES2321471, EP2586721, EP2223656, EP2123569, EP2088090, EP1953091, EP1660379, EP1445207, EP1288133, DE102010039036, CN103857599, CN103857599, AU2003302391, AU2002333387,

Abstract:

Source: US2002033374A A container including a neck and an opening, in combination with a tamper-evidencing closure including a top, a depending annular skirt and a tamper-evidencing band frangibly connected to the annular skirt. The container includes a first securing structure on the neck spaced from the opening. The tamper-evidencing band includes an inwardly turned retaining rim that extends at least partially upwardly. The retaining rim has a free edge for engagement with the locking surface as the closure is removed from the neck. The retaining rim includes a plurality of outwardly directed flutes spaced circumferentially thereon and a second securing structure located on the retaining rim between the flutes.

0) US2009236244A – CONTAINER CLOSURE HAVING MEANS FOR INTRODUCING ...

21) Family number: 33117757 (US2009236244A)

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Title: CONTAINER CLOSURE HAVING MEANS FOR INTRODUCING AND ADDITIVE INTO THE CONTENTS OF THE CONTAINER

Priority: GB20060008638 20060503 GB20060015991 20060811 WO2007GB50236 20070503
WO2007GB50483 20070810 WO2007GB50236 20060503 GB20070000732 20070115
WO2007GB50485 20070810

Family:

Publication number	Publication date	Application number	Application date
<u>AT500159 E</u>	20110315	AT20070733657T	20070503
<u>AU2007246847 AA</u>	20071115	AU20070246847	20070503
<u>AU2007246847 BB</u>	20130606	AU20070246847	20070503
<u>CA2650331 AA</u>	20081023	CA20072650331	20070503
<u>CA2650331 C</u>	20141104	CA20072650331	20070503
<u>CN101479165 A</u>	20090708	CN200780023837	20070503
<u>CN101479165 B</u>	20130925	CN200780023837	20070503
<u>DE602007012853 D1</u>	20110414	DE200760012853T	20070503
<u>DK2013105 T3</u>	20110620	DK20070733657T	20070503
<u>EP2013105 A1</u>	20090114	EP20070733657	20070503
<u>EP2013105 B1</u>	20110302	EP20070733657	20070503
<u>EP2013105 B9</u>	20120104	EP20070733657	20070503
<u>EP2049410 A1</u>	20090422	EP20070789371	20070810
<u>ES2361946 T3</u>	20110624	ES20070733657T	20070503
<u>ES2361946 T4</u>	20111007	ES20070733657T	20070503
GB200608638 A0	20060614	GB20060008638	20060503
GB200615991 A0	20060920	GB20060015991	20060811
GB200700732 A0	20070221	GB20070000732	20070115
GB200900477 A0	20090211	GB20090000477	20070810
<u>GB2452676 A1</u>	20090311	GB20090000477	20070810
<u>GB2452676 B2</u>	20110323	GB20090000477	20070810
<u>IN09269DN2008 A</u>	20090327	IN2008DN09269	20081105
<u>JP2009535269 T2</u>	20091001	JP20090508504T	20070503
<u>JP5105553 B2</u>	20121226	JP20090508504T	20070503
<u>NZ572198 A</u>	20110930	NZ20070572198	20070503
<u>PT2013105 T</u>	20110609	PT20070733657T	20070503
<u>RU2008147140 A</u>	20100610	RU20080147140	20070503
<u>RU2445246 C2</u>	20120320	RU20080147140	20070503
<u>US2009236244 AA</u>	20090924	US20070226887	20070503
<u>US2009236244 AA</u>	20090924	US20060226887	20060503
<u>US2009236244 AA</u>	20090924	US20070226887	20070503
<u>US2009321286 AA</u>	20091231	US20070309847	20070810
<u>US7886899 BB</u>	20110215	US20070226887	20070503
<u>WO07129116 A1</u>	20071115	WO2007GB50236	20070503
<u>WO08017890 A1</u>	20080214	WO2007GB50483	20070810
<u>WO08017891 A1</u>	20080214	WO2007GB50485	20070810
<u>ZA200809240 A</u>	20091125	ZA20080009240	20081028

Probable Assignee: GIZMO PACKAGING LTD

Assignee(s):^(std): BERNARD FRUTIN ; FRUTIN BERNARD ; GIZMO PACKAGING LTD ; ROCEP LUSOL HOLDINGS ; GIZMO PEHKEHDZHING LTD

Assignee(s): ROCEP LUSOL HOLDINGS LIMITED ; GIZMO PEHKEHDZHING LIMITED ; GIZMO PACKAGING LTDROCEP DRIVEROCEP BUSINESS PARKDEANPARKRENREWPA4 8XY STRATHCLYDEGB ; ROCEP LUSOL HOLDINGS LTD ; FRUTIN BERNARD DEREK ; GIZMO PACKAGING LIMITED

Inventor(s):^(std): FRUTIN BERNARD ; DEREK FRUTIN BERNARD ; BERNARD FRUTIN ; FRUTIN BERNARD DEREK

Inventor(s): BERNARD DEREK FRUTIN ; FRUTIN BERNARD DEREKGB

Agent(s): WRAYS; TEITELBAUM AND MACLEAN; MURNANE GRAHAM JOHN; MURNANE GRAHAM JOHN ET AL; DRINKER BIDDLE AND REATH,ATTN: INTELLECTUAL PROPERTY GROUP; DRINKER BIDDLE AND REATH ATTN INTELLECTUAL PROPERTY GROUP; DRINKER BIDDLE AND REATH LLP; MURGITROYD COMPANY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): B23P11/00 B65D25/08 B65D41/00 B65D51/24 B65D51/28 B65D81/32 B67B3/20 B67B3/28 B67D7/74 (Advanced/Invention);
B23P11/00 B65D25/04 B65D41/00 B65D51/24 B67B3/00 (Core/Invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): B65D51/28

CPC: B65D51/2828 B65D51/24 B65D51/28 B65D51/2807 Y10T29/49826 B65D51/2892

European class: B65D51/24 B65D51/28 B65D51/28B1B B65D51/28B2D

US class: 206/219 206/221 215/227 215/227S 215/316 215/356 215/356S 215/364 215/364S 222/145.6 29/428 426/115 53/471 53/490 53/490S

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Forward Citations: WO17174962, WO17067803, WO17065695, WO16128420, WO15177167, WO15169824, WO15169822, WO15169821, WO12175934, WO12175934, WO11149501, WO11133577, WO11133577, WO10029585, WO09086652, WO08117321, USD631351, US9751667, US9745118, US9718598, US9604765, US9221596, US9045269, US8943784, US8935904, US8857665, US8714808, US8584840, US8464883, US8443970, US8356711, US8123054, US2017233162, US2015167896, US2014305817, US2014166510, US2012211457, US2012067765, US2012017766, US2011174642, US2010044338, US2007280042, RU2620874, RU2605177, RU2502657, KR20140040217, KR101704380, JP2014520045, JP2011509221, EP2947026, EA024342, DE102016102247, DE102015118053, DE102014113392, DE102014113391, DE102014113202, DE102014107550, CN106536370, CN105966749, CN103648923, CN103648923, CN103619722, CN103260418, CN103260418, CN102971225, CN102871336, AU2012273785,

Abstract:

Source: US2009236244A A closure device with a fluid chamber containing an additive. The additive can be introduced and mixed into a liquid in the container by the closure device. The closure device includes a cap member having a fluid chamber and a housing having a plug member. The cap member is provided with a primary engagement means, which engages with a corresponding primary engagement means provided on the housing to allow the cap member to be lifted relative to the housing from a closed position in which the plug member closes an aperture in the fluid chamber to an open position in which the plug member is at least partially withdrawn from the aperture, thereby allowing the additive to pass from the fluid chamber to the liquid in the bottle. The closure device enables mixing of the additive and liquid in the bottle without opening the closure.

22) Family number: 33366293 (US2008067142A)

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Title: SEALING MEANS FOR A CLOSURE, CLOSURE AND PROCESS

Priority: EP20040051559 20050407 EP20050747178 20050408 EP20050857768 20050802
 EP20050792201 20050901 US20040606240 20040901 EP20080162481 20050802
 US20050574569 20050802 US20050574567 20050901 US20050886272 20050407
 US20050574565 20050408 US20050661983P 20050314 WO2005EP50575 20050408
 US20040606240P 20040901 US20050655324P 20050223 WO2005EP55159 20050407
 WO2005EP51575 20050407 WO2005EP51559 20050407 WO2005EP53777 20050802
 WO2005EP51575 20050408 WO2005EP54307 20050901

Family:

Publication number	Publication date	Application number	Application date
AT384672 E	20080215	AT20050792201T	20050901
AT405498 E	20080915	AT20050857768T	20050802
AT416992 E	20081215	AT20050747178T	20050408
AU2005279146 AA	20060309	AU20050279146	20050901
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AU2005279311 AA	20060309	AU20050279311	20050408
AU2005279311 BB	20111103	AU20050279311	20050408
AU2005331483 AA	20061109	AU20050331483	20050802
AU2005331483 BB	20120216	AU20050331483	20050802
BRPI0514822 A	20080624	BR2005PI14822	20050802
CA2579783 AA	20070315	CA20052579783	20050408
CA2579783 C	20130205	CA20052579783	20050408
CA2579788 AA	20070315	CA20052579788	20050901
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CN101044067 B	20100818	CN200580035668	20050802
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DK1789336 T3	20090105	DK20050857768T	20050802
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EP1799574 B1	20080123	EP20050792201	20050901
EP1879807 A2	20080123	EP20050731954	20050407
EP1985549 A1	20081029	EP20080162481	20050802

<u>EP2065314 A2</u>	20090603	EP20080171115	20050408
<u>EP2065314 A3</u>	20090916	EP20080171115	20050408
<u>ES2302235 T3</u>	20080701	ES20050792201T	20050901
<u>ES2313457 T3</u>	20090301	ES20050857768T	20050802
<u>ES2319554 T3</u>	20090508	ES20050747178T	20050408
<u>HK1099893 A1</u>	20090220	HK20070107500	20070712
<u>HK1099893 A3</u>	20070824	HK20070107500	20070712
<u>HK1101158 A1</u>	20080321	HK20070109312	20070827
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<u>HK1101817 A1</u>	20090409	HK20070109862	20070911
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<u>HK1120482 A3</u>	20090403	HK20090101274	20090211
<u>IL181627 A0</u>	20070704	IL20070181627	20070228
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<u>IN01352CN2007 A</u>	20070831	IN2007CN01352	20070402
<u>IN255199 B</u>	20130208	IN2007CN01352	20070402
<u>JP2008511505 T2</u>	20080417	JP20070528817T	20050802
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<u>KR101233851 B1</u>	20130215	KR20077007476	20050802
<u>KR20070061852 A</u>	20070614	KR20077007476	20050802
<u>MA28917 B1</u>	20071001	MA20070029797	20070403
<u>MX2007002498 A1</u>	20071010	MX20070002498	20050802
<u>NZ553850 A</u>	20100930	NZ20050553850	20050802
<u>PT1789336 T</u>	20081128	PT20050857768T	20050802
<u>PT1799573 T</u>	20090318	PT20050747178T	20050408
<u>PT1799574 T</u>	20080422	PT20050792201T	20050901
<u>TH40759 B</u>	20140708	TH20061000791	20060223
<u>TH41104 B</u>	20140814	TH20061000861	20060228
<u>TH44406 B</u>	20150527	TH20061000862	20060228
<u>TH81435 A</u>	20061123	TH20061000791	20060223
<u>TH81829 A</u>	20061214	TH20061001085	20060313
<u>TH82662 A</u>	20070125	TH20061000861	20060228
<u>TH83086 A</u>	20070215	TH20061000862	20060228
<u>UA87870 C2</u>	20090825	UA20070003322	20050802
<u>US2008067142 AA</u>	20080320	US20050574569	20050802
<u>US2008169261 AA</u>	20080717	US20050574567	20050901
<u>US2008272083 AA</u>	20081106	US20050886272	20050407
<u>US2008314000 AA</u>	20081225	US20050574565	20050408
<u>US7905820 BB</u>	20110315	US20050574565	20050408
<u>US8393483 BB</u>	20130312	US20050574569	20050802
<u>US8733566 BB</u>	20140527	US20050574567	20050901
<u>VN7860 A1</u>	20090825	VN20070000680	20050802
<u>WO06024550 A1</u>	20060309	WO2005EP51575	20050408
<u>WO06024656 A1</u>	20060309	WO2005EP54307	20050901
<u>WO06097151 A2</u>	20060921	WO2005EP51559	20050407
<u>WO06097151 A3</u>	20070607	WO2005EP51559	20050407
<u>WO06117024 A1</u>	20061109	WO2005EP53777	20050802
<u>ZA200702221 A</u>	20080925	ZA20070002221	20070316

Probable Assignee: CREANOVA UNIVERSAL CLOSURES

Assignee(s):^(std): CREANOVA UNIVERSAL CLOSURES CO LTD ; CREANOVA UNIVERSAL CLOSURES LT ; DRUITT RODNEY ; LAGLER LOUIS ; DRUITT ROD ; DRUITT RODNEY M ; CREANOVA UNIVERSAL CLOSURES LTD ; CREANOVA UNIVERSAL CLOSURE LTD ; CREANOVA UNIVERSAL CLOSURES

Assignee(s): CREANOVA UNIVERSAL CLOSURES CO

Inventor(s):^(std): LAGLER LOUIS ; LOUIS DRUITT RODNEY LAGLER ; LOUIS LAGLER ; ROD DRUITT ; RODNEY DRUITT ; DRUITT RODNEY M ; DRUITT ROD ; DRUITT RODNEY

Inventor(s): DRUITT RODNEY LAGLER LOUIS

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; GOUDREAU GAGE DUBUC; RENTSCH AND PARTNER; REINHOLD COHN AND PARTNERS; OSTROLENK FABER GERB AND SOFFEN; OSTROLENK FABER 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 KP KR KZ LC LI LK LR LS LT LU LV 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

International class
(IPC 8-9): B29C45/14 B65B7/28 B65D39/08 B65D41/00 B65D41/04 B65D41/14 B65D41/32 B65D41/34 B65D41/38 B65D43/16 B65D47/08 B65D47/10 B65D47/36 B65D51/18 B65D53/00 B65D53/02 B65D53/04 B65D55/02 (Advanced/Invention); B65D41/04 B65D41/34 (Advanced/Non-invention); B29C45/14 B65B7/28 B65D41/00 B65D41/04 B65D41/32 B65D41/34 B65D47/00 B65D47/06 B65D47/08 B65D51/18 B65D53/00 (Core/Invention); B65D (Subclass/Invention)

International class
(IPC 1-7): B65D41/04

CPC: B65D41/045 B65D41/3447 B65D41/0428 B65D47/0809 B65D2101/0023 B65D2215/02 B65D2251/1016 B65D2251/1066 B65D47/243 B65D2251/105 B65D41/04

European class: B65D41/04 B65D41/04B2 B65D41/04D2 B65D41/34D1 B65D47/08B1 B65D47/24A2 L65D101/00A3 L65D215/02 L65D251/10D L65D251/10D4 L65D251/10F

US class: 215/235 215/235S 215/237 215/252 215/253 215/253S 215/254 215/254S 215/324 215/329 215/329S 215/341 215/341S 215/343 215/344 215/345 215/354 220/259.1 220/259.100S 220/326 220/835 222/153.06 222/153.060S 222/541.5 222/541.500S 222/556 264/250 264/263 493/114 493/84 53/490 53/490P

[Classification Explorer](#)

Cited documents: WO9903747 A1, WO9903746 A1, WO9738912 A2, WO8912584 A1, WO8500153 A1, WO06097151 A2, WO03086891 A1, WO03026981 A1, WO03022701 A1, WO03011699 A1, WO0232775 A1, WO02060776 A1, WO0146032 A2, WO0056616 A1, WO0056615 A1, WO0044639 A1, US7651004 BB, US7575121 BB, US7503468 BB, US7264131 BB, US7014055 BB, US6783015 BA, US6779672 BB, US6769575 BA, US6695161 BB, US6679395 BA, US6634060 BA, US6581793 BA, US6550626 BA, US6405885 BA, US6347716 BA, US6338414 BA, US6325226 BA, US6296986 BA, US6260721 BA, US6234334 BA, US6126027 A, US6041477 A, US6021912 A, US5984124 A, US5913436 A, US5875907 A, US5853093 A, US5803286 A, US5794308 A, US5782369 A, US5769255 A, US5735419 A, US5725116 A, US5678718 A, US5634060 A, US5603436 A, US5573128 A, US5535802 A, US5478337 A, US5447674 A, US5423444 A, US5421470 A, US5386918 A, US5305900 A, US5297688 A, US5297622 A, US5148912 A, US4913493 A, US4907709 A, US4899897 A, US4838441 A, US4721221 A, US4667838 A, US4646926 A, US4638917 A, US4598835 A, US4592476 A, US4566603 A, US4560077 A, US4546892 A, US4519514 A, US4489845 A, US4489844 A, US4442947 A, US4386712 A, US4322012 A, US4143785 A, US4033472 A, US3463340 A, US3441161 A, US3360149 A, US2009159555 AA, US2006255003 AA, US2005140053 AA, US2004238478 AA, US2004188374 AA, US2004069806 AA, US2004069739 AA, US2004060893 AA, US2003062369 AA, US2003034323 AA, US2002158037 AA, US2001032827 AA, US2001027957 AA, US1993, US1984, US1982, NZ502482 A, JP8324610 A2, JP63057250 A2, JP58073551 A2, JP51132356 A2, JP2002145312 A2, JP2001328653 A2, JP2000109105 A2, JP2000079954 A2, JP11180457 A2, JP10147359 A2, JP10035699 A2, GB788148 A, FR2828172 A1, FR2802182 A1, FR2715381 A1, EP2005051559, EP1996, EP1992, EP1985, EP1984, EP1982, EP1600394 A1, EP1582475 A1, EP1075432 A1, EP0987190 A1, EP0931728 A1, EP0836576 A1, EP0770559 A1, EP0746512 A1, EP0685406 A1, EP0621199 A1, EP0532471 A1, EP0529383 A2, EP0515348 A1, EP0309369 A1, EP0176205 A2, EP0151242 A2, EP0114127 A2, EP0093690 A1, EP0076778 A1, DE3842443 A1, DE3139526 A1, CN2438673 Y, CN1221386 A, CN1071135 A, CN1027532 C, CH410655 A, CH410655,

AU1545676 A1, AU1545676, AU1418083 A1, AU1418083,

Forward Citations: WO15128091, WO14193211, WO13129940, WO13007826, WO12095501, WO09053693, WO08068416, WO08068416, USD778160, USD775950, USD756776, USD756234, USD755251, USD741713, USD634200, USD634199, USD633386, US9758281, US9533803, US9511906, US9439523, US9428292, US9415909, US9382045, US9169048, US9096359, US9090386, US8763830, US8672158, US8646634, US8596493, US8403159, US8292101, US8276777, US8231020, US7861873, US2016145032, US2015251820, US2015108167, US2015034644, US2014346172, US2014312038, US2013248479, US2013082056, US2013043206, US2012091134, US2011006031, US2011000137, US2010170910, US2008110933, KR101660932, KR101594711, JP2008308181, GB2467057, GB2467057, EP1985549, DE102014204831, CN105059708, CN105008236, CN105008236, CN103596850, CN103596850, CN103402884, CN103342190, CN103342190, CN103342189, CN103342189, CN103318519, CN103298705, CN103298705, CN103287231, CN102514806, AU2012206593,

Abstract:

Source: US2008067142A The present invention is directed to a sealing means for sealing of a neck of a container, especially a container for carbonated beverages. The sealing means comprises a radially deformable outer sealing means suitable to be engaged with an outer free surface of a neck of the container. The outer sealing means comprises an annular base which blends by a blend into a vertical top surface and at least one annular sealing ring arranged at a free end of the annular base, protruding radially inwardly above the inner surface of the base and forming in engaged position with the neck a first contact area with the outer free surface.

0) US2006051539A – DLC FILM COATED PLASTIC CONTAINER, AND DEVICE A...

23) Family number: 30109328 (US2006051539A)

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Title: DLC FILM COATED PLASTIC CONTAINER, AND DEVICE AND METHOD FOR MANUFACTURING THE PLASTIC CONTAINER

Priority: AU20030241765 20030526 AU20090227865 20091019 JP20020154697 20020528
EP20030733060 20030526 US20050514728 20050727 EP20090001090 20030526
WO2003JP06528 20030526 US20100749175 20100329 US20120557737 20120725

Family:	Publication number	Publication date	Application number	Application date
	AT506270 E	20110515	AT20030733060T	20030526
	AT521545 E	20110915	AT20030001090T	20030526
	AU2003241765 AA	20031219	AU20030241765	20030526
	AU2003241765 BB	20090806	AU20030241765	20030526
	AU2009227865 AA	20091112	AU20090227865	20091019
	AU2009227865 BB	20110519	AU20090227865	20091019
	CN100337881 C	20070919	CN20038012087	20030526
	CN1655993 A	20050817	CN20038012087	20030526
	DE60336808 D1	20110601	DE20036036808	20030526
	DE60338229 D1	20111124	DE20036038229	20030526
	EP1508525 A1	20050223	EP20030733060	20030526
	EP1508525 A4	20081001	EP20030733060	20030526
	EP1508525 B1	20110420	EP20030733060	20030526
	EP2052987 A2	20090429	EP20090001090	20030526
	EP2052987 A3	20090506	EP20090001090	20030526
	EP2052987 B1	20110824	EP20090001090	20030526
	JP2003101847 A1	20050929	JP20040509551T	20030526
	JP4188315 B1	20081126	JP20040509551T	20030526
	JP4188315 B2	20081126	JP20040509551T	20030526
	KR100961419 B1	20100609	KR20047019260	20030526
	KR20050013112 A	20050202	KR20047019260	20030526
	RU2004138301 A	20051027	RU20040138301	20030526
	RU2336365 C2	20081020	RU20040138301	20030526
	US2006051539 AA	20060309	US20050514728	20050727
	US2010275847 AA	20101104	US20100749175	20100329
	US2013189448 AA	20130725	US20120557737	20120725
	US7754302 BB	20100713	US20050514728	20050727
	WO03101847 A1	20031211	WO2003JP06528	20030526

Probable Assignee: KIRIN BREWERY CO LTD

Assignee(s):^(std): KIRIN BREWERY ; ANDO HIDEYASU ; YAMASAKI TERUYUKI ; SHIRAKURA AKIRA

Assignee(s): KIRIN BEER KABUSHIKI KAISHA ; KIRIN BEER KK ; KIRIN BIR KABUSIKI KAJSSA ; KIRIN BREWERY COMPANY LTD ; KIRIN BREWERY COMPANY LIMITED ; KIRIN BREWERY CO ; KIRIN HOLDINGS KK ; KIRIN BREWERY CO LTD ; KIRIN BREWERY CO LIMITED ; KIRIN BREWERY COMPANY LIMITED

Inventor(s):^(std): AKIRA SHIRAKURA ; ANDO HIDEYASU ; HIDEYASU ANDO ; HIDEYASU YAMASAKI TERUYUKI SHI ; ANDO KHIJESASU ; YAMASAKI TERUYUKI ; SHIRAKURA AKIRA ; TERUYUKI YAMASAKI ; JAMASAKI TERUJUKI ; SIRAKURA AKIRA

Inventor(s): SHIRAKURA AKIRA KIRIN BREWERY COMPANY LTD ; YAMASAKI TERUYUKI KIRIN BREWERY COMPANY LTD ; YAMASAKI TERUYUKI SHIRAKURA AKIRA ANDO HIDEYASU ; ANDO HIDEYASU KIRIN BREWERY COMPANY LTD

Agent(s):

FB RICE; FB RICE PTY LTD; PRINZ AND PARTNER MBB PATENTANWALTE
RECHTSANWALTE; PRINZ AND PARTNER; IMASHITA KATSUHIRO; OKADA KENJI;
OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK
MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO
CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW
HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG
MK ML MN MR MW MX MZ NE NI 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

International class
(IPC 8-9): B32B27/08 B65D23/02 B65D23/08 C23C16/04 C23C16/26 C23C16/448
C23C16/505 (Advanced/Invention);
B65D23/02 C23C16/00 C23C16/26 (Advanced/Non-invention);
B32B27/08 B65D23/00 C23C16/04 C23C16/26 C23C16/50 (Core/Invention);
C23C16/00 (Core/Non-invention)

International class
(IPC 1-7): B65D23/02 C23C16/26

CPC: B65D1/0215 B65D23/0814 C23C16/045 C23C16/505 Y10T428/1352 C23C16/26

European class: B65D1/02B1 B65D23/08B1 C23C16/04D C23C16/26 C23C16/505

US class: 118/723.00IP 118/723I 220/62.12 220/62.22 427/237 427/577 428/35.7

[Classification Explorer](#)

Cited documents: WO9949991 A1, WO03102263 A1, WO0132513 A1, WO0071780 A1, US7166336 BA,
US7029752 BB, US6919114 BA, US6805931 BB, US6589619 BA, US6503579 BA,
US6276296 BA, US6180191 BA, US6180191 B1, US6045916 A, US5885672 A,
US5798139 A, US4746538 A, US4667620 A, US2007157885 AA, US2006051539 AA,
US2005118365 AA, US2003124229 AA, US2003087030 AA, JP8053117 A2,
JP2001335947 A2, JP2001335947, JP2001031045 A2, JP2001031045, EP1197581 A1,
EP1010773 A1,

Forward Citations: WO13110491, WO13110491, WO10119578, WO10045555, WO08114475, WO06058547,
WO05035825, US9764093, US9664626, US9662450, US9572526, US9554968,
US9545360, US9458536, US9445969, US9272095, US8950614, US8950356,
US8883257, US8834954, US8722163, US8512796, US7985188, US7967945,
US7887891, US7754302, US7166336, US2015150759, US2012052215, US2011001103,
US2010275847, US2010200587, US2009297730, US2009284421, US2008206477,
US2007235427, US2007157885, US2005266191, US2005230492, JP2008229968,
JP2006321528, JP2006160268,

Abstract:

Source: US2006051539A The present invention provides a plastic container having a inner wall surface coated with DLC film which has same level of oxygen barrier property as prior art and can prevent a coloring of the DLC film formed on a neck portion of the container, manufacturing apparatus therefor and manufacturing method thereof. The apparatus for manufacturing the DLC film coated plastic container, comprising: a container side electrode which forms one portion of a pressure-reducing chamber which houses a container formed from plastic, a facing electrode which faces said container side electrode and is arranged inside said container or above said opening, wherein said container side electrode and said facing electrode are made to face each other via an insulating body which forms a portion of said pressure-reducing chamber, source gas supply means which includes a supply gas inlet pipe, exhaust means, and high frequency supply means; wherein said container side electrode is formed so that the average inner hole diameter of the inner wall surrounding said neck portion when the container is housed becomes smaller than the average inner hole diameter of the inner wall surrounding said body portion, and the average distance between the outer wall of said container and the inner wall of said container side electrode in a horizontal cross section with respect to the vertical direction of said container at said neck portion becomes longer than the average distance between the outer wall of said container and the inner wall of said container side electrode in a horizontal cross section with respect to the vertical direction of said container at said body portion.

0) US2004178168A – CONTAINER STOPPER

24) Family number: 23175446 (US2004178168A)

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Title: CONTAINER STOPPER

Priority: AU2001PR06115 20010704 AU2001PR09097 20011126 AU20020318964 20020703
AU2001PR61151 20010704 US20030482384 20031231 US20080211541 20080916
WO2002AU00877 20020703

Family:	Publication number	Publication date	Application number	Application date
	<u>AR040322 AA</u>	20050330	AR2002P102512	20020704
	<u>AT420033 E</u>	20090115	AT20020748421T	20020703
	<u>AU2001006115 A0</u>	20010726	AU2001PR06115	20010704
	<u>AU2001009097 A0</u>	20011220	AU2001PR09097	20011126
	<u>AU2002318964 AA</u>	20030121	AU20020318964	20020703
	<u>AU2002318964 BB</u>	20050512	AU20020318964	20020703
	<u>AU2002318964 BH</u>	20050929	AU20020318964	20020703
	<u>CA2453032 AA</u>	20040105	CA20022453032	20020703
	<u>CL2002001486 A1</u>	20030704	CL20020001486	20020704
	<u>CN1288040 C</u>	20061206	CN20028013424	20020703
	<u>CN1527782 A</u>	20040908	CN20028013424	20020703
	<u>DE60230753 D1</u>	20090226	DE20026030753	20020703
	<u>EP1401721 A1</u>	20040331	EP20020748421	20020703
	<u>EP1401721 A4</u>	20060531	EP20020748421	20020703
	<u>EP1401721 B1</u>	20090107	EP20020748421	20020703
	<u>ES2321168 T3</u>	20090603	ES20020748421T	20020703
	<u>JP2004532777 T2</u>	20041028	JP20030510349T	20020703
	<u>NZ529774 A</u>	20041029	NZ20020529774	20020703
	<u>PT1401721 I</u>	20090409	PT20020748421T	20020703
	<u>US2004178168 AA</u>	20040916	US20030482384	20031231
	<u>US2009236355 AA</u>	20090924	US20080211541	20080916
	<u>WO03004367 A1</u>	20030116	WO2002AU00877	20020703
	<u>ZA200309923 A</u>	20040927	ZA20030009923	20031222

Probable Assignee: IRONSIDE TRADING PTY LTD

Assignee(s):^(std): IRONSIDE TRADING PTY LTD ; MATHESON NORMA CATHERINE ; PROCEL PTY LTD ; PROCORK PTY LTD

Inventor(s):^(std): MATHESON NORMA ; MATHESON NORMA CATHERINE ; NORMA CATHERINE MATHESON

Agent(s): IP STRATEGIES; OSLER HOSKIN AND HARCOURT LLP; PORZIO; GILLAM FRANCIS CYRIL ET AL; HASHIMOTO MASAO; MASUI CHUJI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; CONNOLLY BOVE LODGE AND HUTZ LLP

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

International class
(IPC 8-9): B32B37/12 B65D39/00 B65D39/04 B67B1/00 B67B1/03 (Advanced/Invention);
B32B37/12 B65D39/00 B67B1/00 (Core/Invention);
B65D B67B (Subclass/Invention)

International class
(IPC 1-7): B65D039/00 B65D39/00 B65D39/04 B67B1/03

CPC: B65D39/0058 B65D2539/008 Y10T156/10

European class: B65D39/00G1 L65D339/10 L65D539/00Y10 L65D539/10

US class: 156/60 215/364 220/801

[Classification Explorer](#)

Cited documents: WO0064647 A1, WO0034140 A1, US6796449 BB, US6601722 BA, US6355320, US5665462, US5527580 A, US5447246 A, US4854125 A, US4188457 A, US2006035074 AA, US2002014468 AA, FR983488 A, FR1534142 A, EP0532367 A2, DE4225092 A1, DE29912842 U1, DE29912842,

Forward Citations: WO15052659, WO11089245, WO10070033, WO10070033, WO08058344, WO07133438, WO04060763, WO04020299, WO03074379, WO03074379, US9573732, US8807363, US8414809, US8402921, US7997439, US7993743, US7966970, US7886923, US7517933, US2015266629, US2015166223, US2012266573, US2011180442, US2010213160, US2009236306, US2008078737, US2007272650, US2007262165, US2006222800, US2006124232, US2003102283, EP2347969, EP2199042, EP1908567, EP1587742, DE102006013102, CN103043274, CN103025619, BE1016664, AU2011208615, AU2007321722, AU2003261735, AU2003254400, AU2003209462,

Abstract:

Source: US2004178168A A container stopper comprising a compressible body (2) having at least one end for insertion into an opening of a container, and a film (1) on the end of the compressible body (2) for providing a protective layer between the compressible body and the container contents; wherein at least a region at the end of the compressible body has at least one property whereby upon compression of the body for insertion into an opening of a container said region compresses without substantially adversely affecting the protective layer provided by the film (1).

25) Family number: 33074539 (US2006124072A)

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Title: CONTAINMENT SYSTEMS AND COMPONENTS FOR ANIMAL HUSBANDRY

Priority: AU20050316645 20051213 EP20050853806 20051213 US20040635756P 20041213
 US20050300664 20051213 EP20120160134 20051213 EP20060773076 20060613
 US20060423949 20060613 US20070695077 20070402 US20070695075 20070402
 US20050690811P 20050614 US20060804554P 20060612 US20050717826P 20050916
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 WO2005US44977 20051213 WO2006US23038 20060613 US20120594703 20120824
 US20130775080 20130222 US20130771015 20130219 US20160004236 20160122

Family:

Publication number	Publication date	Application number	Application date
<u>AT555653 E</u>	20120515	AT20050853806T	20051213
<u>AU2005316645 AA</u>	20060622	AU20050316645	20051213
<u>AU2005316645 BB</u>	20120202	AU20050316645	20051213
<u>AU2006259544 AA</u>	20061228	AU20060259544	20060613
<u>AU2006259544 BB</u>	20120405	AU20060259544	20060613
<u>CA2590865 AA</u>	20070612	CA20052590865	20051213
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<u>DE602006046055 D1</u>	20150903	DE200660046055T	20060613
<u>EP1830628 A2</u>	20070912	EP20050853806	20051213
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<u>US2013160716 AA</u>	20130627	US20130775080	20130222
<u>US2013220229 AA</u>	20130829	US20130771015	20130219
<u>US2016270365 AA</u>	20160922	US20160004236	20160122
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<u>US7665419 BB</u>	20100223	US20070695075	20070402
<u>US7734381 BB</u>	20100608	US20070695084	20070402
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<u>US9706752 BB</u>	20170718	US20160004236	20160122
<u>WO06065773 A2</u>	20060622	WO2005US44977	20051213
<u>WO06065773 A3</u>	20090402	WO2005US44977	20051213
<u>WO06138323 A2</u>	20061228	WO2006US23038	20060613
<u>WO06138323 A3</u>	20090430	WO2006US23038	20060613

Probable Assignee: INNOVIVE INC

Assignee(s):^(std): CANNELL ASA ; CONGER DEE ; D ARTENAY MATTHEW ; D ARTENAY MATTHEW D ; CONGER DEE L ; INNOVIVE LLC ; PERAZZO THOMAS ; MCGUFFIE FRANCESCA ; INNOVIVE INC ; PERAZZO THOMAS M

Assignee(s): INNOVIVE INC SAN DIEGO

Inventor(s):^(std): CONGER DEE L ; D ARTENAY MATTHEW D ; D ARTENAY MATTHEW ; PERAZZO THOMAS M ; PERAZZO THOMAS ; MCGUFFIE FRANCESCA ; ARTENAY MATTHEW D ; ARTENAY MATTHEW D D ; CANNELL ASA ; CONGER DEE

Inventor(s): ASA CANNELL ; CANNELL ASA ENCINITAS ; THOMAS PERAZZO ; MATTHEW D ARTENAY ; DEE CONGER ; FRANCESCA MCGUFFIE ; THOMAS M PERAZZO ; MATTHEW D D ARTENAY ; DEE L CONGER ; PERAZZO THOMAS SAN DIEGO ; PERAZZO THOMAS M SAN DIEGO ; MCGUFFIE FRANCESCA SAN DIEGO ; D'ARTENAY MATTHEW D ; CONGER DEE LA JOLLA ; D ARTENAY MATTHEW SAN DIEGO ; D ARTENAY MATTHEW D SAN DIEGO ; CONGER DEE L LA JOLLA

Agent(s): FB RICE; FB RICE PTY LTD; SMART AND BIGGAR; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; VOSSIUS AND PARTNER; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; BIOTECHNOLOGY LAW GROUP, C/O PORTFOLIOIP; BIOTECHNOLOGY LAW GROUP C O PORTFOLIOIP; GRANT ANDERSON LLP, C/O PORTFOLIOIP; GRANT ANDERSON LLP C O PORTFOLIOIP; GRANT ANDERSON LLP, C/O PORTFOLIOIP; GRANT ANDERSON LLP; GRANT IP INC; GRANT BRUCE ET AL

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 RS 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

International class
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A01K1/03 G01M1/38 G05B13/00 G05B15/00 G05B21/00 G05D23/00 (Advanced/Non-invention);
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CPC: A01K1/00 A01K1/031 A01K1/0356

European class: A01K1/035C A01K1/03A

US class: 1/1 119/416 119/417 119/417S 119/418 119/419 119/419S 119/420 119/420S 119/452 119/455 119/455S 119/456 119/456S 119/458 119/470 119/475 119/475S 119/482 119/482S 119/61.5 119/61.500P 119/72.5 119/72.500P 454/245 454/255 454/255P 454/61 700/276 700/278 700/301

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Abstract:

Source: US2006124072A Provided are animal containment systems and components, including single-use animal containment cages and modular rack units. Also provided are methods for assembling and using components of the animal containment systems.

26) Family number: 11355929 (WO9529105A1)

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Title: SELF-CARBONATING SELF-COOLING BEVERAGE CONTAINER

Priority: AU19950023884 19950419 AU19990023541 19990401 WO1995US04778 19950419
US19940230123 19940420

Family:	Publication number	Publication date	Application number	Application date
	<u>AP692 A</u>	19981111	AP19960000869	19950419
	<u>AP9600869 A0</u>	19961031	AP19960000869	19950419
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	<u>CA2188123 AA</u>	19961017	CA19952188123	19950419
	<u>CN1146186 A</u>	19970326	CN19951092664	19950419
	<u>EP0756566 A1</u>	19970205	EP19950917045	19950419
	<u>JP10502320 T2</u>	19980303	JP19950527724T	19950419
	<u>KR19970702202 A</u>	19970513	KR19960705951	19961018
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	<u>PL316983 A1</u>	19970303	PL19950316983	19950419
	<u>RU96122250 A</u>	19990320	RU19960122250	19961120
	<u>TW267145 B</u>	19960101	TW19950104637	19950510
	<u>WO9529105 A1</u>	19951102	WO1995US04778	19950419

Probable Assignee: HALIMI M E

Assignee(s):^(std): HALIMI EDWARD M ; HALIMI M E

Assignee(s): EDWARD M HALIMI

Inventor(s):^(std): HALIMI EDWARD M

Inventor(s): EDWARD M HALIMI

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MARKS AND CLERK

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 IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA UG UZ VN

International class
(IPC 8-9): B65D25/02 B65D77/24 B65D79/00 B65D81/18 B65D81/32 B65D83/72 B65D85/73 F25D3/08 F25D3/10 F25D9/00 H01L21/20 H01L21/324 H01L21/77 H01L21/84 H01L23/544 H01L29/04 H01L29/786 (Advanced/Invention);
B65D25/02 B65D79/00 F25D9/00 (Advanced/Non-invention);
B65D25/02 B65D79/00 B65D85/72 F25D3/10 F25D9/00 H01L21/02 H01L21/70 H01L23/544 H01L29/02 H01L29/66 (Core/Invention)

International class
(IPC 1-7): B65D25/02 B65D77/24 B65D79/00 B65D81/18 F25D03/10 F25D3/10 F25D9/00

CPC: B65D85/73 F25D3/107

European class: B65D79/00C B65D85/73 F25D3/10C

[Classification Explorer](#)

Cited documents: US4669273 A, US3881321 A, US3862548 A, US3077085 A, US2900808 A, DE3522639 A1,

Forward Citations: WO9919677, WO9828203, WO0110729, WO0102171, KR101342154, GB2332413, CN105620912, CN104302557,

Abstract:

There is disclosed a self-cooling self-carbonating beverage container including a beverage container (90) containing a liquid beverage, a coolant gas bottle (220) inside said beverage container storing pressurized carbon dioxide, a tab (140) located on an external portion of said beverage container and apparatus actuated by movement of said tab for opening said bottle to release said carbon dioxide into said liquid beverage.

0) US2006226110A – DRINK BOTTLES WITH BITE–ACTUATED MOUTHPIECES

27) Family number: 33473631 (US2006226110A)

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Title: DRINK BOTTLES WITH BITE–ACTUATED MOUTHPIECES

Priority: AU20060235383 20060410 AU20110201183 20110316 AU20120202351 20120420
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US20050313488 20051220 US20050670828P 20050411 US20050706700P 20050808
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US20160287915 20161007 EP20060749713 20060410 GB20070022018 20060410
WO2006US13410 20060410

Family:

Publication number	Publication date	Application number	Application date
AU2006235383 AA	20061019	AU20060235383	20060410
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WO06110707 C1	20070726	WO2006US13410	20060410	

Probable Assignee: CAMELBAK PRODUCTS LLC

Assignee(s):^(std): CHOI ROBERT ; FORSMAN BARLEY A ; GALTEN JEREMY ; CAMELBAK PRODUCTS LLC ; CAMEL BAK PRODUCTS LLC ; LLC CAMEL BAK PRODUCTS ; LLC CAMELBAK PRODUCTS

Assignee(s): COMPASS GROUP DIVERSIFIED HOLDINGS LLC ; CAMELBAK INT LLC ; JEREMY GALTEN ; ROBERT CHOI ; BANK OF AMERICA NA ; BARLEY A FORSMAN ; BNP PARIBAS

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Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; HARRISON GODDARD FOOTE; CAMENISCH ANDREW RICHARD; SAEZ ANA; KOLISCH HARTWELL PC; DASCENZO INTELLECTUAL PROPERTY LAW PC; DASCENZO INTELLECTUAL PROPERTY LAW

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

International class
(IPC 8-9): [B67D1/08](#) [A45F3/16](#) [A45F3/20](#) [A47G19/22](#) [A61J9/00](#) [B65D1/02](#) [B65D1/24](#) [B65D25/28](#) [B65D25/40](#) [B65D25/44](#) [B65D25/46](#) [B65D39/00](#) [B65D41/04](#) [B65D47/06](#) [B65D47/20](#) [B65D51/00](#) [B65D51/16](#) [B65D51/18](#) [B65D83/00](#) (Advanced/Invention); [A47G19/22](#) [B65D25/28](#) [B65D25/38](#) [B65D39/00](#) [B65D41/04](#) [B65D47/06](#) [B65D51/00](#) [B65D51/16](#) [B65D83/00](#) (Core/Invention); [A47G B65D](#) (Subclass/Invention)

CPC: [B65D47/065](#) [A47G19/22](#) [B65D39/00](#) [B65D51/00](#) [B65D51/16](#) [B65D83/00](#) [B65D25/40](#) [B65D25/44](#) [B65D25/46](#) [B65D47/06](#) [B65D47/061](#) [A47G19/2272](#) [A47G19/2266](#) [A45F3/20](#) [B65D47/066](#) [B65D47/2031](#)

European class: [A47G19/22](#) [A47G19/22B12](#) [B65D25/40](#) [B65D25/44](#) [B65D25/46](#) [B65D39/00](#) [B65D47/06](#) [B65D47/06A](#) [B65D47/06B](#) [B65D47/20E2](#) [B65D51/00](#) [B65D51/16](#) [B65D83/00](#)

US class: [1/1](#) [215/11.4](#) [215/228](#) [215/229](#) [215/381](#) [215/387](#) [215/388](#) [220/203.04](#) [220/203.040](#) [220/212](#) [220/212.5](#) [220/212.500](#) [220/254.3](#) [220/367.1](#) [220/367.100](#) [220/705](#) [220/707](#) [220/709](#) [220/714](#) [222/465.1](#) [222/490](#) [222/505](#)

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Forward Citations: WO17091582, WO15168701, WO15095307, WO15051231, WO14100168, WO10085367, USRE45055, USD801818, USD801174, USD800501, USD799320, USD797497, USD796903, USD795009, USD793154, USD786018, USD768491, USD767402, USD767337, USD760543, USD757496, USD756702, USD750428, USD749960, USD749956, USD748943, USD748478, USD748429, USD740605, USD736562, USD733497, USD732892, USD732392, USD732339, USD729569, USD727097, USD725966, USD725436, USD724384, USD721965, USD720184, USD719827, USD719780, USD719445, USD719444, USD716657, USD714147, USD707124, USD704986, USD701727, USD700807, USD700015, USD700014, USD700012, USD698657, USD697798, USD696551, USD696118, USD696079, USD691420, USD688093, USD686448, USD685606, USD683581, USD682034, USD669732, USD656403, USD653081, USD652256, USD649879, USD638299, USD636634, USD632522, USD627602, USD626838, USD626837, USD623896, USD623058, USD622149, USD611811, US9790007, US9782028, US9770125, US9724629, US9708107, US9643758, US9643141, US9624089, US9609969, US9573738, US9549605, US9534695, US9492024, US9470335, US9456710, US9439524, US9380898, US9375107, US9364110, US9314120, US9212067, US9162802, US9120598, US9113698, US9079205, US8978923, US8975596, US8939305, US8905252, US8851324, US8844746, US8833586, US8827099, US8820556, US8746496, US8727244, US8695830, US8672174, US8668106, US8662359, US8622236, US8602238, US8573431, US8505783, US8469226, US8464895, US8403173, US8360258, US8302804, US8225541, US8191727, US8011529, US7931166, US7913869, US7851775, US7819280, US2017144809, US2016150898, US2015173539, US2014353275, US2014061255, US2014061248, US2014048511, US2013140309, US2013112647, US2013081970, US2012228315, US2012187075, US2012181272, US2012125335, US2012024854, US2011284538, US2011198361, US2011174993, US2011167694, US2011089194, US2011062170, US2010228187, US2010181329, US2010133285, US2010127005, US2009314789, US2009301990, US2009065517, US2009065464, US2009039094, US2009026218, US2008053997, US2007090296, TWI468326, EP3045402, DE102007023235, CN106510361, CN105813507,

Abstract:

Source: US2006226110A Drink bottles, or containers, with bite-actuated mouthpieces. In some embodiments, the mouthpieces are self-sealing mouthpieces that are biased to return from a dispensing configuration to a closed configuration. The bottles may be rigid or collapsible and may include a removable cap assembly. In some embodiments, the bottles include a manual on/off valve adapted to prevent drink fluid from being dispensed regardless of the mouthpiece's configuration. In some embodiments, the bottles include a straw extending into the bottle and/or a drink tube extending from external of the bottle and/or an air return system. In some embodiments, the bottles include a dispensing spout that is pivotally coupled to the cap of the drink bottle. In some embodiments, the dispensing spout includes a mount for the mouthpiece and/or cooperates with the cap to provide a manual on/off valve to selectively restrict flow of drink fluid from the bottle regardless of the mouthpiece's configuration.

0) US2012100266A – CONTROL OF BUBBLE SIZE IN A CARBONATED LIQUID

28) Family number: 50961171 (US2012100266A)

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Title: CONTROL OF BUBBLE SIZE IN A CARBONATED LIQUID

Priority: AU20110318445 20110929 AU20150249132 20151029 CA20152815314 20150107
CA20112815314 20110929 CN201180057850 20110929 AU20170200845 20170208
US20100908622 20101020 WO2011US53819 20110929 US20140148037 20140106
EP20110776272 20110929 US20160080402 20160324

Family:

Publication number	Publication date	Application number	Application date
<u>AU2011318445 AA</u>	20120426	AU20110318445	20110929
<u>AU2011318445 BB</u>	20150806	AU20110318445	20110929
<u>AU2011318445 BI</u>	20151119	AU20110318445	20110929
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<u>AU2017200845 AA</u>	20170302	AU20170200845	20170208
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<u>CN103237742 B</u>	20150603	CN201180057850	20110929
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<u>CN104943938 B</u>	20170926	CN201510221846	20110929
<u>DE602011017738 D1</u>	20150820	DE201160017738T	20110929
<u>EP2630060 A1</u>	20130828	EP20110776272	20110929
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<u>RU2605902 C1</u>	20161227	RU20140152343	20110929
<u>US2012100266 AA</u>	20120426	US20100908622	20101020
<u>US2014117592 AA</u>	20140501	US20140148037	20140106
<u>US2016207695 AA</u>	20160721	US20160080402	20160324
<u>US9327462 BB</u>	20160503	US20140148037	20140106
<u>WO12054203 A1</u>	20120426	WO2011US53819	20110929

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LEFEVR DENIZ KH ; LIU WEI ; LJU VEJH ; LJU VEJ ; LUCAS JOHN MARK ; LUCAS

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PRASAD VUS ; LEE M NICHOLSON ; JOSHI PRASAD V PURCHASE ; JANKOWIAK
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; DENISE H LEFEBVRE

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STEPHEN; CARPINTERO MARIO; STERNE KESSLER GOLDSTEIN AND FOX PLLC;
ROKOS REBECCA P

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
LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE
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SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class B29C49/02 B29C49/12 B29C49/60 B29D22/00 B65D1/02 B65D17/00 B65D17/28
(IPC 8-9): B65D25/02 B65D25/38 B65D85/72 B65D85/73 (Advanced/Invention);
B29C49/08 B29C49/12 B29K67/00 (Advanced/Non-invention);
B65D (Subclass/Invention)

CPC: B29C49/08 B29C49/12 B29C2049/1228 B29K2067/003 B65D17/165 B65D25/02
B65D25/38 B65D2517/0049 B65D17/02 B65D1/023 B65D85/73 B29D22/003

European class: B65D17/16B2 B65D25/02 B65D25/38 B65D85/73 L65D517/00Y6A

US class: 1/1 264/531 264/532 264/532S 426/115 426/115P 426/131 426/131S

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CN2546177 Y, CN2340603 Y, CN1125387 A, CN1048350 A, CN1036186 A,
CN101616843 A,

Forward Citations: WO14027028, US9694328, US9604775, US2016158712, US2015217933,
US2010104715,

Abstract:

Source: US2012100266A Cans, bottles and/or other containers used to hold a carbonated beverage can include internal features to promote and/or control bubble formation.

0) US2004035818A – PLUG SEALS FOR USER-FRIENDLY CAP ASSEMBLIES

29) Family number: 29432739 (US2004035818A)

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Title: PLUG SEALS FOR USER-FRIENDLY CAP ASSEMBLIES

Priority: GB20000028346 20001121 GB20060005122 20060314 US20030432310 20030521
US20050283983 20051125 US20060093835 20061121 US20050283983 20051121
WO2006GB04345 20061121 WO2001GB05106 20011120

Family:

Publication number	Publication date	Application number	Application date
<u>AT306433 E</u>	20051015	AT20010983710T	20011120
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<u>US2004035818 AA</u>	20040226	US20030432310	20030521
<u>US2006108316 AA</u>	20060525	US20050283983	20051121
<u>US2009223922 AA</u>	20090910	US20060093835	20061121
<u>US7055710 BB</u>	20060606	US20030432310	20030521
<u>WO0242171 A1</u>	20020530	WO2001GB05106	20011120
<u>WO07057706 A1</u>	20070524	WO2006GB04345	20061121

Probable Assignee: BEESON AND SONS LTD

Assignee(s):^(std): BEESON AND SONS LTD ; BISAN EHND SANZ LTD ; KING ROGER M ; KING ROGER MILNER

Assignee(s): BEESON AND SONS LTD STOKE POGES ; BEESON AND SONS LIMITED

Inventor(s):^(std): KING ROGER M ; KING ROGER MILNER ; MILNER KING ROGER ; KING MILNER ; KING RODZHER MILNER ; ROGER MILNER KING

Inventor(s): KING ROGER

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; OGILVY RENAULT LLP SENCRL SRL; JAMES ANTHONY CHRISTOPHER WP ET AL; OHSHIMA MASATAKA; STEPHEN B SALAI ESQ HARTER SECREST AND EMERY 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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class
(IPC 8-9): B65D41/00 B65D41/04 B65D41/32 B65D41/34 B65D53/00 B65D53/02 (Advanced/Invention);
B65D41/00 B65D41/04 B65D41/34 B65D53/00 (Core/Invention)

International class
(IPC 1-7): B65D B65D41/04 B65D41/28 B65D41/34

CPC: B65D41/34 B65D41/04 B65D41/0407 B65D41/0414 Y10S215/01 B65D41/0471 B65D41/325 B65D41/0421

European class: B65D41/04 B65D41/04B B65D41/04B1 B65D41/04B1A B65D41/04E B65D41/32B B65D41/34

US class: 215/329 215/330 215/344 215/346 215/354 215/DIG.1

[Classification Explorer](#)

Cited documents: WO9944896 A2, WO9118799 A2, US7055710 BB, US6477823 BA, US6338414 BA, US6325226 BA, US5871111 A, US5803286 A, US5533633 A, US5454479 A, US5297688 A, US5275287 A, US5161707 A, US5145080 A, US4560077 A, US4442947 A, US4380304 A, US4289248 A, US4279353 A, US4241864 A, US3944104 A, US3844439 A, US3568871 A, US3532244 A, US3473685 A, US3428208 A, US3074579 A, US2006255003 AA, US2005051508 AA, US2004188375 AA, US2004060893 AA, US2002158037 AA, US2001027957 AA, JPS52132982, JP52132982 A2, GB2409200 A1, GB2369114 A1, GB2313115 A1, GB2308353 A1, GB2264108 A1, GB2131774 A1, GB2022063 A1, GB1169250 A, GB1027844 A, FR2342909 A2, FR2340865 A1, FR2327930 A1, DE4207997 A1,

Forward Citations: WO15194040, WO15193971, WO11070326, WO10086609, WO07147206, WO07057706, WO05039996, WO03004373, USD621707, USD621706, USD621705, US9611089, US9428292, US8596477, US8535743, US8506804, US8376164, US8091724, US8070957, US8056744, US7993071, US7963419, US7942287, US7850029, US2015027976, US2014144825, US2012273452, US2012241454, US2012037589, US2010193464, US2009107997, US2008169262, US2008101856, US2008017642, US2007205196, US2007187352, US2006108316, US2005284837, TWI570034, TWI568646, JP5683492, JP2012516272, GB2476089, GB2467355, GB2417240, GB2417240, GB2409200, GB2409200, EP2800710, EP2319774, EP1627821, CN103003164, CN103003164, CN102040038, AU2010209515, AU2005273646,

Abstract:

Source: US2004035818A The invention provides a container closure (2) assembly comprising: a container neck (1) having side walls defining an opening at one end thereof and a lip (5) extending around the opening, wherein an inner surface (7) of the side walls proximate to said lip (5) is inwardly tapered; a closure (2) for said neck (1), the closure (2) having a base portion (3) and a skirt portion; a first screw thread on the neck (1); a second screw thread on an inner surface (7) of the skirt of the closure (2); said first and second screw threads being configured to enable a user to secure, remove and resecure the closure (2) into a sealing position on the neck (1) by rotation of the cap on the neck (1); a sealing plug (8) extending from said base portion (3) of the closure (2) inside and substantially concentric with said skirt portion of the closure (2), wherein the sealing plug (8) comprises a plurality of circumferential sealing ribs (9) on an outer surface of said sealing plug (8) for engagement with said inner surface (7) of the container neck (1) when the closure (2) is secured on the container neck (1); at least one flexible sealing fin (10, 11) between the sealing plug (8) and the closure (2) skirt for engagement with the lip (5) of the container when the closure (2) is secured on the container neck (1); and at least one circumferential sealing (14) rib on an inner surface of said closure (2) for engagement with an outer surface of the container neck (1)

proximate to said lip (5) when the closure (2) is secured on the container neck (1). The assembly is especially suitable for forming gas-tight seals on carbonated beverage containers.

30) Family number: 34371107 (US2009180923A)

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Title: SELF-MIXING CONTAINER WITH A RELEASABLE INTERNAL VESSEL AND ITS USAGE
Priority: CN200620095128U 20060117 CN200620096721U 20060517 WO2007CN00158 20070116
 CN200620098537U 20060816 WO2007CN000158 20070116 WO2007CN000158 20070116

Family:

Publication number	Publication date	Application number	Application date
<u>AT488447 E</u>	20101215	AT20070702090T	20070116
<u>AU2007207249 AA</u>	20070726	AU20070207249	20070116
<u>AU2007207249 BB</u>	20100812	AU20070207249	20070116
<u>BRPI0707158 A2</u>	20110426	BR2007PI07158	20070116
<u>CA2635693 AA</u>	20080627	CA20072635693	20070116
<u>CA2635693 C</u>	20120522	CA20072635693	20070116
<u>CN101360659 A</u>	20090204	CN200780001593	20070116
<u>CN101360659 B</u>	20100602	CN200780001593	20070116
<u>CN2880726 Y</u>	20070321	CN200620095128U	20060117
<u>CN2905050 Y</u>	20070530	CN200620096721U	20060517
<u>DE602007010586 D1</u>	20101230	DE200760010586T	20070116
<u>EP1975080 A1</u>	20081001	EP20070702090	20070116
<u>EP1975080 A4</u>	20090415	EP20070702090	20070116
<u>EP1975080 B1</u>	20101117	EP20070702090	20070116
<u>IN05668DN2008 A</u>	20080926	IN2008DN05668	20080630
<u>IN267792 B</u>	20150807	IN2008DN05668	20080630
<u>JP2009523664 T2</u>	20090625	JP20080550614T	20070116
<u>JP4825880 B2</u>	20111130	JP20080550614T	20070116
<u>KR101074105 B1</u>	20111017	KR20087020120	20080818
<u>KR20080094700 A</u>	20081023	KR20087020120	20070116
<u>RU2371364 C1</u>	20091027	RU20080133468	20070116
<u>US2009180923 AA</u>	20090716	US20070160294	20070116
<u>US8328032 BB</u>	20121211	US20070160294	20070116
<u>WO07082464 A1</u>	20070726	WO2007CN00158	20070116

Probable Assignee: GONG KSIAO**Assignee(s):^(std):** GONG KSIAO ; GONG XIAO ; XIAO GONG**Inventor(s):^(std):** GONG KSIAO ; GONG XIAO ; XIAO GONG

Agent(s): FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS PATENT ATTORNEY S; FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; SHAPIRO COHEN; MEHLER KLAUS ET AL; MEHLER KLAUS; NEIFELD IP LAW PC

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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
 (IPC 8-9): A01N61/00 A61J1/00 A61J1/05 A61J1/14 A61K31/00 B65D41/28 B65D41/62 B65D47/00 B65D47/06 B65D51/28 B65D81/32 B67C7/00 (Advanced/Invention);
B65D41/28 B65D51/28 B65D81/32 B67C7/00 (Advanced/Non-invention);
A01N61/00 A61J1/00 A61J1/05 A61J1/14 A61K31/00 B65D41/00 B65D41/02 B65D47/06 B65D51/24 B65D81/32 B67C7/00 (Core/Invention)

International class
 (IPC 1-7): B65D51/28

CPC: B01F15/0205 B01F15/0224 B65D51/18 B65D51/2885 B65D2251/0015 B65D2251/0059 B65D2251/009

European class: B01F15/02B20D B01F15/02B6 B65D51/18 B65D51/28B2C L65D251/00Y2D L65D251/00Y4K L65D251/00Y6K

US class: 206/219 215/227 215/DIG.8 422/14 422/14P 514/1 514/1S

[Classification Explorer](#)

Cited documents: WO06004345 A1, WO05001109, US6047818 A, US4903828 A, US4793475, US4618444 A, US4386696 A, US4132308 A, JP61178852, JP2004352302 A2, JP2004323097 A2, JP2000095278 A2, JP10273161 A2, GB2298406 A1, EP1975080 A1, EP0190593 B1, EP0190593 A2, CN95244597, CN2805767 Y, CN2619926 Y, CN2249214 Y, CN2191839 Y,

Forward Citations: WO15169824, WO15149126, WO11034981, WO11034981, US8931665, US8915371, US8453834, US8453833, US8328032, US2013263424, CN104848964, CN103801147, CN103801147, CN102431728, CN101830420,

Abstract:

Source: US2009180923A This application relates to a self-mixing container with a releasable internal vessel and its usage, wherein said self-mixing container comprises a container body, a double-walled external cap and an internal vessel, and through a corresponding production line, assembling of the self-mixing container with a releasable internal vessel will be realized. The invention makes it possible to pack and seal in a cold filling process at least two different materials in one and the same container body respectively. When in use, at least two kinds of materials are mixed and formulated in one and the same container body in a rapid and automatic way, by means of relative movement of the screw-threads by which the container body, the double-walled external cap and the internal vessel are coupled with each other, and engagement of the ratchet and the pawls, without the structure of the container body being damaged, so that initial fresh active components in the materials sealed therein are preserved, and rapid formulation is achieved. Furthermore, the structure is simple, durable and has a low fabrication cost, and it can be used without great effort or time, especially can be used conveniently when carried on, and it can be broadly applied to pharmaceutical, food and beverage, chemical, farm chemical, disinfectants, or fire-fighting equipments field.

31) Family number: 43121238 (US2012037589A)

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Title: CONTAINER CLOSURE ASSEMBLY WITH PRESSURE SEAL**Priority:** EP20100703089 20100128 GB20090001572 20090130 WO2010GB00140 20100128
US20110146782 20111014 US20160299294 20161020**Family:**

Publication number	Publication date	Application number	Application date
<u>AU2010209515 AA</u>	20100805	AU20100209515	20100128
<u>AU2010209515 BB</u>	20160505	AU20100209515	20100128
<u>BRPI1007158 A2</u>	20160223	BR2010PI07158	20100128
<u>CA2750878 AA</u>	20100805	CA20102750878	20100128
<u>CN102333705 A</u>	20120125	CN201080005867	20100128
<u>CY1114828 T1</u>	20161214	CY20131100970T	20131101
<u>DE602010010524 D1</u>	20131121	DE201060010524T	20100128
<u>DK2391555 T3</u>	20131021	DK20100703089T	20100128
<u>EP2391555 A1</u>	20111207	EP20100703089	20100128
<u>EP2391555 B1</u>	20130925	EP20100703089	20100128
<u>ES2438500 T3</u>	20140117	ES20100703089T	20100128
GB200901572 A0	20090311	GB20090001572	20090130
<u>GB2467355 A1</u>	20100804	GB20090001572	20090130
<u>HK1163635 A1</u>	20140516	HK20120104509	20120509
<u>JP2012516272 T2</u>	20120719	JP20110546950T	20100128
<u>JP5683492 B2</u>	20150311	JP20110546950T	20100128
<u>MX2011007935 A1</u>	20110906	MX20110007935	20100128
<u>PT2391555 I</u>	20131209	PT20100703089T	20100128
<u>RU2011135981 A</u>	20130310	RU20110135981	20100128
<u>RU2513775 C2</u>	20140420	RU20110135981	20100128
<u>US2012037589 AA</u>	20120216	US20100146782	20100128
<u>US2017036824 AA</u>	20170209	US20160299294	20161020
<u>WO10086609 A1</u>	20100805	WO2010GB00140	20100128

Probable Assignee: BEESON and SONS LTD**Assignee(s):^(std):** BEESON and SONS LTD ; BISAN EHND SANZ LTD ; KING ROGER MILNER**Assignee(s):** BEESON AND SONS LTD STOKE POGES ; BEESON AND SONS LIMITED**Inventor(s):^(std):** KING ROGER MILNER ; MILNER KING ROGER ; KING RODZHER MILNER**Inventor(s):** ROGER MILNER KING**Agent(s):** FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; NORTON ROSE OR SENCRL SRL LLP; MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; JAMES ANTHONY CHRISTOPHER WP; IZQUIERDO JOSE; OHSHIMA MASATAKA; JAMES ANTHONY CHRISTOPHER W P**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 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 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**International class**
(IPC 8-9): B65D1/02 B65D41/04 B65D41/34 (Advanced/Invention);
B65D41/04 (Core/Invention);
B65D (Subclass/Invention)**CPC:** B65D41/0421 B65D41/0471 B65D2101/003 B65D1/0246

European class: B65D41/04B1A B65D41/04E L65D101/00A3B

US class: 215/329 426/590

[Classification Explorer](#)

Cited documents: WO9944896 A2, WO9919228 A1, WO9835881 A1, WO9721602 A2, WO9505322 A1, WO9411267 A2, WO9301098 A2, WO9118799 A2, WO200757706, WO08012426 A2, WO07132254 A1, WO07057706 A1, WO07057706, WO05058720 A1, WO0242171 A1, US7055710 BB, US5871111 A, US2004060893 AA, US2002158037 AA, US2002074306 AA, US2001027957 AA, JP60120936 U1, JP60120936 U, JP60120936 U, JP2002173157 A2, JP2002173157, JP2001511744 T2, JP2001511744, GB2432360 A1, GB2131774 A1, EP1627821 A1, EP0076778 A1,

Forward Citations: WO15061892, WO14184597, WO13147599, US9611079, US9428292, US9145237, US8998012, US2011031734, NL2008558, JP6198392, JP2014125250, AT517990,

Abstract:

Source: US2012037589A A container closure assembly includes a container neck having an opening at one end, a lip extending around the opening; a cap for said neck, the cap having a base portion and a threaded skirt; a screw thread on the neck; a screw thread on an inner surface of the threaded skirt of the cap; the screw threads enabling a user to secure, remove and resecure the cap into a sealing position on the neck; an olive sealing plug extending from the cap inside and substantially concentric with said threaded skirt portion of the cap, the sealing plug forming a seal against an inside surface of the neck; and a sealing skirt extending from said base of the cap intermediate said sealing plug and said threaded skirt portion of the cap and concentric with said sealing plug and said threaded skirt portion of the cap, wherein said cap can be displaced towards said neck from said sealing position by application of an axial force without rotation of the cap on the neck and substantially without plastic deformation of the cap.

32) Family number: 55303146 (US2013319253A)

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Title: BEVERAGE AERATION

Priority: AU20130267901 20130319 AU20170213476 20170809 US20120484643 20120531
 NZ20130627302 20130319 NZ20130721846 20130319 EP20130716096 20130319
 WO2013US32959 20130319 US20160046657 20160218

Family:	Publication number	Publication date	Application number	Application date
	<u>AR091215 AA</u>	20150121	AR2013P101903	20130530
	<u>AU2013267901 AA</u>	20131205	AU20130267901	20130319
	<u>AU2013267901 BB</u>	20170629	AU20130267901	20130319
	<u>AU2017213476 AA</u>	20170831	AU20170213476	20170809
	<u>CA2861331 AA</u>	20140714	CA20132861331	20130319
	<u>CL2014003186 A1</u>	20150320	CL20140003186	20141124
	<u>CN104066499 A</u>	20140924	CN201380007199	20130319
	<u>CN104066499 B</u>	20170915	CN201380007199	20130319
	<u>CO7010816 A2</u>	20140731	CO20140158744	20140722
	<u>EP2855001 A1</u>	20150408	EP20130716096	20130319
	<u>EP2855001 B1</u>	20170719	EP20130716096	20130319
	<u>EP3241605 A1</u>	20171108	EP20170174492	20130319
	<u>ID201600388 A</u>	20160212	ID2014P0004083	20130319
	<u>MX2014011425 A1</u>	20141125	MX20140011425	20130319
	<u>NZ627302 A</u>	20160826	NZ20130627302	20130319
	<u>NZ721846 A</u>	20170331	NZ20130721846	20130319
	<u>NZ726693 A</u>	20170331	NZ20130726693	20130319
	<u>PE00102015 A1</u>	20150128	PE20140001771	20130319
	<u>PH2014501571 A</u>	20141008	PH20140501571	20140708
	<u>RU2014153108 A</u>	20160720	RU20140153108	20130319
	<u>SG11201407717Y A1</u>	20141230	SG20141107717	20130319
	<u>TH147902 A</u>	20160321	TH20141004796	20130319
	<u>TW201350391 A</u>	20131216	TW20130118614	20130527
	<u>US2013319253 AA</u>	20131205	US20120484643	20120531
	<u>US2016158712 AA</u>	20160609	US20160046657	20160218
	<u>US9283526 BB</u>	20160315	US20120484643	20120531
	<u>US9694328 BB</u>	20170704	US20160046657	20160218
	<u>WO13180825 A1</u>	20131205	WO2013US32959	20130319

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER**Assignee(s):^(std):** OWENS BROCKWAY GLASS CONTAINER ; OWENS BROCKWAY GLASS CONTAINER INC ; SMITH ROGER P**Assignee(s):** OWENS BROCKWAY GLASS CONTAINER INCONE MICHAEL OWENS WAYPERRYSBURGOH43551US**Inventor(s):^(std):** SMITH ROGER P**Inventor(s):** SMITH ROGER PUS ; ROGER P SMITH**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON AND LANGLOIS LTDA; JUAN PABLO CADENA SARMIENTO; BLUMBACH ZINNGREBE; SMITH SUSAN L**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

International class A23L2/54 B01F3/00 B01F3/04 B65B1/04 B65D1/02 B65D23/04 B65D39/00 B65D85/72
(IPC 8-9); B65D85/73 (Advanced/Invention);
B01F3/04 (Core/Invention)

CPC: B01F3/04751 B01F2215/0072 B01F3/04794 B65D1/023 B65D39/0005 B65D85/72
B01F3/04737

US class: 1/1 261/108 29/428 426/115 53/473 99/323.1

[Classification Explorer](#)

Cited documents: USD635823 S1, USD633745 S1, US6568660 BA, US4193524 A, US3091373 A,
US2016176589 AA, US2015203235 AA, US2015096913 AA, US2012298532 AA,
US2012100266 AA, US2012074092 AA, US2012074091 AA, US20120074091,
US2011024461 AA, US2010264107 AA, US2010098816 AA, US2010091605 AA,
US2009324429 AA, EP2855001 A1, EP1716917 A1, DE20119154 U1, CN101421026 A,

Forward Citations: WO16090374, USD799894, USD798711, USD797560, US8783665, US2016221718,
US2014263461, US2014120226, EP3241605, CN104117320,

Abstract:

Source: US2013319253A A beverage package including a bottle including a base, a sidewall extending from the base, a shoulder extending from the sidewall, and a neck extending from the shoulder and including an interior, an interior surface, and a mouth having an end surface. The beverage package also includes an aerator separate from the bottle, extending across the interior of the bottle neck, and disposed entirely within the interior of the neck and spaced axially from the end surface of the bottle neck, and including an inlet end, an outlet end axially spaced from the inlet end, an outer wall in contact with the interior surface of the bottle neck, and a baffle disposed radially inwardly of the outer wall and axially between the inlet and outlet ends.

33) Family number: 31748407 (US2001045368A)

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Title: Wafer packaging device for disc-shaped items and related materials and method for packaging such discs and material

Priority: AU19990060423 19990923 AU20040200524 20040211 AU20080202286 20080523
 US20000565342 20000505 US19980161064 19980925 NZ19990510717 19990923
 US20000627593 20000728 US20000565396 20000505 US20000702266 20001031
 US20000627597 20000728 US20000565343 20000505 US20000627594 20000728
 US20010916853 20010727 US20010916852 20010727 US20040966126 20041015
 US20020219358 20020815 US20020219355 20020816 US20010950721 20010912
 US20020154316 20020522 US20020219357 20020815 US20020154317 20020522
 US20010950732 20010912 US20020154320 20020522 US20020155264 20020524
 US20010950847 20010912 US20010950846 20010912 US20010917317 20010728
 US20010917316 20010728 US20010916870 20010727 US20010916871 20010727
 WO2001US14406 20010504 WO1999US21261 19990923 WO2002US23757 20020726

Family:

Publication number	Publication date	Application number	Application date
AT361884 E	20070615	AT19990969702T	19990923
AU199960423 A1	20000417	AU19990060423	19990923
AU199960423 A5	20000417	AU19990060423	19990923
AU2001259463 AA	20011120	AU20010259463	20010504
AU2002322677 AA	20030217	AU20020322677	20020726
AU2004200524 AA	20040311	AU20040200524	20040211
AU20080202286 AA	20080612	AU20080202286	20080523
AU771585 B2	20040325	AU19990060423	19990923
BRPI0211501 A	20040914	BR2002PI11501	20020726
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Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BLAKE CASSELS AND GRAYDON LLP; WOLFF BREGMAN AND GOLLER; GREGORY J BATTERSBY ESQ GRIMES AND BATTERSBY LLP; GRIMES AND BATTERSBY LLP

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

International class
(IPC 8-9): [B65D1/36](#) [B65D25/08](#) [B65D25/10](#) [B65D51/24](#) [B65D51/28](#) [B65D77/08](#) [B65D77/24](#) [B65D85/00](#) [B65D85/57](#) [G11B23/03](#) [G11B33/04](#) (Advanced/Invention); [B65B7/28](#) [B65D25/10](#) [B65D85/00](#) [B65D85/57](#) [G11B23/03](#) (Advanced/Non-invention); [B65D25/04](#) [B65D51/24](#) [B65D77/00](#) [B65D77/24](#) [B65D85/57](#) [G11B23/03](#) [G11B33/04](#) (Core/Invention)

International class
(IPC 1-7): [A63H3/00](#) [B65B7/28](#) [B65D25/10](#) [B65D51/28](#) [B65D69/00](#) [B65D71/00](#) [B65D77/08](#) [B65D85/00](#) [B65D85/02](#) [B65D85/28](#) [B65D85/30](#) [B65D85/57](#) [G11B23/03](#)

CPC: [B65D25/08](#) [B65D51/24](#) [B65D51/28](#) [B65D77/24](#) [G11B33/0422](#) [G11B33/0427](#) [G11B33/045](#) [G11B33/0444](#)

European class: [B65D25/08](#) [B65D51/24](#) [B65D51/28](#) [B65D77/24](#) [G11B33/04D1B](#) [G11B33/04D1B1](#) [G11B33/04D2B](#) [G11B33/04D2B1](#)

US class: [206/214](#) [206/216](#) [206/217](#) [206/232](#) [206/303](#) [206/303S](#) [206/307](#) [206/308.1](#) [206/308.100P](#) [206/308.100S](#) [206/310](#) [206/445](#) [206/445S](#) [206/493](#) [206/736](#) [215/227](#) [215/229](#) [220/505](#) [220/521](#) [220/522](#) [224/220](#) [224/604](#) [224/674](#) [281/31](#) [446/73](#) [446/73S](#) [53/410](#) [53/420](#) [53/471](#) [53/471S](#) [53/474](#) [534/100](#) [G9B/033.014](#) [G9B/33.01](#) [G9B/33.011](#) [G9B/33.014](#) [G9B/33.014S](#) [G9B/33.015](#)

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Abstract:

Source: US2001045368A An elongated packaging device is provided for packaging at least one disc-shaped item such as, for example, a recording media disc such as a CD, a CD-ROM or a DVD, together with other materials relating to such disc or otherwise in a stacked relationship. The packaging device includes a first member or wafer for the storage of disc-shaped media in a first chamber and a second member or container for the storage of a beverage in a second chamber, which container is sealed by a cover having an opening at the center thereof for the insertion of a straw. The first chamber is an annular inner chamber for receiving the disc media and includes a cylindrical inner structure defining central support for the disc media by means of the annular opening at the center thereof, such that the disc media is allowed to rotate, while limiting the linear movement of the disc media both perpendicular to and parallel to the plane of the media. The inner structure includes an aperture therethrough, which aperture aligns with the opening of the cover when the wafer is in place on the cover. The disc-shaped media is sealed within the annular inner chamber of the wafer by means of a circular protective element which engages the cylindrical inner structure and the perimeter of the wafer, thereby preventing the passage of any substance into the inner chamber of the wafer. In the preferred embodiment, the protective element is heat-sealed to the inner structure and perimeter of the wafer, although other attachment means, such as adhesives, or sealing compression fits, are contemplated. A means for penetration is disposed in the center of the protective element such that the penetration means is aligned with the aperture through the inner structure such that a straw may be inserted through the means for penetration, the aperture in the inner structure and the opening in the cover in order to gain access to the beverage. In the preferred embodiment, the means for penetration comprises an "X" shaped incision known as a "kiss cut." A method is further provided for packaging such disc-shaped item and other material within the packaging device.

34) Family number: 52204929 (US2014305818A)

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Title: APPARATUS FOR RECEIVING HETEROGENEOUS MATERIALS

Priority:

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Family:

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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 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

International class
(IPC 8-9): A61J1/05 B29C45/14 B29C45/16 B29C49/00 B65D1/02 B65D25/08 B65D25/40 B65D41/04 B65D41/14 B65D41/32 B65D47/06 B65D51/18 B65D51/20 B65D51/22 B65D51/24 B65D51/28 B65D53/02 B65D75/38 B65D81/32 B65D85/00 (Advanced/Invention)

CPC: B29C45/1676 B65D51/2821 B65D1/0238 B65D1/0246 B65D53/02 B65D81/3283 B65D2501/0054 B65D51/2842 B65D51/2864 B65D51/2835 B65D51/285 B65D51/28 B65D25/40 B65D47/06 B65D81/32 B65D25/08 B65D51/20 B65D51/24 B65D41/14 B65D51/22 A61J1/05 B65D41/04 B29C45/14 B29C45/16 B65D75/38 B65D85/00 B65D51/18 B65D41/32 B65D51/2814 B65D51/245 B29C45/0081 B29C66/72321 B29C66/72343 B29K2083/00 B29L2031/565 B29L2031/712 B65D41/3423 B65D55/06 B65D81/3222 B65D85/72 B65D41/62 B65D81/3211 B65D51/002 B65D51/221 B65D53/04

US class: 206/219 206/221 206/222

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Forward Citations: WO17114583, WO17039424, WO17039423, WO16163815, WO16068612, US9708109, US2017129665, KR20160073457, KR101723959, KR101635810, EP3228559, EP3169599, CN105861278, CN105173418, CN104555057, CN103600906,

Abstract:

Source: US2014305818A An apparatus containing heterogeneous materials which is coupled to a mouth part of a container containing contents such as liquid or the like, comprises a main body to be coupled and fixed to the mouth part of the container; and an accommodating part having a storage space formed inside of the main body, wherein an upper foldable connecting part of the inner storage space of the accommodating part and an opening formed below the foldable connecting part break an accommodating part sealing part which seals the lower end of the accommodating part, thereby allowing the contents of the storage space of the accommodating part to drop down into the container to be mixed. An opening is formed at the bottom of the upper portion of the foldable connecting part and the foldable connecting part is formed between the opening and the main body, wherein a soft foldable part is formed at the top or bottom of the foldable connecting part.

35) Family number: 55763163 (US2014041338A)

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Title: RESEALABLE BEVERAGE CONTAINERS AND METHODS OF MAKING SAME

Priority: CN201380042019 20130808 US20120572404 20120810 US20130787012 20130306
US20150665102 20150323 US20160056216 20160229 US20140491268F 20140519
WO2013US54210 20130808 US20160560269F 20160405

Family:	Publication number	Publication date	Application number	Application date
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	<u>AU2013299540 AA</u>	20140213	AU20130299540	20130808
	<u>AU2013299540 BB</u>	20170817	AU20130299540	20130808
	<u>CA2881397 AA</u>	20150206	CA20132881397	20130808
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	<u>US2014041338 AA</u>	20140213	US20120572404	20120810
	<u>US2014042164 AA</u>	20140213	US20130787012	20130306
	<u>US8844761 BB</u>	20140930	US20120572404	20120810
	<u>US8985371 BB</u>	20150324	US20130787012	20130306
	<u>US9272819 BA</u>	20160301	US20150665102	20150323
	<u>US9637269 BA</u>	20170502	US20160056216	20160229
	<u>USD752978 S1</u>	20160405	US20140491268F	20140519
	<u>USD795693 S1</u>	20170829	US20160560269F	20160405
	<u>WO14026047 A1</u>	20140213	WO2013US54210	20130808
	<u>WO17151419 A1</u>	20170908	WO2017US19274	20170224

Probable Assignee: POWERCAN HOLDING LLC

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POWERCAN HOLDINGS LLC ; ZABALETA DANIEL ; ZABELETA DANIEL A

Inventor(s):^(std):

BULSO JOSEPH D ; HACKETT SAM D ; HIBBS JR WILLIAM ALLEN ; LIVEZEY DANIEL EDWARD ; SAM HACKETT ; ZABALETA DANIEL A A ; ZABELETA DANIEL A ; ZABALETA DANIEL A ; HACKETT SAM

Inventor(s): HIBBS JR

Agent(s): BELYEA IP; ADE AND CO INC; ROMANO GIUSEPPE; SURYANA I SUGANDA SE MM; KUSNO HADI KUNCORO SSI; ALLEN D; ALLEN D HERTZ PA; HERTZ ALLEN D

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 LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): B21D51/38 B21D51/44 B65B3/02 B65B69/00 B65D17/00 B65D17/28 B65D17/34 B65D17/42 B65D17/44 B65D39/08 B65D39/10 B65D41/04 B65D41/28 B65D41/32 B65D41/36 B65D47/36 B65D51/00 B65D51/16 B65D51/18 B65D51/22 (Advanced/Invention); B65D35/24 (Advanced/Non-invention); B21D51/38 B65D17/34 (Core/Invention); B21D B65D (Subclass/Invention)

CPC: B65D17/161 B65D2517/0011 B65D2517/0056 B65D2517/0074 B65D2517/0092 B65D2517/0098 B65D35/24 Y10S220/906 B65D17/166 B65D41/365 B65D2517/002 B65D2517/0043 B65D2517/0062 B65D2517/0082 B65D2517/5091 Y02W30/807 B65D41/04 B65D51/007 B65D51/1677 B65D51/222 B65D2517/0097 B65D41/32 B65D2251/0015 B65D2517/0041 B65D47/243 B65D47/305 B65D39/10 B65D17/18 B65D39/084 B65D39/088 B65D47/065 B65D47/2031 B65D51/002 B65D2231/022 B65D2251/0012 B65D2251/0071 B65D2251/0075 B65D2251/023 B65D2517/0046 B65D2517/0049 B21D51/44 B65D41/28

US class: 1/1 220/254.8 220/258.4 220/258.5 220/260 220/265 220/266 220/267 220/270 220/277 220/278 220/284 220/293 220/298 220/711 220/906 222/541.2 222/81 413/1 53/412 53/485 D9/435 D9/454

Locarno class: 09/07

[Classification Explorer](#)

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US2011062106 AA, US2011056945 AA, US2011036840 AA, US2011036839 AA, US2010320207 AA, US2010320207, US2010294768 AA, US2010133275 AA, US2010126992 AA, US2009261101 AA, US2009200306 AA, US2009045158 AA, US2009026201 AA, US2008237235 AA, US2008110922 AA, US2008099480 AA, US2008053997 AA, US2007170184 AA, US2007045318 AA, US2005279746 AA, US2005150889 AA, US2005127077 AA, US2005115969 AA, US2005029264 AA, US2004964 A, US2004256386 AA, US2004159662 AA, US2003213803 AA, US2003213709 AA, US2003116521 AA, US2002030053 AA, US2001040167 AA, JP5305944 A2, JP5305944, JP2003246344 A2, JP2003246344, EP2555988 A1, EP2212215 B1, EP0414249 A2, DE19613256 A1, CN2344317 Y, CN202201303 U, CN201564310 U, CN201367165 Y, CN1244846 A, CN101910010 A, CA476789 A,

Forward Citations: WO17007042, WO16193466, USD795693, USD787952, USD786071, USD752978, USD751920, USD751919, USD734092, US9637269, US9493284, US9073655, US2017146470, US2017079405, US2015274391, US2013264342, KR101678832, JP5938509,

Abstract:

Source: US2014041338A Resealable beverage containers include caps that are twisted to impart translational motion of the cap to push a tear panel into the container. Cam elements are used to convert rotational movement to translational movement. The caps are preferably made of molded plastic material, and include cam elements formed on the sidewalls of the caps that engage cam followers or projections formed on the inner cylindrical surface of a socket which is formed in the lid of the beverage container. Methods of manufacturing resealable beverage containers avoid the need to form rivets and to attach pull tabs, thus saving costs and making the beverage containers more easily recycled.

36) Family number: 29502100 (US2005056613A)

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Title: USER-FRIENDLY BOTTLE AND CLOSURE THREAD ASSEMBLY**Priority:** GB20010027836 20011120 WO2002GB05183 20021119 WO2002GB05184 20021119**Family:**

Publication number	Publication date	Application number	Application date
AT307065 E	20051115	AT20020779692T	20021119
AT307767 E	20051115	AT20020777555T	20021119
AU2002339179 AA	20030610	AU20020339179	20021119
AU2002339179 BB	20080821	AU20020339179	20021119
AU2002343032 AA	20030610	AU20020343032	20021119
AU2002343032 BB	20081120	AU20020343032	20021119
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CA2467153 C	20110315	CA20022467153	20021119
CA2467157 AA	20040513	CA20022467157	20021119
CA2467157 C	20100928	CA20022467157	20021119
CN100408441 C	20080806	CN20028027141	20021119
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DE60206794 D1	20060302	DE20026006794	20021119
DE60206794 T2	20060727	DE20026006794T	20021119
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US2005082249 AA	20050421	US20020496050	20021119
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US7246713 BB	20070724	US20020496054	20021119
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WO03045806 A1	20030605	WO2002GB05184	20021119

Probable Assignee: BEESON AND SONS LTD

Assignee(s):^(std): BEESON AND SONS LTD ; BISAN EHND SANZ LTD ; KING ROGER MILNER

Assignee(s): BEESON AND SONS LIMITED ; BEESON AND SONS LTD RICKMANSWORTH ; BEESON AND SONS LTD STOKE POGES ; BISAN EHND SANZ LIMITED

Inventor(s):^(std): ROGER MILNER KING ; KING ROGER M ; MILNER KING ROGER ; KING ROGER MILNER ; KING RODZHER MILNER

Inventor(s): KING ROGER

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE OR SENCRL SRL LLP; STEPHEN B SALAI ESQ HARTER SECREST AND EMERY LLP; BRIAN B; STEPHEN B; HARTER SECREST AND EMERY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU 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

International class
(IPC 8-9): [A47G19/22 B65D41/04 B65D41/34 B65D51/16](#) (Advanced/Invention);
[A47G19/22 B65D41/04 B65D41/34 B65D51/16](#) (Core/Invention)

International class
(IPC 1-7): [A47G A47G19/22 B65D B65D41/04 B65D41/34 B65D41/36 B65D51/16](#)

CPC: [B65D41/045 B65D41/0471 B65D41/3428 B65D51/1688](#)

European class: [B65D41/04D2 B65D41/04E B65D41/34C1 B65D51/16E3](#)

US class: [215/307 215/329 215/330 220/196 220/296](#)

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Cited documents: US6227391 BA, US6015054 A, US6006930 A, US5967352 A, US4953728 A, US4739890 A, US4032028 A, US3880314 A, US3612324 A, US1612449 A, US1158073 A, GB2330133 A1, GB2319513 A1, GB2318574 A1, GB2311285 A1, GB2138574 A1, GB1343572 A,

Forward Citations: WO15186153, WO14033619, WO14033619, WO11123219, WO11070326, WO06018660, WO06018660, WO05049439, USD798419, USD770593, USD768820, USD758537, USD740393, US9782785, US9782784, US9764877, US9764102, US9623996, US9533317, US9409197, US9327301, US9126726, US8925836, US8714380, US8672159, US8608009, US8528759, US8141793, US8091724, US7942287, US2013319968, US2013248530, US2012298682, US2011309105, US2011024420, US2011024382, US2011011947, US2009084751, US2008308555, US2007267384, JP6201048, JP4836953, JP2015503936, JP2015186153, JP2011502889, JP2008184219, GB2417240, GB2417240, GB2409200, GB2409200, FR2951702, EP3075677, EP1533240, DE202008014389, CN105310411, CN104939604, CN104428210, CN104071409, CN104071408, CN102407972, AU2005273646,

Abstract:

Source: US2005056613A The invention provides a threaded container closure assembly includes: a container

neck having an opening; a closure for said neck, the closure having a base portion and a skirt portion; a first screw thread on the neck, said first screw thread comprising one or more first thread segments; a second screw thread on an inner surface of the skirt of the closure, said second screw thread comprising one or more second screw thread segments; said first and second screw threads being configured to enable a user to secure, remove and resecure the closure into a sealing position on the neck by rotation of the closure on the neck; and wherein said first thread segments are shorter than said second thread segments; and wherein the second thread segments are each made up of one or more radially spaced projecting portions, each said portion extending radially no more than about 60 degrees around the closure skirt.

0) US2008258478A – SECURITY DEVICE HAVING A CABLE

37) Family number: 33078689 (US2008258478A)

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Title: SECURITY DEVICE HAVING A CABLE

Priority:

AU20060249846	20060523	AU20120202003	20120405	EP20050853570	20051207
AU20140218447	20140829	EP20050853572	20051207	EP20050853573	20051207
US20040633813	20041207	US20050683657	20050523	US20050792623	20051207
US20040633813P	20041207	US20050683657P	20050523	JP20080513718	20060523
JP20080513718T	20060523	EP20080794886	20080730	US20050792633	20051207
US20050792632	20051207	US20070967416P	20070904	US20080178253	20080723
US20080181593	20080729	US20070792632	20070607	US20080028367P	20080213
US20050792631	20051207	US20050792647	20051207	US20060920968	20060523
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WO2009US00270	20090116	WO2005US44690	20051207	WO2005US44691	20051207
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Family:

Publication number	Publication date	Application number	Application date
AT506511 E	20110515	AT20050853571T	20051207
AT510093 E	20110615	AT20050853573T	20051207
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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 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
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International class
(IPC 8-9):

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G09G3/16 G11B33/02 (Core/Invention);
E05B47/00 (Core/Non-invention);
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E05B73/00

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Abstract:

Source: US2008258478A Systems and apparatuses for a security device having a cable (922) are disclosed.

0) US2006163103A – PHARMACY BOTTLE SYSTEM

38) Family number: 33150499 (US2006163103A)

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Title: PHARMACY BOTTLE SYSTEM

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Family:

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Probable Assignee: CVS PHARMACY INC

Assignee(s):^(std): DOUGLAS PATRICK L ; GRISIK MATTHEW S ; ROSBERG KLAUS ; ADLER DEBORAH B ; TARGET BRANDS INC ; TARGETTI SANKEY SPA

Assignee(s): TARGETTI SANKEY S P A ; CVS PHARMACY INC ; ROSBURG KLAUS

Inventor(s):^(std): ADLER DEBORAH B ; DOUGLAS PATRICK L ; GRISIK MATTHEW S ; KLAUS ROSBURG ; ROSBURG KLAUS ; ROSBERG KLAUS

Inventor(s):

PATRICK L DOUGLAS ; MATTHEW S GRISIK ; GRISIK MATTHEW ; DOUGLAS PATRICK ; DEBORAH B ADLER ; ADLER DEBORAH ; GRISIK MATTHEWS ; DOUGLAS PATRICKL

Agent(s): PIPERS; PIPERS PATENT ATTORNEYS; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MILTONS LLP SRL; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; DICKE BILLIG AND CZAJA PLLC; TARGET BRANDS INC; INGRASSIA FISHER AND LORENZ PC; GRIFFITHS AND SEATON PLLC; JOANN M

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 KP KR KZ LC LI LK LR LS LT LU LV 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

International class
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European class: A61J1/00 B42D15/00 B65D1/02D B65D23/08D1 B65D25/20B G09F3/02 G09F3/02C G09F3/02C2 G09F3/10 L65D501/02Y9

US class: 206/438 206/459.5 206/534 215/230 215/365 215/379 215/40 215/43 283/81 283/900 40/310 40/674 53/410 53/415

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Forward Citations:

WO14159075, WO12151619, WO12098857, WO11019967, WO10151528, WO10151528, WO10042282, WO09135932, WO09135932, WO09073322, WO09056324, USD792233, USD790340, USD786683, USD786674, USD786087, USD786086, USD780589, USD780588, USD779955, USD778412, USD778411, USD776535, USD766727, USD748392, USD747602, USD747091, USD731309, USD726008, USD690199, USD684458, USD663036, USD653537, USD649196, USD645094, USD644507, USD643472, USD643471, USD643470, USD643469, USD643468, USD641422, USD641421, USD639863, USD639862, USD639861, USD639669, USD634369, USD634368, USD634367, USD633151, USD624596, USD624595, USD621880, USD621879, USD614703, USD607941, USD605230, USD605229, USD605228, USD602534, USD597841, USD597608, USD595361, USD594336, USD593613, USD588200, USD583242, USD581275, US9798861, US9758270, US9710866, US9656795, US9643771, US9628891, US9628434, US9622939, US9586712, US9511003, US9487335, US9463138, US9428314, US9376235, US9342999, US9334096, US9308149, US9266649, US9243394, US9241873, US9238518, US9216844, US9193491, US9152968, US9141764, US9120605, US9114660, US9085402, US9085396, US9061797, US9033151, US8989673, US8985358, US8973755, US8881988, US8870004, US8814216, US8752705, US8726549, US8662331, US8579116, US8458994, US8429839, US8397519, US8391104, US8382717, US8359816, US8336917, US8318303, US8281930, US8281929, US8123037, US8123033, US8065827, US8056724, US8025314, US7980391, US7942451, US7918830, US7816323, US7782479, US7661533, US7628427, US7624869, US7581656, US7454880, US7413082, US2017206493, US2016000648, US2015257976, US2015196141, US2015144586, US2015025999, US2015014203, US2014216978, US2013033031, US2012241451, US2012090210, US2012074681, US2011155625, US2011155603, US2011152834, US2011000814, US2010326868, US2010258470, US2010252474, US2010203048, US2010196389, US2010167614, US2010113341, US2010094132, US2010058776, US2010038279, US2009294521, US2009270003, US2009156074, US2009143745, US2009100726, US2008308444, US2008308443, US2008300718, US2008296181, US2008283433, US2008283426, US2008262930, US2008228160, US2008099562, US2008097787, US2008017602, US2008011761, US2007222205, US2007095850, US2006163869, US2003214129, EP2704959, CN104085591, CN102741904, CN102422336, AU2010264522,

Abstract:

Source: US2006163103A A prescription pharmacy bottle comprises a container and a label. The container includes a generally planar front portion having a generally rectangular shape and a generally planar back portion spaced from the front portion. The back portion has a generally rectangular shape and generally faces away in an opposite direction from the front portion. The label is secured to the container bearing printed matter related to a medication and includes a front portion secured on the front portion of the container and a back portion secured on the back portion of the container.

39) Family number: 30082736 (US5765605A)

© PatBase

Title: Distributed concentrated chemical dispensing system

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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: DIVERSEY INC

Assignee(s):^(std): JOHNSON S C COMM MARKETS INC ; JOHNSON DIVERSEY INC ; JOHNSON AND SON INC S C ; S C JOHNSON AND SON INC ; S C JOHNSON MARKETING CO ; SC JOHNSON COMMERCIAL MARKETS ; SC JOHNSON COMMERCIAL MARKETS

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Inventor(s): ANDREW I POUTIATINE ; A ROSS CAMERON ; A ROSS CAMERON ; CAMERON A ; JOHN A BOTICKI ; CHARLES E SEAMAN ; CAREY W ZIMMERMAN ; GARY L WAYMIRE ; MICHAEL R BARRY ; MICHAEL J GREANEY ; RAYMOND MCKINNON ; THOMAS A ; CAMERON A ROSS AND

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BERESKIN AND PARR; ALESSANDRI; JOSE ANTONIO LLOREDA

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

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B01F5/04 (Advanced/Non-invention);
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B65D47/34 B67D3/00 (Core/Non-invention)

International class
(IPC 1-7): B01F13/04 B01F5/00 B01F5/04 B01F5/08 B05B 7/14 B05B7/04 B05B7/14 B26B21/00 B65B1/04 B65B3/06 B65B3/26 B65D47/34 B65D51/00 B67C3/00 B67C3/26 B67D1/00 B67D3/00 B67D5/00 B67D5/01 B67D5/02 B67D5/08 B67D5/40 B67D5/52 F04B1/00 F04B13/00 F04B13/02 F16K24/04

CPC: B05B11/0097 B05B7/2443 B05B7/1209 B67D7/02 B67D1/0831 B67D7/0294 Y10T137/3185 Y10T137/87587 Y10T137/87595 B67D7/344 B01F5/0077 B67D7/741 E03C1/046 B05B11/3011 B05B11/0056 B05B11/3083 B05B11/3084

European class: B01F5/00C B05B11/00B17 B05B11/00B5F B05B11/30C5B B05B11/30K2 B05B11/30K4 B67D1/08B2 B67D7/02 B67D7/02G2 B67D7/34C B67D7/74B E03C1/046

US class: 137/216 137/888 137/889 141/100 141/18 141/2 141/285 141/291 141/309 141/325 141/349 141/351 141/9 141/94 222/133 222/137 222/145.5 222/383.1 222/470 222/472 222/484 222/564 239/318 417/151 417/76

[Classification Explorer](#)

Cited documents: WO9726086 A2, WO9617800 A1, WO9601227 A1, WO9321103 A1, WO9219530 A2, WO8903804 A1, USD289675, USD226712, US912106 A, US736664 A, US664237 A, US5752626 A, US5678592, US5657800, US5653270, US5651398, US5603430,

US5584327, US5573046, US5570840 A, US5544810, US5535950 A, US5522419, US5518020, US5495958, US5494174 A, US5454487 A, US5454476, US5439141 A, US5431291, US5425404, US5417258, US5409146 A, US5402916 A, US5394999, US5392956 A, US5383603 A, US5377718, US5375769 A, US5375569, US5372310 A, US5360144 A, US5344074 A, US5332158 A, US5332157 A, US5326079, US5320288 A, US5310091 A, US5305778 A, US5299608 A, US5289949 A, US5259557 A, US5255820 A, US5253677, US5249600, US5240029, US5238252 A, US5213265 A, US5211475, US5184758 A, US5169029 A, US5159958 A, US5152504 A, US5152461 A, US5145080 A, US5135124 A, US5133498 A, US5127547 A, US5100059 A, US5099882 A, US5096083 A, US5074572 A, US5071070, US5060689 A, US5046667 A, US5039016 A, US5037066 A, US5037015 A, US5020694 A, US5009342 A, US5007588 A, US4993594 A, US4984306 A, US4983061 A, US4982900 A, US4960218 A, US4958754 A, US4953728 A, US495299 A, US4951699 A, US4938421 A, US4925066 A, US4922960 A, US4917158 A, US4911328 A, US4902281 A, US4901923 A, US4895281 A, US4881575 A, US4880209 A, US4878619 A, US4875626 A, US4826048 A, US4817825 A, US4792062 A, US4790454 A, US4778149 A, US4773562 A, US4767059 A, US4730747 A, US4723685 A, US4722459 A, US4721220 A, US4721126 A, US4697610 A, US4690306 A, US4683921 A, US4653676 A, US4649068 A, US4643330 A, US4634559 A, US4633909 A, US4623095 A, US4612926 A, US4610372 A, US4583688 A, US4566610 A, US4562930 A, US4549674 A, US4542853 A, US4538636 A, US4535906 A, US4527740 A, US4493440 A, US4475689 A, US4471888 A, US4467930 A, US4467830 A, US4418869 A, US4416610 A, US4414998 A, US4408626 A, US4391389 A, US4375859 A, US4371091 A, US4369921 A, US4355739 A, US4315601 A, US4299330 A, US4298129 A, US4298018 A, US4284201 A, US4265372 A, US4247080 A, US4247046 A, US4218013 A, US4213796 A, US4200206 A, US4171710 A, US4142681 A, US4132247 A, US412032 A, US4116364 A, US4114779 A, US4095749 A, US4084717 A, US4068681 A, US4067479 A, US4063667 A, US4033509 A, US4027785 A, US4014363 A, US3958708 A, US3952920 A, US3940069 A, US3938711 A, US3938550 A, US3933179 A, US3917172 A, US3901401 A, US3894659 A, US3871662 A, US3868036 A, US3865136 A, US3863843 A, US3862640 A, US3861596 A, US3853784 A, US3850346 A, US3834596 A, US3826474 A, US3809272 A, US3797747 A, US3797744 A, US3794200 A, US3786963 A, US3774809 A, US3770205 A, US3768962 A, US3760986 A, US3756473 A, US3727640 A, US3701478 A, US3675821 A, US3595442 A, US3473481 A, US3470826 A, US3445067 A, US3409178 A, US3365383 A, US332953 A, US3323686 A, US3311265 A, US3303970 A, US3303800 A, US3298669 A, US3273866 A, US3236457 A, US323325 A, US3231200 A, US3207445 A, US3166086 A, US3166020 A, US3158169 A, US3088679 A, US3072137 A, US3045925 A, US3042077 A, US3034731 A, US3032274 A, US3027097 A, US3018799 A, US2999514 A, US2989243 A, US2973883 A, US2973718 A, US2952412 A, US2951645 A, US2948480 A, US2941696 A, US2940673 A, US2919073 A, US2891913 A, US2881800 A, US2841313 A, US280589 A, US280079 A, US2800313 A, US2785833 A, US2785012 A, US2744791 A, US2724583 A, US2704555 A, US2694404 A, US262069 A, US2596034 A, US2589005 A, US2489636 A, US2408664 A, US2401914 A, US2382391 A, US2291215 A, US2288247 A, US2250291 A, US216416 A, US2061932 A, US2056357 A, US2040087 A, US2030853 A, US1959695 A, US1954105 A, US1920721 A, US1866770 A, US1814168 A, US1662095 A, US1582429 A, US1419798 A, US1266396 A, US1195915 A, US1102505 A, US1092101 A, GB881320 A, GB283963 A1, FR2581562 A1, EP0598237 A2, EP0467513 A1, EP0160627 A2, EP0057465 B1, DE9306595 U, DE9306595 U, DE9209823 U, DE9209823 U, DE7413719 U,

Forward Citations: WO9955465, WO9955465, WO17042492, WO15134267, WO15038744, WO14199098, WO14070004, WO14070003, WO14062990, WO14062990, WO12172276, WO09140459, WO08125977, WO08125977, WO07147457, WO05063610, WO04022428, WO03095354, WO03086597, WO03024814, WO0222449, WO0222449, WO0166458, WO0110769, WO0009270, USD780584, USD743806, USD640667, USD596487, USD582767, USD567084, USD490315, US9706754, US9616445, US9616441, US9539598, US9497953, US9480995, US9409134, US9192949, US9132441, US9113771, US9086186, US9027790, US8990098, US8955718, US8905088, US8870094, US8790033, US8639527, US8632271, US8596898, US8502680, US8496189, US8398003, US8395515, US8348098, US8336789, US8336569, US8333410, US8210215, US8086049, US8016212, US7938299, US7926682, US7850095, US7720291, US7717354, US7530373, US7370813, US7341206, US7284576, US7237577, US7134612, US7131468, US7025289, US6988675, US6968876, US6935536, US6854595, US6715514, US6708901, US6669390, US6637430, US6527749, US6464107, US6382593, US6279598, US6227262, US6202717, US6170543, US6149036, US6142345, US6092569, US2017112331, US2016074888, US2015336123, US2015129682, US2015128873, US2015047741, US2014217120, US2014117053, US2014110434, US2012255973, US2011232774, US2011174837, US2011095047, US2010320289, US2010284730, US2010209175, US2010206758, US2010196614, US2010192852, US2010180816, US2010170433, US2009293987, US2009277928, US2009230146, US2008237369, US2008179420, US2008105763, US2008073375, US2007237026, US2007202603, US2007045447, US2007034580, US2006113405, US2006032543, US2005274823, US2005180639, US2004261887,

US2004155119, US2004140013, US2004112984, US2004108336, US2004101348, US2004079437, US2004045984, US2004020723, US2004007481, NL2012726, KR101178314, JP5321984, JP2010528950, GB2461439, GB2376059, GB2376059, FR3040639, FR3007007, FR3007005, FR2826349, FR2826348, EP3095526, EP2862632, EP2162385, EP2162385, EP1699732, EP1507741, EP1427640, EP1317376, EP1200335, EP1104336, DE202014003991, CN105531032, CN104768866, CN102918212, CN102918212, CN102815655, AU734706, AU724874, AU2014318749, AU2008260719, AU2002331124,

Abstract:

Source: US5765605A A distributed concentrated chemical dispensing system 300 and method include a central station 302, one or more permanently mounted satellite stations 304, and one or more portable satellite stations 306. Local concentrated chemicals can be distributed from the central station 302 without being diluted to the satellite stations 304, 306 for final dilution. An information storage device 318 is provided for tracking and keeping records of the utilization of the concentrated chemicals.

40) Family number: 15136637 (US6003701A)

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Title: Tamper resistant bottle cap and neck
Priority: CA19992261017 19990203 US19980018620 19980204 US19990467433 19991220
Family:

Publication number	Publication date	Application number	Application date
CA2261017 AA	19990804	CA19992261017	19990203
CA2261017 C	20050614	CA19992261017	19990203
CN1132766 C	20031231	CN19991005628	19990204
CN1239058 A	19991222	CN19991005628	19990204
DE60019077 D1	20050504	DE20006019077	20001220
DE60019077 T2	20050901	DE20006019077T	20001220
DE69916520 D1	20040527	DE19996016520	19990204
DE69916520 T2	20040819	DE19996016520T	19990204
EP0941938 A2	19990915	EP19990300823	19990204
EP0941938 A3	20001227	EP19990300823	19990204
EP0941938 B1	20040421	EP19990300823	19990204
EP1114781 A2	20010711	EP20000311474	20001220
EP1114781 A3	20021113	EP20000311474	20001220
EP1114781 B1	20050330	EP20000311474	20001220
ES2218951 T3	20041116	ES19990300823T	19990204
ES2238976 T3	20050916	ES20000311474T	20001220
GB200030847 A0	20010131	GB20000030847	20001218
GB2358182 A1	20010718	GB20000030847	20001218
GB2358182 B2	20040107	GB20000030847	20001218
GB2358182 C	20071106	GB20000030847	20001218
HK1023759 A1	20040924	HK20000102997	20000519
IL128333 A0	20000131	IL19990128333	19990202
IL128333 A1	20010913	IL19990128333	19990202
MXPA99001314 A1	20020619	MX19990001314	19990203
US6003701 A	19991221	US19980018620	19980204
US6523710 BA	20030225	US19990467433	19991220

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Inventor(s): WALTER EDWARD HIDDING

Agent(s): CASSAN MACLEAN; REINHOLD COHN AND PARTNERS

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

International class
^{(IPC 8-9):} [B65D23/00](#) [B65D41/32](#) [B65D41/34](#) [B65D41/48](#) (Advanced/Invention);
[B65D41/32](#) [B65D41/34](#) (Core/Invention)

International class
^{(IPC 1-7):} [B65D](#) [B65D1/02](#) [B65D23/00](#) [B65D41/32](#) [B65D41/34](#) [B65D41/38](#) [B65D41/48](#) [B65D50/00](#)
[B65D55/02](#)

CPC: [B65D41/325](#) [B65D41/3409](#) [B65D41/32](#) [B65D41/485](#)

European class: B65D41/32 B65D41/32B B65D41/34A1 B65D41/48B

US class: 215/252 215/256 215/44

[Classification Explorer](#)

Cited documents: US6003701 A, US5975321 A, US5975320 A, US5775528 A, US5642825 A, US5593055 A, US5480045 A, US5385252 A, US5307945 A, US5213224 A, US5092478 A, US4934546 A, US4930647 A, US4922684 A, US4903849 A, US4815620 A, US4790448 A, US4771904 A, US4687114 A, US4573599 A, US4566603 A, US4534479 A, US4498597 A, US4436212 A, US4402415 A, US4337870 A, US4326639 A, US4197960 A, US4153174 A, US4131212 A, US4098419 A, US4062466 A, US4032029 A, US3980195 A, US3901404 A, US3527372 A, US3232470 A, GB809398 A, GB2199571 A1, GB2064493 A1, FR2665142 A1, EP0941938 A2,

Forward Citations: WO17136590, WO16010542, WO15150661, WO08027044, WO02053472, USD709766, USD474112, USD451393, US9181001, US9016489, US8839976, US8544666, US8132685, US8118182, US8056744, US7975863, US7905369, US7713055, US7581652, US7314146, US7014055, US6988642, US6931821, US6779672, US6523710, US6338414, US2013308880, US2013126530, US2012000879, US2011174761, US2009283492, US2009277861, US2009200258, US2008169262, US2007272647, US2007087075, US2007051691, US2007051690, US2007034591, US2007034590, US2006102584, US2005263476, US2005252878, US2005039416, US2005029219, US2004060893, US2003173325, ITMI20120443, GB2399559, GB2399559, GB2358182, GB2358182, EP2641841, EP1847472, EP1724201, EP1724201, EP1114781, DE102005037274, DE102005025760, DE102005022952, AU725554, AU2005209675, AU2002216840,

Abstract:

Source: US6003701A A tamper resistant bottle cap and neck for a threaded blow molded bottles which hold liquid, such as milk. The bottle cap and neck combination has an enhanced tamper evidency feature wherein a circumferential lip is formed at the outside edge of the interface between the cap and the neck. The lip protects the contents of the bottle by limiting the ability of potential tamperers to pry or bend upwardly the ratchet ring at lower edge of the cap.

41) Family number: 28516897 (US2003075548A)

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Title: Beverage bottle cooling method and apparatus with assembly for holding ice and water

Priority: US20000246493P 20001106 US20010983107 20011023 US20020066656 20020206
 US20020298613 20021119 US20030482475P 20030626 US20030382526 20030307
 WO2002US17003 20020531 US20050535658 20050519 WO2003US36962 20031119
 US20030535658 20031119

Family:	Publication number	Publication date	Application number	Application date
	AU2002310203 AA	20030506	AU20020310203	20020531
	AU2002310203 BB	20070405	AU20020310203	20020531
	AU2003297290 AA	20040615	AU20030297290	20031119
	AU2003297290 AH	20040615	AU20030297290	20031119
	BRPI0213507 A	20041019	BR2002PI13507	20020531
	CA2464711 AA	20040423	CA20022464711	20020531
	CN1575402 A	20050202	CN20028021181	20020531
	EP1446618 A1	20040818	EP20020737264	20020531
	JP2005536705 T2	20051202	JP20030538662T	20020531
	MXPA04003802 A1	20050408	MX2004PA03802	20020531
	TWI230248 B	20050401	TW20020124561	20021023
	US2003075548 AA	20030424	US20020066656	20020206
	US2003146227 AA	20030807	US20020298613	20021119
	US2004172921 AA	20040909	US20030382526	20030307
	US2006196882 AA	20060907	US20030535658	20031119
	US6588621 BB	20030708	US20020066656	20020206
	US7118005 BB	20061010	US20020298613	20021119
	WO03036204 A1	20030501	WO2002US17003	20020531
	WO04045961 A2	20040603	WO2003US36962	20031119
	WO04045961 A3	20040812	WO2003US36962	20031119

Probable Assignee: J SHIMAZAKI

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Inventor(s):^(std): J JOHN SCHIMAZAKI ; JOHN SHIMAZAKI J ; SHIMAZAKI J J ; SHIMAZAKI J JOHN ; SHIMAZAKI JOHN J ; SHIMAZAKI JUNJI JOHN

Inventor(s): JUNJI JOHN SHIMAZAKI ; SHIMAZAKI J ; J JOHN SHIMAZAKI ; JOHN J SHIMAZAKI ; J

Agent(s): J D HARDIE AND CO; BLAKE CASSELS AND GRAYDON LLP; NISHIURA TSUGUHARU; J JOHN SHIMAZAKI; J JOHN

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 ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU 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

International class
 (IPC 8-9): [A47G19/14](#) [A47G19/22](#) [A47J41/00](#) [B65B21/08](#) [B65D23/02](#) [B65D25/00](#) [B65D25/32](#) [B65D81/38](#) [F25D3/00](#) [F25D3/08](#) [F25D31/00](#) (Advanced/Invention); [B65D83/72](#) (Advanced/Non-Invention); [B65B21/00](#) [B65D23/00](#) [B65D25/00](#) [B65D25/28](#) [B65D81/38](#) [F25D3/00](#) [F25D31/00](#) (Core/Invention); [B65D](#) (Subclass/Invention)

International class
 (IPC 1-7): [A47G19/14](#) [A47G19/22](#) [B65B21/08](#) [B65D23/02](#) [B65D25/00](#) [F25D3/00](#) [F25D3/08](#)

CPC: F25D31/007 F25D2303/081 F25D2303/082 F25D2303/0843 F25D2303/0845
F25D2331/803 F25D2331/808 F25D2331/809 F25D2500/02 B65D25/32 B65D81/3844
F25D2303/0841 F25D3/08

European class: B65D25/32 B65D81/38F3 F25D3/08 F25D31/00H2 R25D303/081 R25D303/082
R25D303/0843 R25D303/0845 R25D331/803 R25D331/808 R25D331/809 R25D500/02

US class: 220/23.87 220/23.89 220/592.17 220/737 220/739 53/449 62/457.3 62/457.4

[Classification Explorer](#)

Cited documents: US81814 A, US7118005 BB, US6705110 BA, US6588621 BB, US6588621 BA, US6516967 BB, US6516967 BA, US6398061 BB, US6398061 BA, US6276163 BA, US6240741 BA, US6112537 A, US6085543 A, US5967378 A, US592781 A, US5904267 A, US5862937 A, US5573141 A, US5555746 A, US5406808 A, US5390804 A, US5243835 A, US5177981 A, US5090213 A, US4870837 A, US4823974 A, US4798063 A, US4638645 A, US4338795 A, US4281520 A, US3998072 A, US3995445 A, US379823 A, US3765559 A, US3302427 A, US303815 A, US2926508 A, US2868411 A, US2838916 A, US2622415 A, US2032130 A, US2005077305 AA, US2003210141 AA, US1657927 A, US1519034 A, US1354712 A, US1280501 A, US1218827 A, US1009406 A, JP7014976 A2,

Forward Citations: WO14095755, WO13089984, WO13089984, WO10149402, WO08002884, WO06001037, WO05019064, WO05019064, USD710712, USD636232, US9801483, US9750625, US9603483, US9598186, US9468323, US9408779, US9320938, US9175876, US8783244, US8733338, US8578926, US8556108, US8528761, US8424713, US8360048, US8002129, US8001959, US7784759, US7712625, US7464567, US7337915, US7118005, US2016106247, US2015096324, US2014319158, US2014251319, US2013313272, US2013299443, US2012125943, US2011186264, US2011147395, US2010227027, US2010224510, US2010102023, US2009266737, US2009199843, US2009114791, US2009071968, US2008308559, US2008010123, US2007169506, US2006201165, US2006196882, US2006043250, US2005126209, US2003146227, JP2011229594, EP1668299, CN105329548, CN104918864, CN103284607,

Abstract:

Source: US2003075548A The present invention relates to a beverage bottle cooling method and apparatus comprising a container for containing ice and/or water that is adapted to have a commercial beverage bottle positioned substantially therein, wherein regular ice and/or water can be stored and sealed within the space between the bottle and container, to help keep the beverage inside cool. The space is preferably substantially sealed by a cap which is adapted with an opening and sealing ring that extends over the neck of the bottle, wherein the bottle can be held in substantial compression between the sealing ring and one or more supports extending substantially underneath the bottle. The supports preferably provide vertical and lateral support to the bottle, and substantially prevent the bottle in the cooling device from rotating, which enables the bottle lid to be easily opened and closed. The container is also preferably adapted in relation to the bottle in a way that enables the bottle to be held in an elevated position, so as to maximize contact with ice, and ice to be easily displaced when the bottle is inserted into the container.

0) US2011127279A – BOTTLE

42) Family number: 44397153 (US2011127279A)

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Title: BOTTLE

Priority: AU20090280614 20090811 AU20150200601 20150206 CN200980129621 20090811
 AU20150200602 20150206 CA20162732345 20160426 CA20092732345 20090811
 JP20080208191 20080812 JP20080305227 20081128 JP20080332491 20081226
 EP20090806726 20090811 US20110055346 20110121 US20130935153 20130703
 EP20120182982 20090811 EP20140151182 20090811 WO2009JP64204 20090811

Family:

Publication number	Publication date	Application number	Application date
AU2009280614 AA	20100218	AU20090280614	20090811
AU2009280614 BB	20150402	AU20090280614	20090811
AU2015200601 AA	20150226	AU20150200601	20150206
AU2015200601 BB	20160303	AU20150200601	20150206
AU2015200602 AA	20150226	AU20150200602	20150206
AU2015200602 BB	20160303	AU20150200602	20150206
CA2732345 AA	20100218	CA20092732345	20090811
CA2732345 C	20160719	CA20092732345	20090811
CA2927579 AA	20100218	CA20092927579	20090811
CN102105361 A	20110622	CN200980129621	20090811
CN102673854 A	20120919	CN201210139031	20090811
CN102673854 B	20150225	CN201210139031	20090811
DE602009019525 D1	20131212	DE200960019525T	20090811
DE602009029893 D1	20150416	DE200960029893T	20090811
DE602009030737 D1	20150528	DE200960030737T	20090811
EP2319771 A1	20110511	EP20090806726	20090811
EP2319771 A4	20120314	EP20090806726	20090811
EP2319771 B1	20131016	EP20090806726	20090811
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EP2532595 B1	20150415	EP20120182982	20090811
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EP2740681 B1	20150304	EP20140151182	20090811
JP2010042838 A2	20100225	JP20080208191	20080812
JP2010126233 A2	20100610	JP20080305227	20081128
JP2010149917 A2	20100708	JP20080332491	20081226
JP5138502 B2	20130206	JP20080208191	20080812
JP5286074 B2	20130911	JP20080332491	20081226
JP5427397 B2	20140226	JP20080305227	20081128
KR101598614 B1	20160229	KR20117002932	20090811
KR20110044754 A	20110429	KR20117002932	20090811
US2011127279 AA	20110602	US20090055346	20090811
US2013292356 AA	20131107	US20130935153	20130703
US8505758 BB	20130813	US20090055346	20090811
US9090374 BB	20150728	US20130935153	20130703
WO10018835 A1	20100218	WO2009JP64204	20090811

Probable Assignee: YOSHINO KOGYOSHO CO

Assignee(s):^(std): OSHINO TADAYOSHI ; YOSHINO KOGYOSHO CO LTD

Assignee(s):

YOSHINO KOGYOSYO CO LTD ; YOSHINO KOGYOSYO CO ; OSHINO TADAYOSHI ;
YOSHINO KOGYOSHO CO

Inventor(s):(std): OSHINO CHUKICHI ; OSHINO TADAYOSHI ; OSHINO TADAYOSHY ; TADAYOSHI
OSHINO

Inventor(s): OSHINO TADAYOSHI ; OSHINO TADAYOSHI ; OSHINO TADAYOSHI TOKYO

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY; TER MEER
STEINMEISTER AND PARTNER PATENTANWALTE MBB; LESZCZYNSKI ANDRE;
NONY; OLIFF AND BERRIDGE PLC; OLIFF PLC; SHIGA MASATAKE 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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST
SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class B65D1/02 B65D1/40 B65D21/08 B65D23/00 B65D6/38 B65D79/00 (Advanced/Invention);
(IPC 8-9): B65D1/02 B65D1/40 B65D1/44 B65D21/08 (Advanced/Non-invention);
B65D1/02 (Core/Invention)

CPC: B65D1/0223 B65D1/44 B65D1/0292 B65D79/005 B65D2501/0036 B65D1/02

European class: B65D1/02D3 B65D79/00B L65D501/02Y1C

US class: 1/1 215/382 215/383 220/666 220/672 220/673 220/675 220/675S

[Classification Explorer](#)

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AA, US2006289379 AA, US2006289379, US2006243698 AA, US2006131259 AA,
US2004200799 AA, JP7172424 A2, JP507405, JP313975, JP285814, JP280755,
JP262500, JP2008305227 A2, JP2008208191 A2, JP2005313975 A2, JP2005280755 A2,
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GB2025889 A1, FR1199635 A, DE3123902 A1, CN2240495, CN1449342,

Forward Citations: WO16016372, WO12081627, USD755636, USD741186, USD734672, US9248932,
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JP5589535, JP2016504245, JP2014213935, JP2013112413, JP2012091815,
JP2012046187, JP2012030837, JP2011230815, JP2010208692, EP2653400,
EP2653400, CN102556461, CN102556461, AU2011342160,

Abstract:

Source: US2011127279A Disclosed is a bottomed tubular bottle including an annular groove which is formed so as to be circumferentially and radially recessed inward along the outer peripheral surface of a body of the bottle with a bottle axis as a center and which contracts and deforms the body in the axial direction of the bottle when the internal pressure is reduced. The annular groove is recessed and formed by a first wall surface arranged on a mouth side of the bottle and a second wall surface arranged on a bottom side of the bottle. The body is formed so that the outer diameter on the bottom side is larger than the outer diameter on the mouth side with the annular groove interposed therebetween.

43) Family number: 10479960 (US4708255A)

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Title: CLOSURE CAP WITH A LINERLESS SEAL AND A METHOD FOR FORMING SUCH CLOSURE AND SEAL

Priority: AU19880019673 19880609 AU19920027050 19921015 EP19870900477 19870623
 CA19860525245 19861212 CA19860525246 19861212 CA19880569103 19880609
 EP19870900478 19861205 EP19870900478 19861205 JP19870500095 19861205
 US19890390737 19890808 US19850809057 19851212 US19850809058 19851212
 US19870061304 19870610 WO1986US02619 19861205 WO1988US01967 19880609
 WO1988US01967 19880609 WO1986US02620 19861205 WO1986US02620 19861205
 WO1986US02619 19861205

Family:

Publication number	Publication date	Application number	Application date
AT102887 E	19940415	AT19870900477T	19870623
AT126494 E	19950915	AT19860900478T	19861205
AT129958 E	19951115	AT19880906358T	19880609
AT191198 E	20000415	AT19860101592T	19861205
AU198767381 A1	19870630	AU19870067381	19861205
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AU198819673 A1	19890104	AU19880019673	19880609
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AU662172 B2	19950824	AU19920027050	19921015
AU687633 B2	19980226	AU19950034446	19951025
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CA1330779 A1	19940719	CA19860525246	19861212
CA1338265 A1	19960423	CA19880569103	19880609
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DE3650370 T2	19960118	DE19863650370T	19861205
DE3650743 D1	20000504	DE19863650743	19861205
DE3689726 D1	19940421	DE19863689726	19861205
DE3689726 T2	19941027	DE19863689726T	19861205
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DE3854669 T2	19960711	DE19883854669T	19880609
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DK411487 A0	19870807	DK19870004114	19870807
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DK418287 A0	19870811	DK19870004182	19870811
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<u>JP2602516 B2</u>	19970423	JP19870500095T	19861205
<u>JP2813146 B2</u>	19981022	JP19950020770	19950208
<u>JP2836831 B2</u>	19981214	JP19880505628T	19880609
<u>JP3500625 T2</u>	19910214	JP19880505628T	19880609
<u>JP63502265 T2</u>	19880901	JP19870500095T	19861205
<u>JP63502266 T2</u>	19880901	JP19860500272T	19861205
<u>JP7005134 B4</u>	19950125	JP19860500272	19861205
<u>JP7285565 A2</u>	19951031	JP19950020770	19950208
<u>KR19887000759 A</u>	19880412	KR19877000693	19861205
<u>KR19887000760 A</u>	19880412	KR19877000712	19861205
<u>NO873343 A</u>	19871009	NO19870003343	19870810
<u>NO873343 A0</u>	19870810	NO19870003343	19870810
<u>NO873344 A</u>	19871009	NO19870003344	19870810
<u>NO873344 A0</u>	19870810	NO19870003344	19870810
<u>US4708255 A</u>	19871124	US19850809058	19851212
<u>US4709824 A</u>	19871201	US19850809057	19851212
<u>US4872304 A</u>	19891010	US19870061304	19870610
<u>US5158195 A</u>	19921027	US19890390737	19890808
<u>WO8703560 A1</u>	19870618	WO1986US02619	19861205
<u>WO8703561 A1</u>	19870618	WO1986US02620	19861205
<u>WO8809722 A1</u>	19881215	WO1988US01967	19880609

Probable Assignee: ZAPATA INNOVATIVE CLOSURES INC

Assignee(s):^(std): TRI TECH SYST ; INNOVATIVE CLOSURES INC ; ZAPATA INNOVATIVE CLOSURES INC

Assignee(s): YODER J SCOTT ; MID AMERICAN BANK AND TRUST CO ; FIRST FEDERAL SAVING AND LOAN ASSOCIATION OF TOLED ; FIRST FEDERAL SAVING AND LOAN ASSOCIATION OF TOLEDO 701 FIRST FEDERAL PLAZA TOLEDO OH 43624 ; INNOVATIVE CLOSURES INC NEW YORK N Y US ; NATIONAL CANADA FINANCE CORP ; NATIONAL BANK OF CANADA ; NATIONAL BANK OF CANADA SUITE ; MID AMERICAN NATIONAL BANK AND TRUST CO ; MID AMERICAN NATIONAL BANK AND TRUST COMAPNY ; S D TECHNOLOGIES INC ; MID AMERICAN NATIONAL BANK AND TRUST CO 222 SOUTH ; MID AMERICAN NATIONAL BANK AND TRUST CO 222 SOUTH MAIN STREET BOWLING GREEN OHIO 43402 ; TRI TECH SYSTEMS INT ; SD TECHNOLOGIES INC ; SCHEICH RICHARD A ; TRI TECH SYSTEMS INTERNATIONAL INC ; TORAI TETSUKU SHISUTEMUZU INTERN INC ; TORIITEKU SHISUTEMUZU INTERN INC ; TORII TEKU SYST INTERNATL INC ; TRI TECH SYSTEMS INTERNATONAL INC ; TRI TECH SYSTEMS INT INC ; S D TECHNOLOGIES INC FL CORP ; TRI TECH SYSTEMS INT INC A CORP OF MA ; SD TECHNOLOGIES INC A FL CORP ; TRI TECH SYSTEMS INT INC 1280 DUSSEL DR MAUMEE OH ; THOMPSON MORTIMER STAFFORD ; TRI TECH SYSTEMS INT INC 1280 DUSSEL DR MAUMEE OH 43537 A DE CORP

Inventor(s):^(std): STAFFORD THOMPSON MORTIMER ; THOMPSON MORTIMER ; THOMPSON MORTIMER S ; THOMPSON MORTIMER STAFFORD ; MOOTEIMAA SUTATSUFUOODO TONPUS ; TONPUSON MOOTEIMAA SUTATSUFUOO

Inventor(s): TONPUSON MOOTEIMAA SUTATSUFUOODO ; MOOTEIMAA SUTATSUFUOODO TONPUSON ; MORTIMER STAFFORD THOMPSON ; THOMPSON MORTIMER STAFFORD ARLINGTON MA 02174 US ; THOMPSON MORTIMER STAFFORD MAUMEE OH 43537 US

Agent(s): PHILLIPS ORMONDE FITZPATRICK; MOFFAT AND CO; SIM AND MCBURNEY

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

International class
(IPC 8-9): B29C53/12 B29C53/34 B29C55/00 B29C57/00 B29C57/12 B29C67/00 B29D99/00 B65D41/04 B65D41/34 B65D53/02 B65D55/02 B65D55/08 (Advanced/Invention);
B29C57/00 B29L31/56 (Advanced/Non-invention);
B29C55/00 B29C57/00 B29C67/00 B65D41/04 B65D41/34 B65D55/02 (Core/Invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): A47J41/02 B29C43/02 B29C45/00 B29C53/34 B29C55/00 B29C57/00 B29C57/12 B29C67/00 B29D31/00 B29L31/56 B65D39/04 B65D41/04 B65D41/34 B65D53/00 B65D53/02 B65D55/02 B65D55/06 B65D55/08

CPC: Y10S215/01 Y10S277/924 B65D2101/0053 B29C67/00 B29C55/00 B29L2031/26 B65D41/0407 B65D41/3447 B29C57/12 B29L2031/565 B65D41/0414 B65D41/0421 B65D41/0428

European class: B29C55/00 B29C57/12 B29C67/00 B65D41/04B B65D41/04B1 B65D41/04B1A B65D41/04B2 B65D41/34D1 L29L31/26 L29L31/56B L65D101/00A3E

US class: 215/252 215/329 215/344 215/DIG.1 264/295 264/296 264/320 264/322 264/339 277/1 277/644 277/924 53/487 53/488 53/490

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Forward Citations: WO9846417, WO9744262, WO9109785, WO9013490, WO8809722, WO8809721, WO8809720, WO8809719, WO16009235, WO15193971, WO13065952, WO07081656, WO03059768, USRE36729, US9697708, US9156669, US8444610, US8313123, US7648670, US7431877, US7413097, US6991123, US6805252, US6685061, US6685049, US6602309, US6527132, US6464096, US6349798, US6325228, US6102225, US6082569, US5980230, US5964363, US5891380, US5875906, US5836464, US5810184, US5638972, US5624623, US5528814, US5423444, US5398836, US5370520, US5348182, US5320236, US5289931, US5283940, US5281385, US5205426, US5181615, US5167335, US5163575, US5096079, US5076453, US4852775, US4813562, US2016321885, US2016318686, US2012295343, US2012187073, US2010145287, US2010140206, US2008072989, US2008067718, US2007175853, US2007158295, US2007128080, US2007110842, US2005184433, US2005067367, JP6010156, JP2013539707, JP2008239184, GB2348193, FR2882731, FR2646651, ES2153256, EP2800710, EP1698564, EP1061000, EP1043242, EP0508702, EP0365596, AU662172, AU639938,

Abstract:

Source: US4708255A A linerless cap for a container and a method of forming the cap. In the method the cap is molded from plastic and includes a top wall, an outer depending skirt and an internal depending substantially annular wall having an upper end integral with and depending from the top wall and a lower free end. Thereafter the free end is engaged by an essentially concave surface of a curling tool to progressively turn the free end away from the internal wall to curve the free end into a curvilinear compressible and resilient free end adapted to be engaged for sealing. The engageable free end of the seal can have a coil, O, U, J or quarter round cross sectional shape and can be a rim, plug or corner seal.

0) US5584165A – METHOD OF FILLING AND INSERT FOR A CONTAINER

44) Family number: 44523903 (US5584165A)

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Title: Method of filling and insert for a container

Priority: GB19930012677 19930618 GB19930016732 19930812 GB19940001167 19940121
 GB19940001168 19940121 GB19930018957 19930914 GB19940001168 19940121
 GB19940016290 19940811 WO1994GB01755 19940811 WO1994GB01313 19940617
 GB19950001041 19950119 GB19950001024 19950119 GB19950001023 19950119
 WO1994GB01312 19940617 GB19940013741 19940707 WO1995GB00103 19950119
 WO1995GB00104 19950119 WO1995GB00105 19950119 WO1994GB01756 19940811

Family:

Publication number	Publication date	Application number	Application date
AT149949 E	19970315	AT19940922332T	19940811
AT160549 E	19971215	AT19940922333T	19940811
AT166846 E	19980615	AT19950905727T	19950119
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AU199469752 A1	19950117	AU19940069752	19940617
AU199469753 A1	19950117	AU19940069753	19940617
AU199473489 A1	19950314	AU19940073489	19940811
AU199473490 A1	19950314	AU19940073490	19940811
AU199514230 A1	19950808	AU19950014230	19950119
AU199514231 A1	19950808	AU19950014231	19950119
AU199514593 A1	19950808	AU19950014593	19950119
AU671758 B2	19960905	AU19940069752	19940617
AU674762 B2	19970109	AU19940069753	19940617
AU676596 B2	19970313	AU19940073489	19940811
AU677690 B2	19970501	AU19940073490	19940811
AU682431 B2	19971002	AU19950014231	19950119
AU683977 B2	19971127	AU19950014230	19950119
CA2158837 AA	19950921	CA19942158837	19940617
CA2158838 AA	19950921	CA19942158838	19940617
CA2167049 AA	19960111	CA19942167049	19940811
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CA2180573 AA	19960704	CA19952180573	19950119
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DK0739299 T3	19991011	DK19950905726T	19950119
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<u>EP0712368 A1</u>	19960522	EP19940922332	19940811
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<u>EP0712369 B1</u>	19971126	EP19940922333	19940811
<u>EP0739299 A1</u>	19961030	EP19950905726	19950119
<u>EP0739299 B1</u>	19990324	EP19950905726	19950119
<u>EP0739300 A1</u>	19961030	EP19950905727	19950119
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<u>ES2098973 T3</u>	19970501	ES19940922332T	19940811
<u>ES2109713 T3</u>	19980116	ES19940922333T	19940811
<u>ES2117398 T3</u>	19980801	ES19950905727T	19950119
<u>ES2131302 T3</u>	19990716	ES19950905726T	19950119
<u>GB2279056 A1</u>	19941221	GB19940012146	19940617
<u>GB2279056 B2</u>	19960821	GB19940012146	19940617
<u>GB2279057 A1</u>	19941221	GB19940012232	19940617
<u>GB2279057 B2</u>	19960814	GB19940012232	19940617
<u>GB2280886 A1</u>	19950215	GB19940016249	19940811
<u>GB2280886 B2</u>	19961113	GB19940016249	19940811
<u>GB2280887 A1</u>	19950215	GB19940016290	19940811
<u>GB2280887 B2</u>	19961023	GB19940016290	19940811
<u>GB2285792 A1</u>	19950726	GB19950001023	19950119
<u>GB2285793 A1</u>	19950726	GB19950001024	19950119
<u>GB2285793 B2</u>	19970326	GB19950001024	19950119
<u>GB2286379 A1</u>	19950816	GB19950001041	19950119
<u>GB2286379 B2</u>	19970423	GB19950001041	19950119
<u>GB9312677 A0</u>	19930804	GB19930012677	19930618
<u>GB9316732 A0</u>	19930929	GB19930016732	19930812
<u>GB9318957 A0</u>	19931027	GB19930018957	19930914
<u>GB9401167 A0</u>	19940316	GB19940001167	19940121
<u>GB9401168 A0</u>	19940316	GB19940001168	19940121
<u>GB9412146 A0</u>	19940810	GB19940012146	19940617
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<u>GB9413741 A0</u>	19940824	GB19940013741	19940707
<u>GB9416249 A0</u>	19941005	GB19940016249	19940811
<u>GB9416290 A0</u>	19941005	GB19940016290	19940811
<u>GB9501023 A0</u>	19950308	GB19950001023	19950119
<u>GB9501024 A0</u>	19950308	GB19950001024	19950119
<u>GB9501041 A0</u>	19950308	GB19950001041	19950119
<u>HK1000540 A1</u>	19980403	HK19970102064	19971030
<u>JP3489835 B2</u>	20040126	JP19950519412T	19950119
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<u>NZ278127 A</u>	19980226	NZ19950278127	19950119
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<u>SG42972 A1</u>	19971017	SG19960001601	19940811
<u>US5584165 A</u>	19961217	US19950532696	19950925
<u>US5705209 A</u>	19980106	US19960591672	19960322
<u>US5705210 A</u>	19980106	US19960676326	19960719
<u>US5780083 A</u>	19980714	US19960591671	19960130
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<u>WO9505326 A1</u>	19950223	WO1994GB01756	19940811
<u>WO9519923 A1</u>	19950727	WO1995GB00103	19950119
<u>WO9519924 A1</u>	19950727	WO1995GB00104	19950119
<u>WO9519925 A1</u>	19950727	WO1995GB00105	19950119
<u>ZA9406088 A</u>	19950814	ZA19940006088	19940812
<u>ZA9406089 A</u>	19950814	ZA19940006089	19940812
<u>ZA9500471 A</u>	19960122	ZA19950000471	19950120
<u>ZA9500472 A1</u>	19960327	ZA19950000472	19950120
<u>ZA9500473 A</u>	19960502	ZA19950000473	19950120

Probable Assignee: HEINEKEN TECHNICAL SERVICES BV

Assignee(s):^(std): HEINEKEN TECH SERVICES ; WHITBREAD AND CO LTD ; ROSENS ERWIN ANTON ; SILLINCE MARK ERICH ; HEINEKEN TECHNICAL SERVICES BV ; WHITBREAD PLC HEINEKEN TECHNIC ; WHITBREAD PLC AND HEINEKEN TEC ; PYXIS LIMITED ; WRIGHT TIMOTHY ; WHITEBREAD PLC

Assignee(s): WHITBREAD PLC LONDON GB ; WHITBREAD PLC AND HEINEKEN TECHNICAL SERVICES BV ; WHITBREAD PLC ; WHITBREAD PLC HEINEKEN TECHNICAL SERVICES BV ; HEINEKEN TECHNICAL SERVICES B V ; HEINEKEN TECHNICAL SERVICES B V AMSTERDAM NL ; HEINEKEN TECHNICAL SERVICES BV

Inventor(s):^(std): ANTON ROSENS ERWIN ; ERICH SILLINCE MARK ; ERWIN ANTON ROSENS ; MARK ERICH SILLINCE ; ROSENS ERWIN ; ROSENS ERWIN ANTON ; SILLINCE MARK ; SILLINCE MARK ERICH ; TIMOTHY WRIGHT ; WRIGHT TIMOTHY

Inventor(s): WRIGHT TIMOTHY KNOWLE SOLIHULL B93 9LL GB ; SILLINCE MARK ERICH BEDFORDSHIRE LU7 9JE GB ; SILLINCE MARK ERICH LEIGHTON BUZZARD BEDFORDSHIRE LU7 8AD GB ; SILLINCE MARK ERICH LEIGHTON BUZZARD BEDFORDSHIRE LU7 9JE GB ; SILLINCE MARK ERICH LEIGHTON BUZZARD... ; ROSENS ERWIN ANTON NL 2403 XH ALPHEN A D RIJN NL ; ROSENS ERWIN ANTON NL 2403 XH ALPHEN AA DE RIGN NL ; ROSENS ERWIN ANTON NL 2403 XH ALPHEN AAN DE RIJN NL ; ROSENS ERWIN ANTON NL 2403 XH ALPHEN AAN DE...

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BORDEN LADNER GERVAIS LLP

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 IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA US UZ VN

International class
(IPC 8-9): B65D23/00 B65D25/02 B65D25/04 B65D25/20 B65D77/24 B65D79/00 B65D8/00 B65D81/32 B65D83/00 B65D85/73 (Advanced/Invention);
B65D25/02 B65D25/04 B65D25/20 B65D8/00 B65D81/32 B65D83/00 (Advanced/Non-invention);
B65D25/02 B65D25/04 B65D25/20 B65D79/00 B65D8/00 B65D81/32 B65D83/00 B65D85/72 (Core/Invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): B05B31/02 B65B17/00 B65B25/00 B65B31/00 B65D B65D23/00 B65D25/02 B65D25/04 B65D25/20 B65D77/00 B65D77/24 B65D79/00 B65D8/00 B65D81/20 B65D81/32 B65D83/00 B65D85/72

CPC: B65D85/73 Y10S220/906

European class: B65D79/00C B65D85/73

US class: 220/521 220/906 426/112 426/115 426/118 426/124 426/131 426/132 53/420 53/432

[Classification Explorer](#)

Cited documents: WO9503983 A1, WO9503982 A2, WO9414678 A1, WO9310021 A1, WO9309055 A1, WO9107326 A1, US5584165 A, US5474788 A, US5466473 A, US5334400 A, US5290574 A, US4832968 A, US4627986 A, US4524805 A, GB2280887 A1, GB2280886 A1, GB2279057 A1, GB2272417 A1, GB2272199 A1, GB2268923 A1, GB2268151 A1, GB2267882 A1, GB2183592 A1, GB2141413 A1, GB1331425 A, GB1266351 A, GB1066508 A, EP0594221 A1, EP0577284 A2, EP0520646 A1, EP0349053 A1, AU7267694 A1, AU6975394 A1, AU6217194 A1, AU2890692 A1,

Forward Citations: WO9810999, WO9700214, WO9700214, WO9638350, WO9631743, WO9620883, WO08020174, WO07081210, WO07081199, WO05042376, WO04054896, WO0069746, WO0064781, WO0026114, WO0026113, USD635401, USD635399, USD630060, US9346575, US9327462, US9078535, US9038845, US9028898, US8939312, US8469221, US8133525, US8051674, US8007880, US7832184, US7802678, US7798360, US7757889, US7678398, US7604826, US7588142, US7228789, US6883714, US6877601, US6818237, US6725589, US6695138, US6551638, US6520323, US6427864, US6390292, US6269946, US6269945, US6213294, US6042022, US6023915, US5780083, US5714186, US5705210, US5705209, US5692381, US5683732, US2013118123, US2011151085, US2010200588, US2010163436, US2010159077, US2010024660, US2010009052, US2010006573, US2009301032, US2009162501, US2008286421, US2008245801, US2008017652, US2007170204, US2007138033, US2007009633, US2006213788, US2006153956, US2006037961, US2004228955, US2002189704, US2002040906, GB2440930, GB2407806, GB2322614, GB2321042, GB2321042, GB2310190, GB2310190, GB2305159, GB2305158, GB2286379, GB2286379, GB2285793, GB2285793, GB2285792, GB2284403, FR2732757, EP1572553, EP1185465, EP1055614, EP1042188, EP1004520, EP0854089, EP0833788, EA014514, DE20106836, DE10258791, CN105270769, AU775286, AU760741, AU730356, AU730356,

Abstract:

Source: US5584165A PCT No. PCT/GB94/01312 Sec. 371 Date Sep. 25, 1995 Sec. 102(e) Date Sep. 25, 1995 PCT Filed Jun. 17, 1994 PCT Pub. No. WO95/00415 PCT Pub. Date Jan. 5, 1995 An insert (10, 12) for use in providing a creamy head on a carbonated beverage dispensed from a beverage container (50) comprises a restricted orifice (20) for providing communication between its inside and outside, and a pressurized gas contained inside. The restricted orifice (20) is separated from the pressurized gas by a closure (22) which is arranged to be permanently and irreversibly opened on being subjected to a temperature above a predetermined threshold, or on being subjected to a pressure difference in which the pressure outside the insert (10, 12) exceeds that within. This enables the insert to be pre-pressurized and completely closed and stable during insertion into the container (50) and during filling. Then the closure (22) is permanently and irreversibly opened during a subsequent pasteurization step to ensure that all of the gas is vented from the insert (10, 12) on opening the container (50).

0) US2011108447A – SHRINK SLEEVE ON BOTTLE WITH INTEGRAL DIP TUBE ...

45) Family number: 48874322 (US2011108447A)

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Title: SHRINK SLEEVE ON BOTTLE WITH INTEGRAL DIP TUBE

Priority: EP20100830522 20101101 US20090616282 20091111 US20110020645 20110203
US20110020657 20110203 US20120626828 20120925 US20100731983 20100325
WO2010US54918 20101101 US20130098420 20131205 US20130786058 20130305

Family:

Publication number	Publication date	Application number	Application date
AR078962 AA	20111214	AR2010P104169	20101110
AU2010319758 AA	20110519	AU20100319758	20101101
AU2010319758 BB	20130502	AU20100319758	20101101
CA2777833 AA	20110519	CA20102777833	20101101
CA2777833 C	20160628	CA20102777833	20101101
CL2012001190 A1	20120928	CL20120001190	20120507
CL52751 B	20160713	CL20120001190	20120507
CN203061340 U	20130717	CN201090001264U	20101101
DE602010016324 D1	20140710	DE201060016324T	20101101
EP2498917 A1	20120919	EP20100830522	20101101
EP2498917 A4	20130522	EP20100830522	20101101
EP2498917 B1	20140521	EP20100830522	20101101
ES2493920 T3	20140912	ES20100830522T	20101101
JP3179669 U	20121115	JP20120600047U	20101101
MX2012005465 A1	20120608	MX20120005465	20101101
US2011108447 AA	20110512	US20100731983	20100325
US2011108581 AA	20110512	US20090616282	20091111
US2011121039 AA	20110526	US20110020645	20110203
US2011163184 AA	20110707	US20110020657	20110203
US2013020354 AA	20130124	US20120626828	20120925
US2013181011 AA	20130718	US20130786058	20130305
US2014091111 AA	20140403	US20130098420	20131205
US8297479 BB	20121030	US20100731983	20100325
US8408429 BB	20130402	US20090616282	20091111
US8408430 BB	20130402	US20110020645	20110203
US8453950 BB	20130604	US20110020657	20110203
US8608033 BB	20131217	US20120626828	20120925
US8627985 BB	20140114	US20130786058	20130305
US8839992 BB	20140923	US20130098420	20131205
WO11059844 A1	20110519	WO2010US54918	20101101

Probable Assignee: CLOROX CO

Assignee(s):^(std): CLOROX CO ; DENNIS STEPHEN R ; HOEFING REBECCA

Assignee(s): THE CLOROX COMPANY ; CLOROX CO OAKLAND

Inventor(s):^(std): HOEFING REBECCA ; STEPHEN R DENNIS ; DENNIS STEPHEN R

Inventor(s): DENNIS STEPHEN R DANVILLE ; STEPHEN RDENNIS ; STEPHEN R ; DENNIS

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ESTUDIO CAREY LTDA; V BEZOLD AND PARTNER PATENTANWALTE PARTG MBB; MILLER JAMES LIONEL WOOLVERTON; ISERN JORGE; THOMAS C; ERIN; PETERSON DAVID 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
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 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

International class (IPC 8-9): B05B11/00 B05B15/00 B05B7/28 B05B7/30 B23P19/04 B65D1/02 B65D47/34 B65D83/00 B65D83/76 B65D85/00 B67D7/06 B67D7/58 B67D7/60 (Advanced/Invention);
B67D7/78 (Advanced/Non-invention)

International class (IPC 1-7): B65D83/32

CPC: B65D23/0878 B05B11/3057 B05B11/0089 B05B11/001 B05B11/0037 B05B11/3011 B05B11/3045 B05B15/005

European class: B05B11/00B1D B05B11/00B5 B05B11/30H1B B05B15/00E B65D23/08D5 L05B11/30C5B

US class: 206/459.5 206/459.500P 222/341 222/382 222/383.1 222/383.100P 222/383.100S 222/383.3 222/464.1 222/464.100S 222/530 239/315 239/315P 239/317 239/318 239/333 29/428

[Classification Explorer](#)

Cited documents: USRE33480 E, US8038040 BB, US7963425 BB, US7703703 BB, US7594594 BB, US7490743 BB, US7478739 BB, US7325706 BB, US7032841 BA, US6869028 BB, US6820769 BB, US6702157 BA, US6419128 BA, US6409052 BA, US6378741 BA, US6367665 BA, US6213358 BA, US6135323 A, US6050459 A, US5988456 A, US5638994 A, US5593093 A, US5573046 A, US5558257 A, US5553750 A, US5479970 A, US5469993 A, US5464129 A, US5433350 A, US5337928 A, US5303851 A, US5246146 A, US5192007 A, US5183206 A, US5152431 A, US4863071 A, US4770323 A, US4608284 A, US4600130 A, US4475689 A, US2536361 A, US2011180100 AA, US2011036927 AA, US2010096415 AA, US2009212077 AA, US2007215646 AA, US2006289679 AA, US2006141182 AA, US2006086759 AA, US2005274687 AA,

Forward Citations: WO14138421, USD751407, USD736637, USD736089, USD722879, USD663627, USD662420, USD660714, USD660171, US9776772, US9731307, US9555427, US9387500, US9283581, US9266133, US9216431, US9132440, US9038819, US8967434, US8931668, US8905270, US8881953, US8870033, US8827122, US8800822, US2015151316, US2014367423, US2014110439, US2014061253, US2014061252, US2014001214, US2013161359, US2013026192, US2012261439, US2012234872, US2012234871, US2012234870, EP3173153, EP2803419, EP2628548, EP2628548,

Abstract:

Source: US2011108447A Described is a shrink sleeve label for a fluid dispensing container having a bottle and fluid withdrawing assembly for liquids, such as liquid cleaners and the like. The bottle has an external integral dip tube formed at the bottle front surface and separated from the bottle by a partition. The integral dip tube fluidly connects to the bottle interior at a landing below the top of the bottle neck. A fluid dispensing mechanism, such as a pump or trigger-sprayer, is attached to the top of the bottle to take fluid up through the integral dip tube and dispense the fluid accordingly. The shrink sleeve label covers the bottle, the integral dip tube and the partition.

0) US2002030031A – TAMPER EVIDENT CLOSURE

46) Family number: 34432422 (US2002030031A)

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Title: Tamper evident closure

Priority: AU1992PL03569 19920716 AU1992PL05933 19921118 IL19930106350 19930714
 EP19930915531 19930714 EP19980201802 19930714 AU19930045484 19930714
 IN1996CA00630 19960408 IN1993CA00405 19930715 NZ19930253982 19930714
 US20010988170 20011119 US19990268324 19990316 US19970922453 19970903
 US19950374534 19950307 JP19940504021 19930714 WO1993AU00352 19930714

Family:

Publication number	Publication date	Application number	Application date
AT174291 E	19981215	AT19930915531T	19930714
AT252026 E	20031115	AT19930201802T	19930714
AT327177 E	20060615	AT19930013299T	19930714
AU199345484 A1	19940214	AU19930045484	19930714
AU668197 B2	19960426	AU19930045484	19930714
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DE69322514 T3	20031120	DE19936022514T	19930714
DE69333254 D1	20031120	DE19936033254	19930714
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DE69334022 D1	20060629	DE19936034022	19930714
DE69334022 T2	20061207	DE19936034022T	19930714
DK0650444 T3	19990816	DK19930915531T	19930714
DK0650444 T4	20030324	DK19930915531T	19930714
DK0870693 T3	20031222	DK19930201802T	19930714
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EP0650444 B2	20021204	EP19930915531	19930714
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ES2126651 T5	20030701	ES19930915531T	19930714
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ES2261554 T3	20061116	ES20020013299T	19930714
GR3029557 T3	19990630	GR19990400641T	19990304
HU218169 B	20000628	HU19940003683	19930714
HU69603 A2	19950928	HU19940003683	19930714

<u>HU9403683 A0</u>	19950228	HU19940003683	19930714
<u>ID23582 A</u>	19940513	ID19930000245	19930716
<u>IL106350 A1</u>	19960723	IL19930106350	19930714
<u>IL116860 A0</u>	19960723	IL19960116860	19960122
<u>IL116860 A1</u>	19990411	IL19930116860	19930714
<u>IN179215 A</u>	19970920	IN1993CA00405	19930715
<u>IN181639 A</u>	19980801	IN1996CA00630	19960408
<u>JP2003095298 A2</u>	20030403	JP20020255780	20020830
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<u>KR100226529 B1</u>	19991015	KR19950700163	19950114
<u>KR19950702494 A</u>	19950729	KR19950700163	19930714
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<u>MY122546 A</u>	20060429	MY19930001343	19930708
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<u>RU95106777 A</u>	19971227	RU19950106777	19950215
<u>SA271 B1</u>	20050207	SA19930140233	19931003
<u>SG40024 A1</u>	19970614	SG19950001168	19930714
<u>TH13104 B</u>	20020625	TH19931001242	19930715
<u>TH20807 A</u>	19960924	TH19931001242	19930715
<u>TH27015 B</u>	20091112	TH20021001170	19930715
<u>TH57925 A</u>	20030825	TH20021001170	19930715
<u>TW233286 B</u>	19941101	TW19930105560	19930713
<u>US2002030031 AA</u>	20020314	US20010988170	20011119
<u>US6089390 A</u>	20000718	US19970922453	19970903
<u>US6325225 BA</u>	20011204	US19990268324	19990316
<u>US6705479 BB</u>	20040316	US20010988170	20011119
<u>VN346 A1</u>	19970525	VN19940000947	19941219
<u>WO9402371 A1</u>	19940203	WO1993AU00352	19930714
<u>ZA9304880 A</u>	19940606	ZA19930004880	19930707

Probable Assignee: BERRY PLASTICS CORP

Assignee(s):^(std): CLOSURES AND PACKAGING SERV LTD ; DRIUTT RODNEY MALCOLM ; DRIUTT RODNEY MALCOLM ; CLOSURES AND PACKAGING SERVICES LTD ; PRECISION VALVE AUSTRALIA ; RODNEY MALCOLM DRIUTT ; PREC VALVE AUSTRALIA PTY LTD ; MK PLASTICS PTY LTD ; TANSEY CHARLES MARTIN

Assignee(s): PRECISION VALVE AUSTRALIA PTY LTDAU ; PRESIZHN VEHLV AUSTREHLIA PTI LTD. ; MARSH PETER CRISPIN LAWRENCE ; M.K. Plastics Pty ; RODNEY MALCOLM DRIUTT OF DIGBY COTTAGE NORTH LUFFENHAM HALL ; REXAM CLOSURE SYSTEMS LLC ; RODNI MEHLKOM DRIUTT ; PRECISION VALVE AUSTRALIA PTY LIMITED ; PRECISION VALVE AUSTRALIA PTY LTD ; PRECISION VALVE TRALIA PTY LTD ; R C S RAIL ROAD CONSTRUCTION SAAR GMBH ; PRESISION VALVE AUSTRALIA PTY LTD ; CLOSURES AND PACKAGING SERVICES LTD ST PETER PORT ; CLOSURES AND PACKAGING SERVICES LTD GUERNSEY ; CLOSURES AND PACKAGING SERVICES LTD ST PETER PORT GB ; CLOSURES AND PACKAGING SERVICES LTD APPLICANT SUBSTITUTED UNDER S ; Ltd. ; M K PLASTICS PTY LTD ; CLOSURES AND PACKAGING SERVICES LTD (APPLICANT... ; CLOSURES AND PACKAGING SERVICES LIMITED ; BERRY PLASTICS CORP ; CLOSING AND PACKAGING SERVICE CO ; CLOSING AND PACKAGING SERVICE CO LTD

Inventor(s):^(std): DRUITT RODNEY MALCOLM ; TANSEY CHARLES MARTIN

Inventor(s): TANSEY CHARLES MARTIN PENSHURST NSW 2222 AU ; C M TANSEY ; CHARL Z MARTIN TEHNSI ; CHARLES MARTIN TANSEY ; CHARL'Z MARTIN TEHNSI[AU] ; Druitt ; DRUITT RODNEY ; DRUITT RODNEY M ; DRUITT RODNEY MALCOLM BILBURY GLOUCESTERSHIRE GB ; DRUITT RODNEY MALCOLM NORTH LUFFENHAM RUTLAND ; DRUITT RODNEY MALCOLM NORTH LUFFENHAM RUTLAND LE1 58JR GB ; DRUITT RODNEY MALCOM ; R M DRUITT ; Rodney Malcolm ; RODNEY MALCOLM DRUITT ; RODNEY MALCOM DRUITT ; RODNI MEHLKOM DRUITT ; RODNI MEHLKOM DRUITT[AU] ; STULZ MEINHARD ; TANSEY CHARLES ; TANSEY CHARLES M ; TANSEY CHARLES MARTAIN

Agent(s): FB RICE; FB RICE PTY LTD; KIRBY EADES GALE BAKER; REINHOLD COHN AND PARTNERS; SANFORD TCOLB AND CO

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US VN

International class
(IPC 8-9): B29C45/26 B65D41/32 B65D41/34 B65D49/12 B65D53/02 B65D55/02 H04L12/28 H04L12/46 H04L29/08 (Advanced/Invention);
B65D41/32 B65D41/34 (Advanced/Non-invention);
B65D41/34 B65D55/02 H04L12/28 H04L12/46 H04L29/08 (Core/Invention);
B65D41/32 (Core/Non-invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): B29C45/00 B29C45/26 B29C45/40 B45D41/34 B65D41/04 B65D41/32 B65D41/34 B65D41/43 B65D49/12 B65D51/08 B65D51/16 B65D53/00 B65D55/02 B65D56/02

CPC: B65D41/3447

European class: B65D41/34D1

US class: 215/252 215/307 215/344 215/344S 264/328.1 264/328.100S 264/334 425/547

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Forward Citations: WO9629257, WO9608420, WO13088809, WO12135906, WO12095501, US9511905, US8844770, US8807360, US8695821, US8668097, US8650839, US8517194, US8251236, US8242915, US8100277, US7975864, US7808965, US7798359, US7789254, US7780024, US7766178, US7645414, US7644902, US7575123,

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Abstract:

Source: US2002030031A A container closer (10) particularly for use on screw top containers such as carbonated beverage containers, the container closure (10) having a generally cylindrical continuous tamper evident band (11) joined by a plurality of frangible bridges (13) to the free edge of a skirt (16) of the closure (10). The band (11) has a segmented internal rib (18) which engages an external retaining flange of the container when the closure (10) is applied to the container so that on removal of the closure (10) the tamper evident band (11) remains on the container or is visually clearly damaged by removal of the closure (10) from the container. The band (11) is provided with longitudinal reinforcement by projections (25 and 28) or other areas of thickening (26) to provide the band (11) with longitudinal stiffness while still permitting it to expand over the retaining flange on the container. The rib (18) has a first annular side (21), the first annular side (21) having a compound surface comprising a radially outer frusto-conical to (23) which assists in the molding of the rib (18) and a radially inner substantially planar portion (24) which increases the difficulty of removing the closure (10) intact from the container without rupturing the bridges joining the tamper evident band (11) from the remainder of the closure (10).

47) Family number: 46628648 (US2012024160A)

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Title: COFFEE BEAN PACKAGING CARTRIDGE AND COFFEE BEVERAGE SYSTEM INCLUDING SAME

Priority: AU20100216509 20100217 AU20110216590 20110217 CA20162752745 20161209
CA20102752745 20100217 AU20170200772 20170203 CN201180019436 20110217
EP20100705202 20100217 EP20110154806 20110217 JP20110551024 20100217
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US20140333364 20140716 US20120587730 20120816

Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): PHILIPS ELECTRONICS KONINKLL NV ; SARA LEE DE N V NULL ; PHILIPS ELECTRONIC KONINKLL NV ; SARA LEE DE N V ; KONINKLEJKE FILIPS EHLEKTRONIKS NV ; KONINKLIJKE PHILIPS NV ; KONINKLIJKE DOUWE EGBERTS BV ; KONINKLIJKE DOUWE EGBERTS B V ; KONINKLIJKE PHILIPS ELECTRONIC N V

; KONINKLIJKE PHILIPS ELECTRONICS N V NULL ; KONINKLIJKE PHILIPS ELECTRONICS N V ; DOUWE EGBERTS KONINKLL BV

Inventor(s):^(std):

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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 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 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

International class
(IPC 8-9):

A23F5/00 A23F5/08 A23F5/26 A23L1/28 A47J31/00 A47J31/057 A47J31/06 A47J31/10 A47J31/34 A47J31/36 A47J31/40 A47J31/42 A47J31/44 A47J31/46 A47J42/40 A47J42/42 A47J42/50 B65B1/04 B65B1/12 B65B3/04 B65D83/04 B65D83/06 B65D85/00 B65D85/804 (Advanced/Invention);
A47J31/36 A47J31/52 B65D85/804 (Advanced/Non-invention);
A47J31/40 A47J31/42 A47J42/00 (Core/Invention)

International class
(IPC 1-7):

A47J31/40 A47J31/42 A47J42/50

CPC:

A23F5/26 B65B1/12 A23F5/262 A47J31/404 A47J31/3614 A47J31/52 B65D85/8043 A47J31/42 A47J31/44 A47J42/00 A47J31/00 A47J31/40 A47J42/50

European class:

A47J31/40 A47J31/42 A47J42/50

US class:

1/1 141/1 141/108 141/311R 141/331 141/344 141/386 141/67 241/6 426/115 426/115S 426/231 426/433 426/518 99/280 99/280P 99/285 99/286 99/289R

[Classification Explorer](#)

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DE102007008900 A1

DE102007008898 A1

DE102007008898, DE1020070088, DE02926389, DE000020300928 U, CN2684713 Y, CN2684712 Y, CN2624781 Y, CN2606563 Y, CN201005518 Y, CN201005518 A, CN1830369 A, CN1413340 A, CN1313065 A, CN101268915 A, CN101212921 A,

Forward Citations:

WO16113258, WO15180803, WO15104192, WO15078662, WO14185783, WO14184777, WO14045230, WO14045196, WO13057625, WO13057625, WO13048707, WO11102721, USD752910, USD751330, USD750408, USD750407, USD745306, USD745305, USD745304, USD745303, USD743729, USD743198, USD742158, USD741638, US9783361, US9770131, US9737041, US9723943, US9700171, US9688465, US9648982, US9622618, US9510710, US9439390, US9428329, US9428328, US9414710, US9339141, US9277838, US9265377, US9011955, US8944354, US8776671, US8763942, US2017027374, US2016095462, US2016066742, US2016015215, US2015351421, US2015157167, US2015144720, US2015140184, US2015118367, US2014361107, US2014007775, US2013213240, US2013101717, US2013095218, US2012138721, US2011256273, RU2633216, RU2596961, JP6223344, JP6006800, JP5966098, JP5702868, JP5599125, JP2016514978, JP2015535701, JP2014533159, JP2014530700, JP2014530684, JP2014506828, JP2014506820, JP2012517879, ITMI20131974, FR3031441, EP3225142, EP3216374, EP3135161, EP3028609, EP2436288, DE202011109913, CN105101851, CN104837387, CN104812278, CN104159480, CN104159480, CN103874440, CN103654464, AU2012324492,

Abstract:

Source: US2012024160A A coffee bean packaging cartridge for holding and supplying multiple servings of coffee beans can be connected to a coffee beverage system. The cartridge includes a container having an outer wall defining an interior volume and an opening at one end thereof. A permanent, preferably non-removable closure member is fitted to the one end of the container and substantially covers the opening. An exit passage in the closure member, defines a coffee bean outlet, for transferring coffee beans from the interior volume. The closure member further has relatively movable closing means for selectively closing the exit passage to reduce exposure of the coffee bean contents to surrounding air. The cartridge further includes connecting means for connecting the cartridge to a coffee beverage system. There is also provided a coffee beverage system that includes the coffee bean packaging cartridge as defined above and at least a dosing device and a grinding mechanism. The dosing device may includes a metering chamber for receiving a portion of coffee beans corresponding to an amount necessary for preparing a single serving of coffee beverage.

0) US2005072181A – CONTAINER WITH COVER

48) Family number: 31847036 (US2005072181A)

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Title: CONTAINER WITH COVER

Priority: AU20040216674 20041001 AU20120216548 20120830 AU20150203857 20150709
CA20042483772 20041001 CA20052503470 20050401 US20030674795 20031001
CA20032444155 20031001 CA20032509503 20031001 CA20042438772 20041001
US20090619410 20091116 US20050095648 20050401 US20040954419 20041001
US20100839928 20100720 US20050096273 20050401 US20050145224 20050606
US20100956861 20101130 US20110176308 20110705

Family:	Publication number	Publication date	Application number	Application date
	<u>AU2004216674 AA</u>	20050421	AU20040216674	20041001
	<u>AU2004216674 BB</u>	20120531	AU20040216674	20041001
	<u>AU2012216548 AA</u>	20120920	AU20120216548	20120830
	<u>AU2012216548 BB</u>	20150409	AU20120216548	20120830
	<u>AU2015203857 AA</u>	20150730	AU20150203857	20150709
	<u>CA2444155 AA</u>	20050401	CA20032444155	20031001
	<u>CA2444155 C</u>	20160105	CA20032444155	20031001
	<u>CA2483772 AA</u>	20050401	CA20042483772	20041001
	<u>CA2483772 C</u>	20140429	CA20042483772	20041001
	<u>CA2503470 AA</u>	20060401	CA20052503470	20050401
	<u>CA2503470 C</u>	20130924	CA20052503470	20050401
	<u>CA2509503 AA</u>	20050401	CA20032509503	20031001
	<u>CA2509503 C</u>	20130108	CA20032509503	20031001
	<u>US2005072181 AA</u>	20050407	US20030674795	20031001
	<u>US2005103044 AA</u>	20050519	US20040954419	20041001
	<u>US2005198992 AA</u>	20050915	US20050095648	20050401
	<u>US2005205459 AA</u>	20050922	US20050096273	20050401
	<u>US2005210912 AA</u>	20050929	US20050145224	20050606
	<u>US2010116830 AA</u>	20100513	US20090619410	20091116
	<u>US2010282763 AA</u>	20101111	US20100839928	20100720
	<u>US2011127274 AA</u>	20110602	US20100956861	20101130
	<u>US2011259898 AA</u>	20111027	US20110176308	20110705
	<u>US7162890 BB</u>	20070116	US20030674795	20031001
	<u>US7669436 BB</u>	20100302	US20050095648	20050401
	<u>US7757878 BB</u>	20100720	US20050145224	20050606
	<u>US7841207 BB</u>	20101130	US20040954419	20041001
	<u>US7988006 BB</u>	20110802	US20100839928	20100720
	<u>US8061159 BB</u>	20111122	US20050096273	20050401
	<u>US8459058 BB</u>	20130611	US20100956861	20101130
	<u>US8857654 BB</u>	20141014	US20110176308	20110705
	<u>US8899071 BB</u>	20141202	US20090619410	20091116

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International class
(IPC 8-9): A45C11/20 A61M1/00 B65D21/02 B65D25/00 B65D25/04 B65D25/28 B65D43/16 B65D53/00 B65D77/04 B65D81/38 F25D3/08 (Advanced/Invention);
A45C13/00 A45C13/02 A45C13/26 A45C5/06 A45C7/00 A47G19/00 A47J41/00 (Advanced/Non-invention);
B65D25/02 B65D43/16 (Core/Invention)

International class
(IPC 1-7): A45C11/20 A47J39/00 A47J41/00 A47J47/14 A61M1/00 B65D1/22 B65D1/42 B65D25/02 B65D43/16 B65D53/00 B65D77/04 B65D81/38 B65D83/72 F25D3/00 F25D3/08

CPC: A45C7/0077 B65D81/3858 F25D3/08 F25D2303/0822 F25D2303/08222 F25D2331/803 F25D2331/804 F25D2331/805 A45C11/20 A45C5/06 A45C13/008 A45C13/02 A45C13/26

European class: A45C11/20 B65D81/38G4 F25D3/08 K45C13/00W K45C13/02 K45C13/26 K45C5/06 K45C7/00D3 R25D303/0822 R25D303/08222 R25D331/803 R25D331/804 R25D331/805

US class: 206/545 220/23.86 220/23.88 220/23.89 220/530 220/592.01 220/592.03 220/592.030P 220/592.2 220/592.200P 220/592.200S 220/752 62/371 62/457.1 62/457.5 62/457.500 62/457.500S 62/457.7 62/457.700P 62/457.700S 62/530

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Abstract:

Source: US2005072181A A soft sided insulated container assembly includes a first portion having an insulated, soft sided external wall structure, and an internal, substantially rigid molded plastic receptacle mounted therein. It has a cover structure that includes a reinforcement member for engaging a land region of the molded receptacle, thereby tending to yield an interface tending to have a sealing relationship. The container may also include a thermal storage element, and the container may have an accommodation for receiving the thermal storage element.

Title: BOTTLE STOPPER**Priority:** GB20040000712 20040114 GB20040015520 20040114 WO2005GB00103 20050113**Family:**

Publication number	Publication date	Application number	Application date
<u>EP1713699 A1</u>	20061025	EP20050701871	20050113
GB2004000712 A0	20040218	GB20040000712	20040114
GB200407398 A0	20040505	GB20040007398	20040114
GB200415520 A0	20040811	GB20040015520	20040114
<u>GB2397296 A1</u>	20040721	GB20040000712	20040114
<u>GB2397296 B2</u>	20041201	GB20040000712	20040114
<u>GB2397297 A1</u>	20040721	GB20040007398	20040114
<u>GB2397297 B2</u>	20041201	GB20040007398	20040114
<u>GB2401862 A1</u>	20041124	GB20040015520	20040114
<u>GB2401862 B2</u>	20050413	GB20040015520	20040114
<u>US2008272085 AA</u>	20081106	US20050597073	20050113
<u>WO05068315 A1</u>	20050728	WO2005GB00103	20050113

Probable Assignee: PORTA GIOVANNI M**Assignee(s):^(std):** LA PORTA GIOVANNI MARIA ; PORTA GIOVANNI M ; LAPORTA GIOVANNI M ; LAPORTA GIOVANNI MARIA**Assignee(s):** GIOVANNI MARIA LA PORTA ; GIOVANNI MARIA LAPORTA ; LA PORTA GIOVANNI M**Inventor(s):^(std):** LAPORTA GIOVANNI MARIA ; LA PORTA GIOVANNI MARIA**Inventor(s):** GIOVANNI MARIA LAPORTA ; GIOVANNI MARIA LA PORTA**Agent(s):** HAYES SOLOWAY PC**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**International class**
(IPC 8-9): B65D39/00 B65D39/12 B65D39/16 B65D51/24 B65D51/28 B65D81/26 C12H1/14 (Advanced/Invention);
B65D39/00 B65D51/24 B65D81/26 C12H1/00 (Core/Invention)**International class**
(IPC 1-7): B65D39/00 B65D39/12 B65D39/16 B65D51/24 B65D51/28**CPC:** B65D39/0052 B65D39/0064 B65D39/12 B65D39/16 B65D51/244 B65D51/28 B65D81/266 B65D2203/12 C12H1/14**European class:** B65D39/00G B65D39/00G2 B65D39/12 B65D39/16 B65D51/24E B65D51/28 B65D81/26F C12H1/14 L65D203/12**US class:** 215/228 215/230 215/296 215/358 215/364[Classification Explorer](#)**Cited documents:** US5617812 A, US4838442 A, US4756436 A, US4526752 A, US4421235 A, US4287995 A, GB650296 A, GB1241985 A, EP1300342 A1, EP0269066 A1, DE10161185 C1,**Forward Citations:** WO16010544, WO14102691, WO13068622, WO13028357, WO13028357, WO12004446, WO11014790, WO07059902, WO07059902, USD683580, USD677118, USD675059, USD640561, US9314121, US9027774, US8714383, US8640746, US2016207752, US2015217912, US2014312000, US2013043215, US2012241453, US2011126939, US2010012612, US2008290062, JP2011240991, GB2474294, FR3000476, ES2412529, ES2374346, EP3102500, EP2458370, EP2308770,

Abstract:

Source: US2008272085A In one aspect the invention provides a bottle stopper for a wine bottle or the like, which bottle stopper comprises a body having a sealing member which sits within the neck (1) of the bottle in use and which extends radially outwardly from the body of the stopper to seal the bottle neck, the stopper further having a passageway extending upwardly therethrough to communicate with the interior of the bottle and which incorporates or communicates with a chamber within the stopper in which is housed an oxygen-scavenging medium. In a further aspect the invention provides a bottle stopper for a wine bottle or the like, which bottle stopper comprises a body having a sealing member (30, 31) which sits within the neck of the bottle in use and which extends radially outwardly from the body of the stopper to seal the bottle neck, the bottle stopper further having a mechanism for compressing the sealing member substantially axially of the stopper to expand the sealing member laterally/substantially radially of the stopper into sealing contact with the neck of the bottle.

0) US2014049651A – ON-DEMAND CREATION OF REPORTS

50) Family number: 55801357 (US2014049651A)

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Title: ON-DEMAND CREATION OF REPORTS

Priority:

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Family:

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<u>WO14092816 A3</u>	20150716	WO2013US55374	20130816	
<u>WO14092817 A1</u>	20140619	WO2013US55542	20130819	

Probable Assignee: HISENSE INT CO LTD

Assignee(s):^(std): BEDFORD IND INC ; FLEXTRONICS AP LLC ; HU XUAN ; JAMDEO TECHNOLOGIES LTD ; HISENSE INT CO LTD ; HISENSE USA CORP ; JAMDEO TECH LTD ; ZHANG XIN ; ZWIERSTRA JAN BRIAN

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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 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

International class
(IPC 8-9): B32B37/12 B32B37/18 B32B38/00 B32B38/10 B65D23/14 B65D25/20 B65D33/16 B65D65/14 B65D73/00 F21V19/02 F21V33/00 F21V5/04 G06F12/00 G06F12/12 G06F13/00 G06F13/14 G06F15/16 G06F17/30 G06F3/00 G06F3/01 G06F3/048 G06F3/0481 G06F3/0482 G06F3/0484 G06F3/0488 G06F9/34 G06Q30/00 G09F3/14 H04B1/16 H04H60/29 H04H60/32 H04H60/33 H04H60/72 H04L12/58 H04N1/00 H04N17/00 H04N17/04 H04N21/2187 H04N21/231 H04N21/2343 H04N21/235 H04N21/25 H04N21/254 H04N21/2543 H04N21/258 H04N21/262 H04N21/266 H04N21/40 H04N21/41 H04N21/414 H04N21/422 H04N21/426 H04N21/43 H04N21/431 H04N21/432 H04N21/433 H04N21/435 H04N21/436 H04N21/437 H04N21/439 H04N21/441 H04N21/4415 H04N21/442 H04N21/443 H04N21/45 H04N21/462 H04N21/466 H04N21/47 H04N21/472 H04N21/4725 H04N21/475 H04N21/478 H04N21/4782 H04N21/4788 H04N21/482 H04N21/485 H04N21/488 H04N21/61 H04N21/658 H04N21/81 H04N21/8358 H04N21/84 H04N21/85 H04N21/8545 H04N5/00 H04N5/44 H04N5/445 H04N5/45 H04N5/455 H04N5/50 H04N7/00 H04N7/10 H04N7/14 H04N7/16 H04N7/173 H04W80/04 (Advanced/Invention);
H04N21/433 H04N5/44 H04N5/45 (Advanced/Non-invention)

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Forward Citations: WO17142728, WO17111252, WO17053950, WO17046631, WO17040549, WO17000721, WO17000695, WO16107327, WO16010914, WO16004199, WO15160039, USD799511, USD794071, USD787530, USD787529, USD786889, USD785601, USD785600, USD785003, USD782495, USD778250, USD775106, USD774062, USD773506, USD772912, USD761860, USD761320, USD761310, USD760733, USD759040, USD758352, USD754694, USD754167, USD754152, USD753149, USD753146, USD753143, USD753142, USD752606, USD749547, USD748664, USD748663, USD741895, USD730918, USD724058, USD719968, USD714738, US9820003, US9819986, US9819985, US9813752, US9807471, US9807446, US9807444, US9805721, US9804737, US9799125, US9788067, US9787799, US9787627, US9785316, US9779775, US9779307, US9774918, US9769529, US9766776, US9749585, US9746838, US9721587, US9706831, US9705743, US9699499, US9693107, US9686582, US9686575, US9677726, US9674570, US9672427, US9665647, US9665240, US9661254, US9659003, US9654577, US9652818, US9639611, US9628839, US9615123, US9609380, US9602860, US9601108, US9584855, US9582148, US9582145, US9578384, US9578351, US9560399, US9552795, US9544636, US9542078, US9524706, US9521459, US9510056, US9510040, US9503798, US9501915, US9497500, US9495457, US9489580,

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Abstract:

Source: US2014049651A An intelligent television is provided. One aspect of the intelligent television is the ability to preserve status information across power cycles. Once a report is generated, the intelligent television may then transmit the report to a recipient, such as a server. If any one or more reports are successfully sent, they may then be deleted from a memory, storage device, or other non-volatile memory associated with the intelligent television.

- **search:** SS3 TAC=(bottle or (beverage container)) and IC=B65D and FT=(internal* W3 (embossment or stopper or vented* or surfaces or projections) and neck) and PD<20140606 (Results 420)
- **List:** SS3 1-50 (TAC=(bottle or (beverage container)) and IC=B65D and FT=(internal* W3 (embossment or stopper or vented* or surfaces or projections) and neck) and PD<20140606) (Results 420)

1) Family number: 30071089 (US2001013500A)

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Title: Apparatus for opening a bottle sealed with a cork stopper

Priority: US19960746799 19961118 US19990273838 19990322 US20010760375 20010112
 US20020306633 20021127 US20030443461 20030521 US20020433020P 20021213
 US20020382410P 20020521 US20030735283 20031212 US20030443020P 20030127
 US20030735277 20031212 US20030735282 20031212 US20030735281 20031212
 WO2003US16154 20030521 WO2001US51643 20011214

Family:

Publication number	Publication date	Application number	Application date
AU2001297827 AA	20021125	AU20010297827	20011214
AU2003247398 AA	20031212	AU20030247398	20030521
CA2434113 AA	20030711	CA20012434113	20011214
EP1351863 A2	20031015	EP20010273951	20011214
EP1515900 A1	20050323	EP20030755431	20030521
US2001013500 AA	20010816	US20010760375	20010112
US2003146184 AA	20030807	US20020306633	20021127
US2004031770 AA	20040219	US20030443461	20030521
US2004232099 AA	20041125	US20030735281	20031212
US2004232101 AA	20041125	US20030735283	20031212
US2004232102 AA	20041125	US20030735277	20031212
US2005056612 AA	20050317	US20030735282	20031212
US5884789 A	19990323	US19960746799	19961118
US6179140 BA	20010130	US19990273838	19990322
US6510957 BB	20030128	US20010760375	20010112
US6763961 BB	20040720	US20020306633	20021127
WO02092450 A2	20021121	WO2001US51643	20011214
WO02092450 A3	20030403	WO2001US51643	20011214
WO03099671 A1	20031204	WO2003US16154	20030521

Probable Assignee: GARDNER WILLIAM**Assignee(s):^(std):** GARDNER TECHNOLOGIES INC ; GARDNER WILLIAM A ; NOVAK PAUL K ; VIRDEE ALAN ; WHELAN PATRICK M**Assignee(s):** STATISTICAL SIGNAL PROCESSING INC ; GILLEY GIL G ; GARDNER WILLIAM**Inventor(s):^(std):** GARDNER WILLIAM A ; GILLEY GIL G ; WILLIAM A GARDNER ; ALAN VIRDEE ; WHELAN PATRICK M ; VIRDEE ALAN ; NOVAK PAUL K ; PAUL K NOVAK ; PATRICK M WHELAN**Inventor(s):** GARDNER WILLIAM ; WHELAN PATRICK**Agent(s):** GRIFFITH HACK; MARKS AND CLERK; JOHN P OBANION OBANION AND RITCHEY LLP**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI 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**International class**
(IPC 8-9): [B65D1/02](#) [B65D39/00](#) [B65D39/16](#) [B67B7/06](#) (Advanced/Invention);
[B65D1/02](#) [B65D39/00](#) [B67B7/00](#) (Core/Invention)**International class**
(IPC 1-7): [B65B7/28](#) [B65D1/02](#) [B65D39/00](#) [B65D39/16](#) [B65D41/62](#) [B67B7/06](#)**CPC:** [B65D1/0246](#) [B65D39/16](#) [B67B7/06](#) [B65D39/0011](#)**European class:** [B65D1/02D1B](#) [B65D39/00F1](#) [B65D39/16](#) [B67B7/06](#)

US class: 215/211 215/215 215/277 215/296 215/297 215/299 215/32 215/320 215/320S 215/364 215/44 215/44P 8/1.345 81/3.45 81/3.450S

[Classification Explorer](#)

Cited documents: WO9728056 A1, WO0032489 A1, USD457067 S1, USD451400 S1, USD450589 S1, USD383067 S1, USD331367 S1, US884322 A, US778593 A, US773857 A, US6510957 BB, US6415935 BA, US6355320 BA, US6325247 BA, US624384 A, US6179140 BA, US6153275 A, US604062 A, US6029836 A, US5975322 A, US5974322 A, US5944208 A, US5884789 A, US5803281 A, US5755348 A, US5662233 A, US5570798 A, US5495958 A, US5480915 A, US5455180 A, US5431305 A, US5346083 A, US5269429 A, US5209997 A, US5109997 A, US5096083 A, US5080245 A, US5071017 A, US5056676 A, US5012942 A, US4948000 A, US4889251 A, US4844273 A, US4834251 A, US4830970 A, US4812408 A, US4809858 A, US4771923 A, US4767016 A, US4733787 A, US4664276 A, US4605135 A, US4592477 A, US4574662 A, US4493427 A, US4446980 A, US4446673 A, US4436401 A, US4392579 A, US4373641 A, US4360114 A, US4084717 A, US4076142 A, US3994709 A, US3954200 A, US3946891 A, US3944104 A, US3940005 A, US3847295 A, US3831796 A, US3736899 A, US3695475 A, US3612325 A, US3604585 A, US3589983 A, US3556334 A, US3499568 A, US3339772 A, US33364 A, US3307727 A, US3255909 A, US3137748 A, US3101856 A, US3039648 A, US3032225 A, US2987175 A, US2801017 A, US2742170 A, US2521523 A, US2193381 A, US2151826 A, US2001013500 AA, US1942810 A, US1866770 A, US1833971 A, US1818626 A, US1464646 A, US1416616 A, US1341680 A, US1204712 A, US1131985 A, GB128179 A, FR620803 A, FR2766163 A1, FR2444081 A1, FR2280 A, FR2240871 A1, FR1237031 A, EP0842861 A1, DE3123902 A1, DE297516 A, DE2541318 A1, DE2444081 A1, DE197203 A, DE19609487 C1,

Forward Citations: WO9961363, WO14001859, WO13179104, WO11074998, WO11022307, WO11022307, WO10028243, WO07077489, WO07077489, WO06115467, WO06061858, WO06008095, WO03099671, USD474084, US9415904, US9346591, US8915167, US8807363, US8714382, US8672160, US7988019, US7314661, US7290463, US7134362, US6763961, US6568549, US6530295, US6510957, US2016116201, US2015158622, US2014352590, US2013153576, US2011036839, US2011036805, US2011017698, US2009065466, US2009051159, US2009045159, US2008203113, US2008035599, US2007131639, US2007107556, US2007071939, US2006261029, US2006243098, US2005247662, US2004031770, US2003129291, US2003084179, ITVR20130063, EP2588421, EP2467309, EP1716221, EA8461, EA008461, DE102006047040, CN105600102, CN104354976, CN102871547, CN102871547, CN102770349,

Abstract:

Source: US2001013500A An apparatus for removing a cork from a bottle in which an anchor is embedded in the cork and a cork-pulling sleeve is provided for engaging the anchor for removal of the cork. The cork-pulling sleeve includes inner threads that mate with external threads on the neck of the bottle, and rotation of the cork-pulling sleeve in relation to the bottle extracts the cork.

0) US2010264107A – BOTTLE NECK WITH INTERNAL EMBOSSEMENTS AND METHO...

2) Family number: 47333751 (US2010264107A)

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Title: BOTTLE NECK WITH INTERNAL EMBOSSEMENTS AND METHOD MANUFACTURE
Priority: AU20090344840 20090917 AU20140202951 20140530 US20090427169 20090421
 US20120662901 20121029 EP20090736328 20090917 CN200980158896 20090917
 WO2009US57272 20090917 US20130059912 20131022 US20160156059 20160516

Family:	Publication number	Publication date	Application number	Application date
	AR073329 AA	20101028	AR2009P103773	20090930
	AR104612 AB	20170802	AR2016P101381	20160512
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	AR104648 AB	20170802	AR2016P101425	20160516
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	AU2014202951 BB	20160204	AU20140202951	20140530
	CA2759323 AA	20101028	CA20092759323	20090917
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	CN102438908 B	20140226	CN200980158896	20090917
	CN103754447 A	20140430	CN201410017452	20090917
	CN103754447 B	20160406	CN201410017452	20090917
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Probable Assignee: OWENS BROCKWAY GLASS CONTAINER

Assignee(s):^(std): BAILEY VINCENT J ; BECKER BRUCE A ; LONSWAY MICHAEL J ; OUEHNS BROKVEHJ GLASS KONTEJNER INK ; OWENS BROCKWAY GLASS CONTAINER ; OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): OWENS BROCKWAY GLASS CONTAINER INC US ; OWENS BROCKWAY GLASS CONTAINER INC PERRYSBURG

Inventor(s):^(std): BAILEY VINCENT ; BAILEY VINCENT J ; BECKER BRUCE ; BECKER BRUCE A ; LONSWAY MICHAEL ; LONSWAY MICHAEL J ; BEHJLI VINSENT DZH ; BEKKER BRJUS EH ; LONSVEJ MAJKL DZH

Inventor(s): LONSWAY ; BAILEY ; BRUCE A ; BRUCE A BECKER ; LONSWAY MICHAEL J BECKER BRUCE A BAILEY VINCENT J ; LONSWAY MICHAEL J TOLEDO ; LONSWAYN MICHAEL J ; MICHAEL J ; MICHAEL J LONSWAY ; VINCENT J ; VINCENT J BAILEY ; BECKER BRUCE A PERRYSBURG ; BAILEY VINCENT J PERRYSBURG ; BECKER

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON; HUMBERTO RUBIO CAMACHO; BLUMBACH ZINNGREBE PATENT U RECHTSANWALTE; MERGEL VOLKER; BLUMBACH ZINNGREBE; CARVAJAL Y ISABEL; DREW AND NAPIER LLC; OWENS ILLINOIS INC; CONG TY TNH LE AND LE; SMITH SUSAN L

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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): [B01D19/00](#) [B04B3/00](#) [B21D51/26](#) [B29C](#) [B29C49/02](#) [B29C49/04](#) [B65D](#) [B65D1/02](#) [B65D23/00](#) [B65D23/04](#) [B65D47/06](#) [C03B](#) [C03B9/00](#) [C03B9/235](#) [C03B9/325](#) [C03B9/34](#) [C03B9/347](#) (Advanced/Invention); [B29C49/04](#) [B65D1/02](#) [C03B9/325](#) [C03B9/34](#) (Core/Invention); [B65D47/06](#) (Core/Non-invention); [B29C](#) [B65D](#) [C03B](#) (Subclass/Invention)

International class
(IPC 1-7): [B29C 49/04](#) [B29C49/04](#) [B65D 1/02](#) [B65D1/02](#) [C03B 9/325](#) [C03B 9/34](#) [C03B9/325](#) [C03B9/34](#)

CPC: [B65D1/023](#) [B65D1/02](#) [B04B3/00](#) [B29C49/04](#) [B65D23/04](#) [C03B9/34](#) [C03B9/325](#) [B29C49/02](#)

European class: [B65D1/02D1](#) [C03B9/325](#)

US class: [1/1](#) [215/40](#) [215/40P](#) [220/703](#) [264/533](#) [413/1](#) [65/110](#) [65/78](#) [65/78S](#) [65/79](#) [65/79S](#) [95/260](#)

[Classification Explorer](#)

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GB2345480 A1, GB2274277 A1, FR920663 A, FR331391 A, FR2881421 A1, FR2795714 A1, FR2795714, FR1246454 A, EP2421761 A1, EP0909711 A2, EP0667300 B1, EP0667300 A1, EP0027780 B1, EP0027780 A1, DE2459469 A1,

DE202008004366 U1

DE13034 A, CN2743253, CN2303793, CN1398236 A,

Forward Citations: WO16089444, WO14176032, WO14123829, WO14123829, WO14092931, WO13180825, USD740119, USD724947, USD723923, USD707560, USD706635, USD704560, USD704064, USD704063, USD696115, USD658999, USD645354, US9783446, US9694328, US9682881, US9586848, US9499293, US9440761, US9334185, US9283526, US9156719, US9150331, US9067703, US8777029, US8550272, US2014217055, US2013299444, US2013082025, US2012031915, US2012012595, EP3241605, EP2891609, EP2824085, EP2601108, CN106458353, AU2013360197, AU2013267901,

Abstract:

Source: US2010264107A A longneck glass or metal bottle of one-piece integrally formed construction has a body with a closed base and a shoulder at an end of the body remote from the base, and a neck extending from the shoulder along an axis and terminating in a neck finish for attachment of a closure. The bottle neck includes at least one internal embossment for affecting flow of liquid from the body through the neck. In exemplary embodiments of the disclosure, the at least one internal embossment includes at least one internal annular rib or at least one internal rib coplanar with the neck axis or at least one internal spiral rib or at least one internal elliptical rib.

0) US2013270211A – GLASS CONTAINER WITH INTERNALLY THREADED NECK

3) Family number: 50072701 (US2013270211A)

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Title: GLASS CONTAINER WITH INTERNALLY THREADED NECK

Priority: EP20110727645 20110530 EP20110728580 20110530 IT2010MI01085 20100616
FR20100054201 20100531 US20130701279 20130628 US20150836170 20150826
WO2011EP02659 20110530 WO2011EP02664 20110530

Family:

Publication number	Publication date	Application number	Application date
AR081432 AA	20120829	AR2011P101858	20110530
AR081770 AA	20121017	AR2011P101860	20110530
AU2011260659 AA	20111208	AU20110260659	20110530
AU2011260659 BB	20140925	AU20110260659	20110530
AU2011260662 AA	20111208	AU20110260662	20110530
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CN103003163 B	20151209	CN201180037206	20110530
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CN103003207 B	20151125	CN201180037204	20110530
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EP2576359 B1	20170412	EP20110727645	20110530
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EP2576462 B1	20150513	EP20110728580	20110530
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HR20170672 T1	20170714	HR20170000672	20170504
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<u>PE11802013 A1</u>	20131005	PE20120002250	20110530
<u>PE11812013 A1</u>	20131005	PE20120002252	20110530
<u>PL2576359 T3</u>	20170929	PL20110727645T	20110530
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<u>RU2012157073 A</u>	20140720	RU20120157073	20110530
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<u>RU2562501 C2</u>	20150910	RU20120157073	20110530
<u>RU2564293 C2</u>	20150927	RU20120157088	20110530
<u>SG185788 A1</u>	20130130	SG20120087466	20110530
<u>SG185791 A1</u>	20130130	SG20120087607	20110530
<u>SI2576462 T1</u>	20150930	SI20110030562T	20110530
<u>SMT201500138 B</u>	20150907	SM20150000138T	20150616
<u>TH127563 A</u>	20130920	TH20121006253	20110530
<u>TH133389 A</u>	20140506	TH20121006245	20110530
<u>TR201705950 T4</u>	20170522	TR20170005950T	20110530
<u>UA108239 C2</u>	20150410	UA20120105156	20110530
<u>UA110937 C2</u>	20160310	UA20120014880	20110530
<u>US2013270211 AA</u>	20131017	US20110701279	20110530
<u>US2013299444 AA</u>	20131114	US20110701289	20110530
<u>US2015360803 AA</u>	20151217	US20150836170	20150826
<u>US9156719 BB</u>	20151013	US20110701279	20110530
<u>US9440761 BB</u>	20160913	US20110701289	20110530
<u>WO11151047 A2</u>	20111208	WO2011EP02659	20110530
<u>WO11151047 A3</u>	20120126	WO2011EP02659	20110530
<u>WO11151050 A1</u>	20111208	WO2011EP02664	20110530
<u>ZA201208818 A</u>	20140129	ZA20120008818	20110530
<u>ZA201208819 A</u>	20140129	ZA20120008819	20110530

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s):^(std): BRIGNOLO GINO GIOVANNI ; BRIGNOLO GINO GIOVANNI ; CAMPODONICO FEDERICO ; CAMPODONICO FEDERICO ; O I MFG ITALY S P A ; MORETTIN ANBROGIO ; OUEHNS BROKVEHJ GLASS KONTEJNER INK ; OWENS BROCKWAY GLASS CONTAINER INC ; OWENS BROCKWAY GLASS CONTAINER ; PERRONE DALMAZIO ; VILLARET DE CHAUVIGNY BENOIT ; OI EUROP SARL ; MORETTIN ANBROGIO

Assignee(s): O I MANUFACTURING ITALY S P A ; OWENS BROCKWAY GLASS CONTAINER INC PERRYSBURG ; O I MFG ITALY SPA ; OI EUROPE SARL

Inventor(s):^(std): AMBROGIO MORETTIN ; BENOIT VILLARET DE CHAUVIGNY ; BRIGNOLO GINO ; BRIGNOLO GINO GIOVANNI ; BRIGNOLO GINO GIOVANNI ; BRIN OLO DZHINO DZHOVANNI ; CAMPODONICO FEDERICO ; CAMPODONICO FEDERICO ; CHAUVIGNY BENOIT VILLARET DE ; COMPODONICO FEDERICO ; DALMAZIO PERRONE ; FEDERICO CAMPODONICO ; GINO GIOVANNI BRIGNOLO ; KAMPODONIKO FEDERIKO ; MORETTIN AMBRODZHO ; MORETTIN AMBROGIO ; MORETTIN ANBROGIO ; PERRONE DAL MATSIO ; PERRONE DALMAZIO ; VILLARET DE SHOVIN I BENUA ; VILLARET DE CHAUVIGNY BENOIT

Inventor(s): AMBROGIO ; VILLARET DE CHAUVIGNY ; PERRONE ; MORETTIN ; GINO GIOVANNI ; FEDERICO ; DALMAZIO ; CAMPODONICO ; BRIGNOLO ; BENOIT

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; JOHANSSON AND LANGLOIS LTDA; BLUMBACH ZINNGREBE PATENT U RECHTSANWAELE; MERGEL VOLKER; BLUMBACH ZINNGREBE; CARVAJAL Y ISABEL; CABINET BEAU DE LOMENIE; AKTEN OEZGUER

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
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 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

International class
(IPC 8-9): B65D B65D1/02 B65D39/08 B65D39/16 B67B B67B1/06 C03B C03B9/16 C03B9/193 C03B9/32 C03B9/325 (Advanced/Invention);
B65D23/00 (Advanced/Non-invention);
B65D1/00 B65D1/02 B65D39/16 C03B9/00 C03B9/16 (Core/Invention);
B65D B67B C03B (Subclass/Invention)

International class
(IPC 1-7): B65D1/02

CPC: B65D39/16 C03B9/165 C03B9/325 B65D1/0207 B65D39/08 B65D1/0246 C03B9/1932

European class: B65D1/02D1B B65D39/16 C03B9/16B C03B9/325

US class: 1/1 215/44 65/226 65/76

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Cited documents: WO11151050 A1, WO11151047 A2, WO05077774 A1, US868914 A, US767515 A, US6398050 BA, US6216897 BA, US6102225 A, US606200 A, US5947310 A, US52269 A, US516726 A, US509525 A, US509214 A, US482682 A, US480774 A, US4072491 A, US4008063 A, US36781 A, US30106 A, US2609955 A, US2215984 A, US2026304 A, US2011290756 AA, US2010270260 AA, US2010264107 AA, US2007125720 AA, US2006151422 AA, US2003057173 AA, US2001052508 AA, US173089 A, US1695894 A, US1560159 A, US1560158 A, US1502560 A, US1453759 A, US1406722 A, US13402 A, US130208 A, SU1736852, KR200255577 Y1, JPS623028, JP62003028 A2, JP2001322161 A2, GB251501 A, GB132589 A, GB132589 A, FR697986 A, FR331391 A, FR2881421 A1, FR1246454 A, FR1170472 A, EP2576359 A1, EP1549556, EP1501738 A1, EP1254060 A1, EP0667300 A1, EP0225293 A2, EP0027780 A1, DE4236245 A1, DE321345 A, DE183525 A, DE183525 A, CN1496963 A, CH631931, BE488693 A, BE488693 A,

Forward Citations: WO16089444, WO15169416, WO15169415, US9694532, US9440761, US9290401, US9156719, US2015298384, US2015203235, US2014000317, EP3190058, CN106628565, CN106458353, CN104163558,

Abstract:

Source: US2013270211A The present invention relates to a glass container with a cylindrical neck (1) suitable for plugging the container by means of a stopper inserted in said neck, said neck (1) comprises an internal thread (6) allowing for reversible plugging and unplugging of the container by screwing and unscrewing said stopper, wherein the internal thread (6) of the neck consists of at least two independent thread turns (7) allowing unplugging and plugging of the container by screwing and respectively unscrewing the stopper by rotating it over an angle of less than 180 degrees.

0) US2013319253A – BEVERAGE AERATION

4) Family number: 55303146 (US2013319253A)

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Title: BEVERAGE AERATION

Priority: AU20130267901 20130319 AU20170213476 20170809 US20120484643 20120531
NZ20130627302 20130319 NZ20130721846 20130319 EP20130716096 20130319
WO2013US32959 20130319 US20160046657 20160218

Family:	Publication number	Publication date	Application number	Application date
	AR091215 AA	20150121	AR2013P101903	20130530
	AU2013267901 AA	20131205	AU20130267901	20130319
	AU2013267901 BB	20170629	AU20130267901	20130319
	AU2017213476 AA	20170831	AU20170213476	20170809
	CA2861331 AA	20140714	CA20132861331	20130319
	CL2014003186 A1	20150320	CL20140003186	20141124
	CN104066499 A	20140924	CN201380007199	20130319
	CN104066499 B	20170915	CN201380007199	20130319
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	EP2855001 A1	20150408	EP20130716096	20130319
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	EP3241605 A1	20171108	EP20170174492	20130319
	ID201600388 A	20160212	ID2014P0004083	20130319
	MX2014011425 A1	20141125	MX20140011425	20130319
	NZ627302 A	20160826	NZ20130627302	20130319
	NZ721846 A	20170331	NZ20130721846	20130319
	NZ726693 A	20170331	NZ20130726693	20130319
	PE00102015 A1	20150128	PE20140001771	20130319
	PH2014501571 A	20141008	PH20140501571	20140708
	RU2014153108 A	20160720	RU20140153108	20130319
	SG11201407717Y A1	20141230	SG20141107717	20130319
	TH147902 A	20160321	TH20141004796	20130319
	TW201350391 A	20131216	TW20130118614	20130527
	US2013319253 AA	20131205	US20120484643	20120531
	US2016158712 AA	20160609	US20160046657	20160218
	US9283526 BB	20160315	US20120484643	20120531
	US9694328 BB	20170704	US20160046657	20160218
	WO13180825 A1	20131205	WO2013US32959	20130319

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER

Assignee(s):^(std): OWENS BROCKWAY GLASS CONTAINER ; OWENS BROCKWAY GLASS CONTAINER INC ; SMITH ROGER P

Assignee(s): OWENS BROCKWAY GLASS CONTAINER INCONE MICHAEL OWENS WAYPERRYSBURGOH43551US

Inventor(s):^(std): SMITH ROGER P

Inventor(s): SMITH ROGER PUS ; ROGER P SMITH

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON AND LANGLOIS LTDA; JUAN PABLO CADENA SARMIENTO; BLUMBACH ZINNGREBE; SMITH SUSAN L

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

International class A23L2/54 B01F3/00 B01F3/04 B65B1/04 B65D1/02 B65D23/04 B65D39/00 B65D85/72
(IPC 8-9); B65D85/73 (Advanced/Invention);
B01F3/04 (Core/Invention)

CPC: B01F3/04751 B01F2215/0072 B01F3/04794 B65D1/023 B65D39/0005 B65D85/72
B01F3/04737

US class: 1/1 261/108 29/428 426/115 53/473 99/323.1

[Classification Explorer](#)

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US2016176589 AA, US2015203235 AA, US2015096913 AA, US2012298532 AA,
US2012100266 AA, US2012074092 AA, US2012074091 AA, US20120074091,
US2011024461 AA, US2010264107 AA, US2010098816 AA, US2010091605 AA,
US2009324429 AA, EP2855001 A1, EP1716917 A1, DE20119154 U1, CN101421026 A,

Forward Citations: WO16090374, USD799894, USD798711, USD797560, US8783665, US2016221718,
US2014263461, US2014120226, EP3241605, CN104117320,

Abstract:

Source: US2013319253A A beverage package including a bottle including a base, a sidewall extending from the base, a shoulder extending from the sidewall, and a neck extending from the shoulder and including an interior, an interior surface, and a mouth having an end surface. The beverage package also includes an aerator separate from the bottle, extending across the interior of the bottle neck, and disposed entirely within the interior of the neck and spaced axially from the end surface of the bottle neck, and including an inlet end, an outlet end axially spaced from the inlet end, an outer wall in contact with the interior surface of the bottle neck, and a baffle disposed radially inwardly of the outer wall and axially between the inlet and outlet ends.

0) US2001003996A – TRANSFER SET FOR VIALS AND MEDICAL CONTAINERS

5) Family number: 28219762 (US2001003996A)

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Title: TRANSFER SET FOR VIALS AND MEDICAL CONTAINERS

Priority: EP20000121656 20001004 EP20030816475 20030124 JP20000544294 19990225
 US19980082372P 19980420 US19980082382P 19980420 US19980031302 19980226
 JP20080326566 19990225 JP20010531085 20001006 JP20120092217 20001006
 US20010767791 20010123 US19990420998 19991020 US19990420979 19991020
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 WO1999US04077 19990225 US20020060628 20020130 WO2000US27708 20001006
 WO2000US27712 20001006 WO1999US04116 19990225 US20020059497 20020129
 US20030723531 20031126 WO2003US02228 20030124 WO2001US51211 20011113

Family:

Publication number	Publication date	Application number	Application date
AT262883 E	20040415	AT20000968840T	20001006
AT292948 E	20050415	AT20000968839T	20001006
AT348052 E	20070115	AT20000121655T	20001004
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AT396688 E	20080615	AT20000121656T	20001004
AT451087 E	20091215	AT20000100572T	20001004
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AU199933113 A1	19991108	AU19990033113	19990225
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AU200066555 A5	20010510	AU20000066555D	20001016
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AU200232950 A5	20020618	AU20020032950	20011113
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AU760384 B2	20030515	AU19990033113	19990225
AU774241 B2	20040624	AU20000066555	20001016
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<u>DE60127582 T2</u>	20080124	DE20016027582T	20011113
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<u>DE69903266 D1</u>	20021107	DE19996003266	19990225
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<u>DE69922500 D1</u>	20050113	DE19996022500	19990225
<u>DE69922500 T2</u>	20051215	DE19996022500T	19990225
<u>EP1056426 A1</u>	20001206	EP19990908450	19990225
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<u>EP1073398 A1</u>	20010207	EP19990945718	19990225
<u>EP1073398 B1</u>	20041208	EP19990945718	19990225
<u>EP1093784 A2</u>	20010425	EP20000121656	20001004
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<u>EP1093784 B1</u>	20080528	EP20000121656	20001004
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<u>EP1221924 A1</u>	20020717	EP20000968840	20001006
<u>EP1221924 B1</u>	20040331	EP20000968840	20001006
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Probable Assignee: BECTON DICKINSON CO

Assignee(s):^(std): BECTON DICKINSON AND COMPANY ; BECTON DICKINSON CO ; BECTON DICKINSON FRANCE ; JANSEN HUBERT ; THIBAUT JEAN CLAUDE ; THIEBAULT JEAN CLAUDE ; BECTON DICKINSON AND CO ; BECTON DICKINSON and CO

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Inventor(s): VOLKER NIERMANN

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU 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

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A61J1/05 A61J1/06 A61J1/10 A61J1/14 A61J3/00 B65D51/18 (Advanced/Non-invention) ;
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Abstract:

Source: US2001003996A A transfer set assembly for transferring fluids between a first container, such as a conventional medical vial, having a sealed open end and a second container such as a conventional IV infusion bag. The transfer set includes a collar having a proximate tubular end portion for securement to the container, a needle cannula and holder assembly, which is telescopically received in a distal tubular portion of the collar, and a closure including a tubular body portion having an open proximate end which is telescopically received over the needle cannula and holder assembly and the distal tubular portion of the collar, a closed distal end portion and an inner tubular portion which is integral with the closed distal end. The inner tubular portion includes a free end having spiral camming surfaces which mate with spiral camping surfaces on the inside surface of the tubular distal portion of the needle cannula holder. The tubular body portion of the closure includes lateral slots which receive projections on the collar and contiguous camming surface which extends toward the proximate open end of the closure. Rotation of the closure relative to the collar first drives the mating spiral camming surfaces of the closure and holder together, thereby driving the needle cannula and holder assembly axially to pierce the seal of the container. Continued rotation of the closure drives the projections on the collar against the contiguous angled camming surface, driving the closure from the collar and providing access to the needle cannula for transfer of fluids to a second container, such as an IV infusion bag.

0) US2012100266A – CONTROL OF BUBBLE SIZE IN A CARBONATED LIQUID

6) Family number: 50961171 (US2012100266A)

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Title: CONTROL OF BUBBLE SIZE IN A CARBONATED LIQUID

Priority: AU20110318445 20110929 AU20150249132 20151029 CA20152815314 20150107
CA20112815314 20110929 CN201180057850 20110929 AU20170200845 20170208
US20100908622 20101020 WO2011US53819 20110929 US20140148037 20140106
EP20110776272 20110929 US20160080402 20160324

Family:

Publication number	Publication date	Application number	Application date
<u>AU2011318445 AA</u>	20120426	AU20110318445	20110929
<u>AU2011318445 BB</u>	20150806	AU20110318445	20110929
<u>AU2011318445 BI</u>	20151119	AU20110318445	20110929
<u>AU2015249132 AA</u>	20151119	AU20150249132	20151029
<u>AU2015249132 BB</u>	20161124	AU20150249132	20151029
<u>AU2017200845 AA</u>	20170302	AU20170200845	20170208
<u>BR112013009630 A2</u>	20160712	BR20131109630	20110929
<u>CA2815314 AA</u>	20130419	CA20112815314	20110929
<u>CA2815314 C</u>	20150324	CA20112815314	20110929
<u>CA2875879 AA</u>	20120426	CA20112875879	20110929
<u>CN103237742 A</u>	20130807	CN201180057850	20110929
<u>CN103237742 B</u>	20150603	CN201180057850	20110929
<u>CN104943938 A</u>	20150930	CN201510221846	20110929
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<u>DE602011017738 D1</u>	20150820	DE201160017738T	20110929
<u>EP2630060 A1</u>	20130828	EP20110776272	20110929
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<u>EP2937296 A1</u>	20151028	EP20150167380	20110929
<u>ES2545191 T3</u>	20150909	ES20110776272T	20110929
<u>HK1213859 A1</u>	20160715	HK20160101737	20160218
<u>IN03763CN2013 A</u>	20140829	IN2013CN03763	20130513
<u>MX2013004479 A1</u>	20140331	MX20130004479	20110929
<u>MX339081 B</u>	20160510	MX20130004479	20110929
<u>RU2013122851 A</u>	20141127	RU20130122851	20110929
<u>RU2544818 C2</u>	20150320	RU20130122851	20110929
<u>RU2605902 C1</u>	20161227	RU20140152343	20110929
<u>US2012100266 AA</u>	20120426	US20100908622	20101020
<u>US2014117592 AA</u>	20140501	US20140148037	20140106
<u>US2016207695 AA</u>	20160721	US20160080402	20160324
<u>US9327462 BB</u>	20160503	US20140148037	20140106
<u>WO12054203 A1</u>	20120426	WO2011US53819	20110929

Probable Assignee: PEPSICO INC

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Inventor(s): PANDE MANISH MAROTRAOPL ; PETER S GIVEN ; PRASAD V JOSHI ; WEI LIU ;
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WEIUS ; LEFEBVRE DENISE H PURCHASE ; LEFEBVRE DENISE HUS ; JOSHI
PRASAD VUS ; LEE M NICHOLSON ; JOSHI PRASAD V PURCHASE ; JANKOWIAK
MARCINPL ; JOHN MARK LUCAS ; GIVEN PETER S PURCHASE ; GIVEN PETER SUS
; DENISE H LEFEBVRE

Agent(s): SPRUSON AND FERGUSON; MACRAE AND CO; ARNOLD AND SIEDSMA; DUXBURY
STEPHEN; CARPINTERO MARIO; STERNE KESSLER GOLDSTEIN AND FOX PLLC;
ROKOS REBECCA P

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
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International class B29C49/02 B29C49/12 B29C49/60 B29D22/00 B65D1/02 B65D17/00 B65D17/28
(IPC 8-9): B65D25/02 B65D25/38 B65D85/72 B65D85/73 (Advanced/Invention);
B29C49/08 B29C49/12 B29K67/00 (Advanced/Non-invention);
B65D (Subclass/Invention)

CPC: B29C49/08 B29C49/12 B29C2049/1228 B29K2067/003 B65D17/165 B65D25/02
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European class: B65D17/16B2 B65D25/02 B65D25/38 B65D85/73 L65D517/00Y6A

US class: 1/1 264/531 264/532 264/532S 426/115 426/115P 426/131 426/131S

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Forward Citations: WO14027028, US9694328, US9604775, US2016158712, US2015217933,
US2010104715,

Abstract:

Source: US2012100266A Cans, bottles and/or other containers used to hold a carbonated beverage can include internal features to promote and/or control bubble formation.

0) US2006226110A – DRINK BOTTLES WITH BITE–ACTUATED MOUTHPIECES

7) Family number: 33473631 (US2006226110A)

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Title: DRINK BOTTLES WITH BITE–ACTUATED MOUTHPIECES

Priority: AU20060235383 20060410 AU20110201183 20110316 AU20120202351 20120420
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US20160287915 20161007 EP20060749713 20060410 GB20070022018 20060410
WO2006US13410 20060410

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<u>WO06110707 A3</u>	20090416	WO2006US13410	20060410	
<u>WO06110707 C1</u>	20070726	WO2006US13410	20060410	

Probable Assignee: CAMELBAK PRODUCTS LLC

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Assignee(s): COMPASS GROUP DIVERSIFIED HOLDINGS LLC ; CAMELBAK INT LLC ; JEREMY GALTEN ; ROBERT CHOI ; BANK OF AMERICA NA ; BARLEY A FORSMAN ; BNP PARIBAS

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Inventor(s): FORSMAN BARLEY ; A FORSMAN BARLEY A ; BARLEY A FORSMAN ; CAMEL BAK PRODUCTS LLC

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; HARRISON GODDARD FOOTE; CAMENISCH ANDREW RICHARD; SAEZ ANA; KOLISCH HARTWELL PC; DASCENZO INTELLECTUAL PROPERTY LAW PC; DASCENZO INTELLECTUAL PROPERTY LAW

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

International class
(IPC 8-9): B67D1/08 A45F3/16 A45F3/20 A47G19/22 A61J9/00 B65D1/02 B65D1/24 B65D25/28 B65D25/40 B65D25/44 B65D25/46 B65D39/00 B65D41/04 B65D47/06 B65D47/20 B65D51/00 B65D51/16 B65D51/18 B65D83/00 (Advanced/Invention); A47G19/22 B65D25/28 B65D25/38 B65D39/00 B65D41/04 B65D47/06 B65D51/00 B65D51/16 B65D83/00 (Core/Invention); A47G B65D (Subclass/Invention)

CPC: B65D47/065 A47G19/22 B65D39/00 B65D51/00 B65D51/16 B65D83/00 B65D25/40 B65D25/44 B65D25/46 B65D47/06 B65D47/061 A47G19/2272 A47G19/2266 A45F3/20 B65D47/066 B65D47/2031

European class: A47G19/22 A47G19/22B12 B65D25/40 B65D25/44 B65D25/46 B65D39/00 B65D47/06 B65D47/06A B65D47/06B B65D47/20E2 B65D51/00 B65D51/16 B65D83/00

US class: 1/1 215/11.4 215/228 215/229 215/381 215/387 215/388 220/203.04 220/203.040 220/212 220/212.5 220/212.500 220/254.3 220/367.1 220/367.100 220/705 220/707 220/709 220/714 222/465.1 222/490 222/505

[Classification Explorer](#)

Cited documents: WO9846106 A1, WO9705055, WO03031315, WO0049922 A1, WO0003946 A1, USD489978 S1, US8701928 BB, US7073688 BB, US7059490 BB, US7048137 BB, US7032764 BB, US7014077 BB, US6994225 BB, US6915961 BB, US6908015 BB, US6854888 BA, US6783115 BA, US6764064 BB, US6745915 BB, US6742681 BA, US6719273 BA, US6708950 BB, US6698716 BB, US6675998 BB, US66685603, US6631823 BB, US6609624 BB, US6607092 BB, US6557721 BB, US6523711 BA, US6521711 BA, US6513686 BA, US6497348 BB, US6422415 BA, US6390341 BA, US6364168 BA, US6283344 BA, US6279773 BA, US6279772 BA, US6276560 BA, US6264166 BA, US6212959 BA, US6199729 BA, US6196413 BA, US61787903, US6116458 A, US6070767 A, US6059154 A, US6050445 A, US6050433 A, US6032831 A, US6021801 A, US5911406 A, US5897013 A, US5884793 A, US5873478 A, US5806726 A, US5791510 A, US5755368 A, US5730336 A, US5699933 A, US5670787 A, US5601207 A, US5582315 A, US5553726 A, US5520304 A, US5518142 A, US5465866 A, US5433535 A, US5433353 A, US5392968 A, US5332131 A, US5307950 A, US5301858 A, US5273172 A, US5242079 A, US5203468 A, US5101991 A, US5085349 A, US5085336 A, US5065909 A, US5060833 A, US4925042 A, US4860934 A, US4852762 A, US4836404 A, US4607755 A, US4485963 A, US4212408 A, US4090650 A, US3972443 A, US3792443 A, US3739938 A, US3392887 A, US3294293

A, US3181743 A, US3179301 A, US2844267 A, US2005218242 AA, US2005205587 AA, US2005184075, US2005133519 AA, US2005133505 AA, US2005128242 AA, US2005115966 AA, US2005072804 AA, US2005072788 AA, US2005056652 AA, US2005056610 AA, US2005045647 AA, US2005029313 AA, US2005029271 AA, US2004222230 AA, US2004217187 AA, US2004217139 AA, US2004210253, US2004164043 AA, US2004159820 AA, US2004089301 AA, US2004079775 AA, US2004069783 AA, US2004000551 AA, US2003222238 AA, US2003218015 AA, US2003173536 AA, US2003168462 AA, US2003116573 AA, US2003102318 AA, US2003085232 AA, US2002185495 AA, US2002166990 AA, US2002148806 AA, US2002092877 AA, US2002092858 AA, US2002033399 AA, US1788795 A, JP2002326655 A2, GB2279130 A1, EP1095599 A2, EP0266067 A1, CN85106703 A, CN1394186 A, CN1198083 A,

Forward Citations: WO17091582, WO15168701, WO15095307, WO15051231, WO14100168, WO10085367, USRE45055, USD801818, USD801174, USD800501, USD799320, USD797497, USD796903, USD795009, USD793154, USD786018, USD768491, USD767402, USD767337, USD760543, USD757496, USD756702, USD750428, USD749960, USD749956, USD748943, USD748478, USD748429, USD740605, USD736562, USD733497, USD732892, USD732392, USD732339, USD729569, USD727097, USD725966, USD725436, USD724384, USD721965, USD720184, USD719827, USD719780, USD719445, USD719444, USD716657, USD714147, USD707124, USD704986, USD701727, USD700807, USD700015, USD700014, USD700012, USD698657, USD697798, USD696551, USD696118, USD696079, USD691420, USD688093, USD686448, USD685606, USD683581, USD682034, USD669732, USD656403, USD653081, USD652256, USD649879, USD638299, USD636634, USD632522, USD627602, USD626838, USD626837, USD623896, USD623058, USD622149, USD611811, US9790007, US9782028, US9770125, US9724629, US9708107, US9643758, US9643141, US9624089, US9609969, US9573738, US9549605, US9534695, US9492024, US9470335, US9456710, US9439524, US9380898, US9375107, US9364110, US9314120, US9212067, US9162802, US9120598, US9113698, US9079205, US8978923, US8975596, US8939305, US8905252, US8851324, US8844746, US8833586, US8827099, US8820556, US8746496, US8727244, US8695830, US8672174, US8668106, US8662359, US8622236, US8602238, US8573431, US8505783, US8469226, US8464895, US8403173, US8360258, US8302804, US8225541, US8191727, US8011529, US7931166, US7913869, US7851775, US7819280, US2017144809, US2016150898, US2015173539, US2014353275, US2014061255, US2014061248, US2014048511, US2013140309, US2013112647, US2013081970, US2012228315, US2012187075, US2012181272, US2012125335, US2012024854, US2011284538, US2011198361, US2011174993, US2011167694, US2011089194, US2011062170, US2010228187, US2010181329, US2010133285, US2010127005, US2009314789, US2009301990, US2009065517, US2009065464, US2009039094, US2009026218, US2008053997, US2007090296, TWI468326, EP3045402, DE102007023235, CN106510361, CN105813507,

Abstract:

Source: US2006226110A Drink bottles, or containers, with bite-actuated mouthpieces. In some embodiments, the mouthpieces are self-sealing mouthpieces that are biased to return from a dispensing configuration to a closed configuration. The bottles may be rigid or collapsible and may include a removable cap assembly. In some embodiments, the bottles include a manual on/off valve adapted to prevent drink fluid from being dispensed regardless of the mouthpiece's configuration. In some embodiments, the bottles include a straw extending into the bottle and/or a drink tube extending from external of the bottle and/or an air return system. In some embodiments, the bottles include a dispensing spout that is pivotally coupled to the cap of the drink bottle. In some embodiments, the dispensing spout includes a mount for the mouthpiece and/or cooperates with the cap to provide a manual on/off valve to selectively restrict flow of drink fluid from the bottle regardless of the mouthpiece's configuration.

8) Family number: 8661952 (US5931357A)

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Title: Closure arrangements for containers**Priority:** GB19940023585 19941122 WO1995GB02718 19951122

Family:	Publication number	Publication date	Application number	Application date
	AU199538775 A1	19960617	AU19950038775	19951122
	AU697383 B2	19981001	AU19950038775	19951122
	CA2205865 AA	19970522	CA19952205865	19951122
	DE69515061 D1	20000316	DE19956015061	19951122
	DE69515061 T2	20000706	DE19956015061T	19951122
	EP0793604 A1	19970910	EP19950937958	19951122
	EP0793604 B1	20000209	EP19950937958	19951122
	ES2144643 T3	20000616	ES19950937958T	19951122
	GB2295385 A1	19960529	GB19940023585	19941122
	GB2295385 B2	19990519	GB19940023585	19941122
	GB9423585 A0	19950111	GB19940023585	19941122
	US5931357 A	19990803	US19970849208	19970807
	WO9615953 A1	19960530	WO1995GB02718	19951122
	ZA9509912 A	19960610	ZA19950009912	19951122

Probable Assignee: WASS ANTHONY C L**Assignee(s):^(std):** ANTHONY CHARLES LAMMOND WASS ; LAMMOND ANTHONY CHARLES WASS ; WASS ANTHONY C L ; WASS ANTHONY CHARLES LAMMOND**Inventor(s):^(std):** WASS ANTHONY CHARLES LAMMOND**Inventor(s):** ANTHONY CHARLES LAMMOND WASS**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BERESKIN AND PARR**Designated states:** AL 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 MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN**International class**
(IPC 8-9): [B65D47/20](#) [B65D47/26](#) (Advanced/Invention);
[B65D47/04](#) (Core/Invention)**International class**
(IPC 1-7): [B65D](#) [B65D1/02](#) [B65D47/20](#) [B65D47/26](#) [B65D47/32](#)**CPC:** [B65D47/2006](#) [B65D47/261](#)**European class:** [B65D47/20C](#) [B65D47/26D](#)**US class:** [222/554](#) [222/556](#) [222/560](#)[Classification Explorer](#)**Cited documents:** US5332131 A, US5156302 A, US4645086 A, US3410461 A, US2209062 A, US2209050 A, US2185248 A, US2152270 A, US2127465 A, US1960393 A, US1430313 A, GB295676 A, GB2258391 A1, FR910907 A, EP0648683 A1, EP0589114 A2, EP0176108 A2, DE9412589 U, DE9412589 U, CH347764 A, CH347764,**Forward Citations:** WO11077378, US8881921, US6758376, US6427881, US2010213211, RU2527123, GB2389575, FR2954754, FR2803273, CN102695656,**Abstract:**

Source: US5931357A PCT No. PCT/GB95/02718 Sec. 371 Date Aug. 7, 1996 Sec. 102(e) Date Aug. 7, 1996 PCT Filed Nov. 22, 1995 PCT Pub. No. WO96/15953 PCT Pub. Date May 30, 1996A closure arrangement for a bottle has a tiltable closure cap (14) mounted on a special neck formation having a spherical surface zone (18, 20) on the inner and/or outer surfaces. The closure cap (14) has an upper portion (36), e.g. in the form of a cap,

joined to a downward extension e.g. in the form of a sealing annulus (22) which is trapped below the restricted opening formed by the neck's overhanging convergent zone (18). The annulus (22) seals in the convergent zone. The closure is opened by tilting the cap (36), e.g. with one finger, thus tilting one side of the sealing annulus (22) up and out of sealing engagement to open up a flow passage. An exterior guide part (40) of the cap (36) slides down the outer spherical surface (20) of the neck to control the tilt movement. In an alternative embodiment the sealing periphery is at the upper, cap portion of the closure which may also have a discharge spout.

9) Family number: 52204929 (US2014305818A)

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Title: APPARATUS FOR RECEIVING HETEROGENEOUS MATERIALS

Priority: AU20130257495 20131115 AU20160204528 20160630 KR20110035917 20110418
 KR20110095500 20110921 KR20110095496 20110921 KR20110095498 20110921
 KR20110119032 20111115 KR20110121895 20111121 KR20110122568 20111122
 KR20110124710 20111127 KR20110129329 20111205 KR20110130630 20111208
 KR20110131379 20111208 KR20120007459 20120126 KR20120014054 20120213
 KR20120014055 20120213 KR20120017712 20120221 KR20120022733 20120306
 KR20120024767 20120311 KR20120036393 20120407 KR20120038183 20120412
 KR20120013496 20120209 KR20120014003 20120210 WO2012KR02969 20120418
 KR20120022733 20130306 WO2013KR01067 20130212 US20140355960 20140502
 US20150963853 20151209

Family:

Publication number	Publication date	Application number	Application date
AU2013257495 AA	20140130	AU20130257495	20131115
AU2016204528 AA	20160714	AU20160204528	20160630
CA2838483 AA	20131205	CA20122838483	20120418
CN103619722 A	20140305	CN201280030066	20120418
CN103619722 B	20170208	CN201280030066	20120418
EP2700589 A2	20140226	EP20120774757	20120418
EP2700589 A4	20141001	EP20120774757	20120418
IN09876DN2013 A	20160603	IN2013DN09876	20131118
KR20120118389 A	20121026	KR20110035917	20110418
KR20130031753 A	20130329	KR20110095496	20110921
KR20130031754 A	20130329	KR20110095498	20110921
KR20130031756 A	20130329	KR20110095500	20110921
KR20130053611 A	20130524	KR20110119032	20111115
KR20130056126 A	20130529	KR20110121895	20111121
KR20130056794 A	20130530	KR20110122568	20111122
KR20130058785 A	20130605	KR20110124710	20111127
KR20130086660 A	20130805	KR20120007459	20120126
KR20130092331 A	20130820	KR20120014003	20120210
KR20130092661 A	20130821	KR20120014055	20120213
KR20130096130 A	20130829	KR20120017712	20120221
KR20130101749 A	20130916	KR20120022733	20120306
KR20130103647 A	20130924	KR20120024767	20120311
KR20130113842 A	20131016	KR20120036393	20120407
KR20130115666 A	20131022	KR20120038183	20120412
US2014305818 AA	20141016	US20120355960	20120418
US2015203261 AA	20150723	US20130422140	20130212
US2016090222 AA	20160331	US20150963853	20151209
US9650190 BB	20170516	US20130422140	20130212
WO12144802 A2	20121026	WO2012KR02969	20120418
WO12144802 A3	20130321	WO2012KR02969	20120418
WO13119088 A2	20130815	WO2013KR01067	20130212
WO13119088 A3	20131010	WO2013KR01067	20130212

Probable Assignee: LEE SUN HEE**Assignee(s):^(std):** LEE JEONG MIN ; LEE JUNG MIN ; LEE SEONG JAE ; LEE SU JAE ; LEE TAE KEUN ; LEE SUN HEE ; LEE SUNG JAE ; KIM DO YI**Assignee(s):** KIM WOONG KI ; SU JAE LEE

Inventor(s):^(std): LEE SEONG JAE ; LEE SU JAE ; LEE JEONG MIN

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; DEETH WILLIAMS WALL LLP; PFENNING MEINIG AND PARTNER GBR; FAY KAPLUN AND MARCIN LLP

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

International class
(IPC 8-9): A61J1/05 B29C45/14 B29C45/16 B29C49/00 B65D1/02 B65D25/08 B65D25/40 B65D41/04 B65D41/14 B65D41/32 B65D47/06 B65D51/18 B65D51/20 B65D51/22 B65D51/24 B65D51/28 B65D53/02 B65D75/38 B65D81/32 B65D85/00 (Advanced/Invention)

CPC: B29C45/1676 B65D51/2821 B65D1/0238 B65D1/0246 B65D53/02 B65D81/3283 B65D2501/0054 B65D51/2842 B65D51/2864 B65D51/2835 B65D51/285 B65D51/28 B65D25/40 B65D47/06 B65D81/32 B65D25/08 B65D51/20 B65D51/24 B65D41/14 B65D51/22 A61J1/05 B65D41/04 B29C45/14 B29C45/16 B65D75/38 B65D85/00 B65D51/18 B65D41/32 B65D51/2814 B65D51/245 B29C45/0081 B29C66/72321 B29C66/72343 B29K2083/00 B29L2031/565 B29L2031/712 B65D41/3423 B65D55/06 B65D81/3222 B65D85/72 B65D41/62 B65D81/3211 B65D51/002 B65D51/221 B65D53/04

US class: 206/219 206/221 206/222
[Classification Explorer](#)

Cited documents: WO10126341 A2, WO06046725 A1, WO02098756 A2, US6148996 A, US3347410 A, US2012325697 AA, US2010059394 AA, US2010012613 AA, US2009236244 AA, US2009127274 AA, US2008202949 AA, US2008093326 AA, US2003132244 AA, KR20100122825 A, KR20100119462 A, KR20100104422 A, KR20100042570 A, KR20100011941 U, KR20090082059 A, KR20050071383 A, KR20040039227 A, JP3119434 U, JP2006519148 T2, JP2006290462 A2, CN1902103 A, CN1874954 A, CN101374734 A, CN101061044 A,

Forward Citations: WO17114583, WO17039424, WO17039423, WO16163815, WO16068612, US9708109, US2017129665, KR20160073457, KR101723959, KR101635810, EP3228559, EP3169599, CN105861278, CN105173418, CN104555057, CN103600906,

Abstract:

Source: US2014305818A An apparatus containing heterogeneous materials which is coupled to a mouth part of a container containing contents such as liquid or the like, comprises a main body to be coupled and fixed to the mouth part of the container; and an accommodating part having a storage space formed inside of the main body, wherein an upper foldable connecting part of the inner storage space of the accommodating part and an opening formed below the foldable connecting part break an accommodating part sealing part which seals the lower end of the accommodating part, thereby allowing the contents of the storage space of the accommodating part to drop down into the container to be mixed. An opening is formed at the bottom of the upper portion of the foldable connecting part and the foldable connecting part is formed between the opening and the main body, wherein a soft foldable part is formed at the top or bottom of the foldable connecting part.

10) Family number: 1518628 (US3941539A)

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Title: Injection blow molding apparatus and method**Priority:** AU19750087200 19751202 CA19730187369 19731204 US19750616007 19750923
US19720312257 19721205

Family:	Publication number	Publication date	Application number	Application date
	<u>AU197363207 A1</u>	19750605	AU19730063207	19731204
	<u>AU197587200 A1</u>	19760219	AU19750087200	19751202
	<u>AU482589 B2</u>	19760219	AU19750087200	19751202
	<u>CA1021510 A1</u>	19771129	CA19730187369	19731204
	<u>CA1054762 A1</u>	19790522	CA19770289266	19771021
	<u>CA1054762 A2</u>	19790522	CA19770289266	19771021
	<u>CH578416 A</u>	19760813	CH19730016967	19731203
	<u>CH595206 A</u>	19780215	CH19760006785	19731203
	<u>DE2360010 A1</u>	19740606	DE19732360010	19731201
	<u>DE2365986 A1</u>	19770317	DE19732365986	19731201
	<u>FR2208777 A1</u>	19740628	FR19730043131	19731204
	<u>GB1459223 A</u>	19761222	GB19730056247	19731204
	<u>GB1459224 A</u>	19761222	GB19760025036	19731204
	<u>GB1459225 A</u>	19761222	GB19760025037	19731204
	<u>GB1459226 A</u>	19761222	GB19760025038	19731204
	<u>JP49098871 A2</u>	19740918	JP19730134968	19731204
	<u>JP54015065 B4</u>	19790612	JP19730134968	19731204
	<u>US3941539 A</u>	19760302	US19720312257	19721205
	<u>US4039644 A</u>	19770802	US19750616007	19750923
	<u>US4077759 A</u>	19780307	US19760653844	19760130
	<u>US4128374 A</u>	19781205	US19750616006	19750923

Probable Assignee: CONTINENTAL GROUP**Assignee(s):^(std):** CONTINENTAL CAN CO ; CONTINENTAL GROUP**Assignee(s):** HARRY IEUAN L ; HARRY LEUAN L ; SAUMSIEGLE ROBERT W ; THE CONTINENTAL GROUP INC ; CONTINENTAL CAN CO INC ; CONTINENTAL CAN CO INC NEW YORK N Y V ST A ; CONTINENTAL CAN COMPANY INC ; CONTINENTAL CAN CY INC US**Inventor(s):^(std):** HARRY IEUAN L ; HARRY IEUAN LANCE ; HARRY JEUAN LANCE ; LARRY IEUAN L ; HARRY LEUAN L ; SAUMSIEGLE ROBERT WALTER ; SAUMSIEGLE ROBERT W ; SAUMSIEGLE ROBERT WALTER**Inventor(s):** SAUMSIEGLE ROBERT WALTER WELLESLEY ; SAUMSIEGLE ROBERT WALTER WELLESLEY ; IEUAN L LARRY ; IEUAN LANCE HARRY ; ROBERT W SAUMSIEGLE ; ROBERT W SAUMSIEGLE AND IEUAN L HARRY ; ROBERT W SAUMSIEGLE LEILANI HARRY ; ROBERT WALTER SAUMSIEGLE ; HARRY JEUAN LANCE BILLERICA ; HARRY IEUAN LANCE PINEHURST**International class**
(IPC 8-9): B29B11/08 B29C49/00 B29C49/06 B29C49/32 B29C49/36 B29C49/42 B29C49/48 B29C49/70 B29C65/00 (Advanced/Invention);
B29C49/00 B29C49/42 B29C49/48 B29C65/00 (Advanced/Non-invention);
B29B11/00 B29C49/00 B29C49/06 B29C49/28 B29C49/42 B29C49/48 B29C65/00 (Core/Invention)**International class**
(IPC 1-7): B29C1/06 B29C1/16 B29C17/07 B29C5/06 B29D23/00 B29D23/02 B29D23/03 B29F1/00 B29F1/022 B65D1/00**CPC:** B29C49/06 B29C49/062 B29C49/063**European class:** B29C49/06 B29C49/06B2 B29C49/06B2B L29C49/06

US class: 264/335 264/533 264/538 264/97 425/242B 425/403 425/441 425/450.1 425/451 425/525 425/526 425/533 425/534 425/541 425/556 425/572 425/576 425/587

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Cited documents: US3886247 A, US3816580 A, US3776991 A, US3733162 A, US3685943 A, US3669599 A, US3624672 A, US3616491 A, US3609803 A, US3599280 A, US3484897 A, US3408691 A, US3364520 A, US3339231 A, US3264684 A, US3183552 A, US3019480 A, US2914799 A, US2901769 A, US2715751 A, US2331687 A, US2290129 A, JP48079869 A2, JP47024699 U1, JP47008382 A2, JP46015036 A2, JP44007159 B4, GB1370632 A, FR2054560 A7, DE2100868 A1, DE2029197 A1,

Forward Citations: WO16054675, WO15036877, WO12135678, WO08111879, US9352492, US9132581, US8877117, US8562334, US8523556, US8512625, US8512028, US7951320, US7540740, US7455518, US7214341, US6739857, US6503075, US6290486, US6171094, US5830404, US5776518, US5589204, US5536161, US5324192, US5090889, US5067891, US5061173, US5053101, US5051227, US4950152, US4818213, US4784593, US4784592, US4615667, US4571171, US4529372, US4524943, US4502659, US4439133, US4427359, US4206168, US4140468, US4133627, US4063862, US2008268083, US2007154590, US2006083810, US2005167889, US2003082270, JP61092385, JP61058159, JP61015111, JP57024233, JP57001737, GB2287539, FR2488547, EP0028297,

Abstract:

Source: US3941539A Injection blow molding equipment for the production of hollow articles wherein cores are axially inserted in blow molds and blank molds is disclosed. Compact core assemblies and fluid supply systems integral with the platens allow the mold parts to be mounted on the surfaces of opposed, relatively movable platens. Partible neck rings associated with each core open divergently outwardly as the blow mold and core separate, to shorten machine cycle time. A manifold, supplied with cooling fluid from the periphery of a core mounting plate, distributes heat transfer fluid to the core assemblies for cooling the neck rings. In one embodiment, mating blow mold sections are mounted on contra-oscillatable mounting members and are opened and closed by arcuate movement of the mounting members.

11) Family number: 18259797 (US4429799A)

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Title: Bottle with a one-piece corking means

Priority: CA19820393806 19820108 US19810223894 19810109 US19820384758 19820603
 US19820368990 19820416 US19820369191 19820416 US19840576611 19840203

Family:

Publication number	Publication date	Application number	Application date
<u>CA1170214 A1</u>	19840703	CA19820393806	19820108
<u>DE3260407 D1</u>	19840830	DE19823260407	19820108
<u>EP0056320 A1</u>	19820721	EP19820300107	19820108
<u>EP0056320 B1</u>	19840725	EP19820300107	19820108
<u>EP0152171 A2</u>	19850821	EP19850300165	19850110
<u>EP0152171 A3</u>	19860820	EP19850300165	19850110
<u>ES266863 U</u>	19831016	ES19820266863U	19820810
<u>ES266863 Y</u>	19840401	ES19820266863U	19820810
<u>ES270947 U</u>	19830816	ES19820270947U	19820108
<u>ES270947 Y</u>	19840301	ES19820270947U	19820108
<u>ES292842 U</u>	19870316	ES19850292842U	19850201
<u>ES292842 Y</u>	19871016	ES19850292842U	19850201
<u>ES292842 Y1</u>	19871116	ES19850292842U	19850201
<u>ES514871 A0</u>	19830816	ES19820514871	19820810
<u>ES514872 A0</u>	19830816	ES19820514872	19820810
<u>ES8308284 A1</u>	19831116	ES19820514871	19820810
<u>ES8308285 A1</u>	19831116	ES19820514872	19820810
<u>PT74258 A</u>	19820201	PT19820074258	19820108
<u>PT74258 B</u>	19830823	PT19820074258	19820108
<u>PT79915 A</u>	19850301	PT19850079915	19850201
<u>PT79915 B</u>	19860911	PT19850079915	19850201
<u>US4429799 A</u>	19840207	US19820384758	19820603
<u>US4435942 A</u>	19840313	US19820368990	19820416
<u>US4437291 A</u>	19840320	US19820369191	19820416
<u>US4513870 A</u>	19850430	US19840576611	19840203

Probable Assignee: MONARCH WINE CO INC**Assignee(s):^(std):** MONARCH WINE CO ; MONARCH WINE CO INC**Assignee(s):** MONARCH WINE CO INC 4500 SECOND AVE BROOKLYN NY 11 ; ZALTSMAN EFIM ; MARCH HOLDINGS LP**Inventor(s):^(std):** ZALTSMAN EFIM**Agent(s):** SWABEY OGILVY RENAULT**Designated states:** DE FR GB IT

International class B65D39/00 B65D39/04 B65D55/16 B65D59/00 (Advanced/Invention);
^{(IPC 8-9):} B65D39/00 B65D55/00 (Core/Invention)

International class B65B7/28 B65D1/02 B65D39/00 B65D39/04 B65D45/02 B65D55/16 B67B1/04 B67B1/4
^{(IPC 1-7):} B67B3/22 B67B5/06 B67B5/06 B67B5/6 B67B7/20

CPC: B65D39/00 B65D39/0017 B65D55/16 B65D59/00**European class:** B65D39/00 B65D39/00F2 B65D55/16 B65D59/00**US class:** 215/253 215/306 215/31 215/46 53/319 53/328 53/359 53/485 53/489[Classification Explorer](#)

Cited documents: US773345, US4474302 A, US4054221 A, US3994409 A, US3990598, US3986627, US3851783, US3691725, US3645062, US3473685, US3416688, US3407956, US3282026, US3269575 A, US3235117, US3199707, US3145872 A, US2961119, US2814405, US2814404, US1265263, FR2329536 A1, EP0056320 A1, DE2200857 A1, DE1200857 B, CH295001 A,

Forward Citations: WO9210409, WO8603727, US9327087, US9096334, US8789347, US8584875, US8439212, US7318656, US5816428, US5685444, US5031589, US4756442, US4583652, US4573602, US4564114, US4546893, US2015375901, US2014215975, US2013213394, US2011100990, US2008197135, US2005199631, GB2426507, GB2426507, GB2231864, GB2231864, EP1953093, EP0443504, EP0152171,

Abstract:

Source: US4429799A A closure arrangement for stoppering bottles with pressurized, carbonated, water-based liquid contents which comprises in combination; a bottle having a body portion, an elongated neck portion with two annular flanges thereon, and a mouth portion; and a one-piece elastomeric plastic molded corking means having an elongated cylindrical stopper insertable into the mouth of the bottle, a head connected to the stopper, an annular, circumferential ring positioned below the head, concentric with the stopper and capable of being received between the two annular flanges, a flexible, elongated folded tether connecting the ring to the head, and a plurality of short frangible bridges connecting the ring to the head, said bridges breaking when the ring is forced between the two flanges. The elongated tether provides a means for preventing injury when the cork is removed from the bottle.

0) US4269722A – BOTTLED PARTICULATE DETERGENT

12) Family number: 31311807 (US4269722A)

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Title: Bottled particulate detergent

Priority: AU19820082698 19820416 AU19850042063 19850507 CA19770287404 19770923
US19820338546 19820111 US19840571118 19840116 US19780964037 19781221
US19800171325 19800723 US19760727838 19760929

Family:

Publication number	Publication date	Application number	Application date
AT690777 A	19840415	AT19770006907	19770928
AU197728632 A1	19790315	AU19770028632	19770908
AU198542063 A1	19850905	AU19850042063	19850507
AU199066719 A1	19910131	AU19900066719	19901116
AU600430 B2	19900816	AU19850042063	19850507
BE859192 A	19780116	BE19770181301	19770929
BE859192 A1	19780116	BE19770181301	19770929
BR7706399 A	19780801	BR19770006399	19770926
CA1119112 A1	19820302	CA19770287404	19770923
CH631482 A	19820813	CH19770011804	19770927
DE2742683 A1	19780330	DE19772742683	19770922
DE2742683 C2	19910829	DE19772742683	19770922
DE2742683 C3	19910829	DE19772742683	19770922
DK152293 B	19880215	DK19770004308	19770929
DK152293 C	19880725	DK19770004308	19770929
DK430877 A	19780330	DK19770004308	19770929
ES462701 A1	19780701	ES19770462701	19770928
FR2366357 A1	19780428	FR19770029009	19770927
FR2366357 B1	19820723	FR19770029009	19770927
GB1584410 A	19810211	GB19770039751	19770923
GR69922 B	19820721	GR19770054318	19770908
GR69922 B	19820721	GR19770154318	19770908
HK44383 A	19831028	HK19830000443	19831020
IE46048 B	19830209	IE19770001985	19770928
IE46048 L	19780329	IE19770001985	19770928
IT1089897 A	19850618	IT19770051141	19770926
JP1488693 C3	19890323	JP19770117275	19770929
JP53043710 A2	19780420	JP19770117275	19770929
JP61038240 B4	19860828	JP19770117275	19770929
MX148555 A	19830506	MX19770170658	19770922
MY8300113 A	19831231	MY19830000113	19831230
MY8500487 A	19851231	MY19850000487	19851230
NL176924 C	19850701	NL19770010667	19770929
NL7710667 A	19780331	NL19770010667	19770929
PH16226 A	19830809	PH19770020266	19770923
PT67072 A	19771001	PT19770067072	19770923
PT67072 B	19810901	PT19770067072	19770923
SE7710011 A	19780330	SE19770010011D	19770907
SE7710011 L	19780330	SE19770010011	19770907
SG8490297 A	19850215	SG19840090297	19840410
US4269722 A	19810526	US19780964037	19781221

<u>US4351740 A</u>	19820928	US19800171325	19800723
<u>US4444673 A</u>	19840424	US19820338546	19820111
<u>US4549977 A</u>	19851029	US19840571118	19840116
<u>ZA7705371 A</u>	19790425	ZA19770005371	19770906

Probable Assignee: COLGATE PALMOLIVE CO

Assignee(s):^(std): COLGATE PALMOLIVE CO ; COLGATE PALMOLIVE CO TE NEW YORK ; COLGATE PALMOLIVE CY

Assignee(s): COLGATE PALMOLIVE COMPANY TE NEW YORK ; COLGATE PALMOLIVE COMPANY ; JOSHI DAVID ; KLINGAMAN RICHARD J ; COLGATE PALMOLIVE CO 300 PARK AVE NEW YORK NY 1002 ; COLGATE PALMOLIVE CO A CORP OF DEL ; COLGATE PALMOLIVE CO NEW YORK N Y US ; COLGATE PALMOLIVE CO SOC DELLO STATO DEL DELAWARE

Inventor(s):^(std): RICHIYAADO JIEEMUSU KURINGAMAN ; KLINGMAN R J ; KLINGAMAN RICHARD JAMES ; KLINGAMAN RICHARD J ; KLINGAMAN RICHARD ; KLINGAMAN R J ; KLINGAMAN R ; JOSHI DAVID ; JOSHI D ; DEEBITSUDO JIYOSHI ; RICHARD JAMES KLINGAMAN ; RICHAADO JEEMUSU KURINGAMAN ; R J KLINGAMAN ; KLINGAMAN RICHARD JAMES DARIEN CONN ; JOSHI DAVID PISCATAWAY NJ ; DEEBITSUDO JOSHI ; DAVID JOSHI ; D JOSHI

Inventor(s): JOSHI DAVID PISCATAWAY N J US ; JOSHI DAVID PISCATAWAY N J ; JAMES KLINGAMAN RICHARD ; KLINGAMAN RICHARD JAMES DARIEN CONN US

Agent(s): FB RICE PTY LTD; FB RICE; SMART AND BIGGAR

International class
(IPC 8-9): B65B1/06 B65D1/00 B65D23/00 B65D23/10 B65D85/00 C11D17/00 C11D17/04 C11D17/06 (Advanced/Invention);
C11D17/00 (Advanced/Non-invention);
B65B1/06 B65D23/10 B65D85/00 C11D17/00 C11D17/04 C11D17/06 (Core/Invention)

International class
(IPC 1-7): B65B1/00 B65B1/04 B65B1/06 B65B1/30 B65B39/12 B65D1/00 B65D1/02 B65D23/00 B65D23/10 B65D83/06 B65D85/00 B65D85/70 C11D1/00 C11D1/02 C11D1/66 C11D1/72 C11D1/83 C11D11/02 C11D17/00 C11D17/04 C11D17/06 C11D3/04 C11D3/06 C11D3/075 C11D3/08 C11D3/10 C11D3/60

CPC: B65D23/10 B65D85/70 C11D17/06 B65B1/06 C11D17/04

European class: B65B1/06 B65D23/10 B65D85/70 C11D17/04 C11D17/06

US class: 141/1 141/18 215/1C 215/398 215/40 215/44 252/135 252/174 252/174.13 252/174.14 252/174.21 252/89.1 252/90 510/293 510/324 510/345 510/351 510/356 510/438 510/443 510/506 8/137 D9/376 D9/381 D9/528

[Classification Explorer](#)

Cited documents: ZA7501335, US4444673 A, US4351740 A, US4269722 A, US3926827 A, US3886098 A, US3849327 A, US3838072 A, US3547294 A, US3538004 A, US3512681 A, US3454499 A, US3434635 A, US3209961 A, US3177147 A, US3148804 A, US3066834 A, US2920777 A, US2793789 A, JP48008352 A2, GB1441416 A, GB1375131 A, DE7127686 U, DE2548639 A1, DE2520785 A1, DE2365270 A1, DE2338412 A1, DE2327956 A1, DE2205830 A1, DE1935867 A1, DE1863568 U,

Forward Citations: WO9850503, WO12049055, WO12049034, WO12049032, WO12048956, WO12048955, WO12048910, WO0212085, USD573475, USD566332, USD563228, USD511101, USD510866, USD500953, USD482973, USD480973, USD473790, USD472145, USD471465, US9512388, US9470248, US9365811, US9290725, US9290724, US9290723, US9284517, US9273271, US9062281, US8883702, US8678215, US7308919, US7115548, US7051907, US6983862, US6938805, US6656438, US6586501, US6548134, US6258864, US6191094, US6093258, US5866528, US5857502, US5849683, US5334491, US5332519, US5290496, US5168906, US5026400, US4998674, US4931203, US4908039, US4906395, US4858758, US4857223, US4776972, US4741851, US4707290, US4661281, US4652391, US4606775, US4549977, US4524010, US4444673, US4290903, US2014366490, US2011124545, US2011056903, US2008078765, US2007187413, US2005242121, US2005079356, US2005079201, US2005079200, US2004251157, JP61057699, JP2049756, JP2007224194, JP2007169387, FR2812622, EP2848521, EP2738109, EP2724951, EP2639291, EP2540633, EP1186652, EP0258991, EP0179264, EP0176163, EP0084657, EA007454, DE3241421, CN103180427, CN103180427, CN103180222, CN103180222, CN103154229, CN103153812, CN103153812, AU594434, AU2011316078, AT394379,

Abstract:

Source: US4269722A A bottled particulate detergent is of certain particle sizes, bulk density and flowability and is contained in a necked bottle in which the neck opening is sufficiently small as to allow ready sealing with screw caps conventionally employed to close bottles while also allowing pouring from the bottle of the particulate detergent of the described characteristics. The bottle also includes a relatively narrow, hollow handle section through which the particulate detergent will flow. Also disclosed is a method of easily filling such bottles with free flowing particulate detergent. In both dispensing and filling operations, due to the characteristic of the detergent composition and the bottle, flow surprisingly like that of a liquid is obtained.

13) Family number: 29371411 (US6601740B)

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Title: Closure device
Priority: GB19980022719 19981016 GB19990003660 19990217 WO1999GB03395 19991013
Family:

Publication number	Publication date	Application number	Application date
AT301083 E	20050815	AT19990949219T	19991013
AU199962194 A1	20000508	AU19990062194	19991013
AU199962194 A5	20000508	AU19990062194	19991013
DE69926530 D1	20050908	DE19996026530	19991013
EP1131253 A1	20010912	EP19990949219	19991013
EP1131253 B1	20050803	EP19990949219	19991013
GB9822719 A0	19981209	GB19980022719	19981016
GB9903660 A0	19990414	GB19990003660	19990217
US6601740 BA	20030805	US20010807065	20010702
WO0023344 A1	20000427	WO1999GB03395	19991013

Probable Assignee: CLIVE JOHN P
Assignee(s):^(std) CLIVE JOHN P ; CLIVE JOHN PHILIP ; JOHN PHILIP CLIVE
Inventor(s):^(std) CLIVE JOHN PHILIP
Inventor(s): JOHN PHILIP CLIVE
Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class
 (IPC 8-9): [B65D47/06 B65D47/24](#) (Advanced/Invention);
[B65D47/04 B65D47/06](#) (Core/Invention)

International class
 (IPC 1-7): [B65D47/06 B67D3/00](#)

CPC: [B65D47/061 B65D47/246 B65D47/247](#)

European class: [B65D47/06A B65D47/24C1 B65D47/24C2](#)

US class: [222/484 222/519 222/571](#)

[Classification Explorer](#)

Cited documents: WO9008098 A1, WO8701677 A1, US77378 A, US772707 A, US5794803 A, US5649650 A, US5620117 A, US5605254 A, US5419378 A, US5390828 A, US5199613 A, US5145094 A, US4998988 A, US4989757 A, US4982882 A, US4979655 A, US4974749 A, US4971230 A, US4807785 A, US4802610 A, US4781313 A, US4597508 A, US4550862 A, US4294382 A, US4241855 A, US4128189 A, US4105141 A, US4022357 A, US3955712 A, US3915359 A, US3873005 A, US3834597 A, US3690520 A, US3140799 A, US2919057 A, US2790582 A, US2772037 A, US2424101 A, US2165825 A, US2056170 A, US1023735 A, GB718897 A, GB2014115 A1, GB1445376 A, GB1044517 A, FR2246461 A1, CH365660 A,

Forward Citations: WO06123001, WO06123001, WO02074647, USD740661, USD707555, US9227766, US9004063, US8899437, US8529427, US7458586, US7438821, US7261226, US6702161, US6571994, US2009233836, US2009032488, US2006202430, ES2277519, AU2002238294,

Abstract:

Source: US6601740B A closure device has a hollow body with a side opening for liquid, an open end, and a closure end portion, and is slidably engaged in an end-piece screw-threadedly engaged on the end part of a neck of a bottle. The closure device seals the bottle when pressed down into the neck until its closure end portion seals against a ridge defining the end mouth of the outlet conduit constituted by the neck and its end-piece. When the device is raised to engage a lower bead in a groove of the end-piece, liquid can be poured out of the bottle by

way of the interior of the hollow body and the opening while air enters the bottle by way of an air inlet region and venting passages leading to an air outlet port. An inner barrier to liquid is formed by contact between the widest part of a skirt of the hollow body and the internal surface of the neck.

14) Family number: 15373442 (US2004198623A)

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Title: ORAL FEEDING BOTTLE

Priority: GB19970014138 19970707 GB19980014657 19980707 WO1998GB01784 19980707
 US20040828155 20040420 US20010743427 20010308 US19980743427 19980707

Family:

Publication number	Publication date	Application number	Application date
<u>AT288250 E</u>	20050215	AT19980932279T	19980707
<u>AU199882230 A1</u>	20000124	AU19980082230	19980707
<u>AU199882230 A5</u>	20000124	AU19980082230	19980707
<u>AU756113 B2</u>	20030102	AU19980082230	19980707
<u>CN1301145 A</u>	20010627	CN19988014149	19980707
<u>DE69828910 D1</u>	20050310	DE19986028910	19980707
<u>DE69828910 T2</u>	20060112	DE19986028910T	19980707
<u>EP1094779 A1</u>	20010502	EP19980932279	19980707
<u>EP1094779 B1</u>	20050202	EP19980932279	19980707
<u>ES2236916 T3</u>	20050716	ES19980932279T	19980707
<u>GB2324788 A1</u>	19981104	GB19980014657	19980707
<u>GB2324788 B2</u>	19991201	GB19980014657	19980707
GB9714138 A0	19970910	GB19970014138	19970705
GB9814657 A0	19980902	GB19980014657	19980707
<u>JP2002519149 T2</u>	20020702	JP20000557792T	19980707
<u>PT1094779 T</u>	20050531	PT19980932279T	19980707
<u>US2004198623 AA</u>	20041007	US20040828155	20040420
<u>US6739465 BA</u>	20040525	US20010743427	20010308
<u>US7632457 BB</u>	20091215	US20040828155	20040420
<u>WO0001344 A1</u>	20000113	WO1998GB01784	19980707

Probable Assignee: MRDC LTD

Assignee(s):^(std): CALVERT JOHN R ; CALVERT JOHN RICHARD ; HOBBS MICHAEL A ; HOBBS MICHAEL ANTHONY ; JOHN R CALVERT ; ROWLANDS MARTYN OMAR ; ROWLANDS MARTYN O ; MRDC LTD

Assignee(s): MRDC LTD EPPING ; MRDC LIMITED ; MICHAEL ANTHONY HOBBS ; MARTYN OMAR ROWLANDS ; JOHN RICHARD CALVERT

Inventor(s):^(std): CALVERT J R ; CALVERT JOHN RICHARD ; HOBBS M H ; HOBBS MICHAEL ANTHONY ; ROWLANDS M O ; ROWLANDS MARTYN OMAR

Inventor(s): J R CALVERT ; JOHN RICHARD CALVERT ; JR CALVERT ; M H HOBBS ; M O ROWLANDS ; MARTYN OMAR ROWLANDS ; MH HOBBS ; MICHAEL ANTHONY HOBBS ; MO ROWLANDS

Agent(s): MRDC LTD; OCCHIUTI ROHLICEK AND TSAO LLP

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

International class
^(IPC 8-9): A21D10/02 A61J11/00 A61J11/04 A61J9/00 A61J9/06 A61J9/08 A61L2/00 A61L2/07 A61L2/08 A61L2/12 A61L2/26 B08B3/00 B08B9/00 B08B9/09 B65D1/04 B65D23/12 B65D41/00 B65D55/16 (Advanced/Invention);
A61J11/04 A61J9/06 (Advanced/Non-invention);
A21D10/00 A61J11/00 A61J9/00 A61L2/00 A61L2/04 A61L2/08 A61L2/26 B08B3/00 B08B9/00 B65D1/04 B65D23/00 B65D41/00 B65D55/00 (Core/Invention)

International class
^(IPC 1-7): A61J11/00 A61J9/00 A61L2/26 B65D51/24

CPC: Y10S215/08 A61J11/008 A61J9/00 A61J9/008 A61J11/04 A61L2/07 A61L2/12 A61L2/26 A61L2202/23 A61J9/0646

European class: A61J11/00Z2 A61J9/00 A61J9/00E A61L2/07 A61L2/12 A61L2/26 K61J11/00Z2 K61J11/04 K61J9/06N4 K61L202/230

US class: 134/105 134/22.1 134/22.15 134/22.17 134/22.18 134/22.19 134/26 134/30 141/85 141/90 141/91 215/11.1 215/11.6 215/235 215/237 215/306 215/316 215/329 215/386 215/390 215/DIG.8 422/1 422/21 422/26 422/28 422/292 422/302 426/117 426/407 510/219

[Classification Explorer](#)

Cited documents: USD306952 S1, US6123065 A, US5419445 A, US5318191 A, US5213776 A, US5112628 A, US4815615 A, US4703863 A, US4376096 A, US3902618 A, US3747791 A, US3531009 A, US3373864 A, US3273703 A, US2843281 A, US2771073 A, US2167284 A, US1623544 A, US1466190 A, GB678550 A, GB2247624 A1, FR2684549 A1, FR1038319 A, EP0658349 A1, DE306952 A,

Forward Citations: WO11094773, WO08020201, WO06048878, WO06003283, USD648857, USD627895, USD627894, USD504049, US8365941, US2010288723, US2008197098, JP2015100509, JP2013507201, GB2440933, FR2871051, EP0555619,

Abstract:

Source: US2004198623A An oral feeding bottle includes a feed container with an open end and surfaces adapted to come into contact with a liquid feed in the container, a teat releasably connected to the open end and adapted to contact both the liquid feed and a person or animal feeding from the bottle, and a cap with two modes of operation, where in the first mode, the teat is connected to the container and the cap is adapted to fit over, enclose the teat, and be releasably connected to the feed container, and where in the second mode, the cap includes a means for stowing the teat in a non-dispensing position spaced from the container, where the teat and the surfaces that contact the liquid feed are in fluid communication so that the teat and the feed container are sterilized with a fluid sterilizing medium disposed in the container.

15) Family number: 30141675 (US4343754A)

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Title: PROCESS AND APPARATUS FOR MOLDING LINERS IN CONTAINER CLOSURES

Priority: CA19800360433 19800917 CA19820407905 19820723 CA19820407931 19820723
 CA19860515832 19860812 EP19820106577P 19820720 JP19800502288 19800908
 EP19820106577 19820720 EP19820106577 19820720 CA19820515832 19820723
 US19810286375 19810726 US19810270241 19810604 JP19820127821 19820723
 US19830608318 19831201 US19810286375 19810724 US19820390346 19820622
 US19810310769 19811013 US19790077566 19790921 WO1980US01143 19800908
 US19790077584 19790921 WO1980US01142 19800908

Family:

Publication number	Publication date	Application number	Application date
<u>AR226863 A1</u>	19820831	AR19800282599	19800919
<u>AR230239 A1</u>	19840301	AR19820290077	19820723
<u>AU198063343 A1</u>	19810414	AU19800063343	19800908
<u>AU198063392 A1</u>	19810414	AU19800063392	19800908
<u>AU198285551 A1</u>	19830127	AU19820085551	19820702
<u>AU198285552 A1</u>	19830127	AU19820085552	19820702
<u>AU538906 B2</u>	19840830	AU19800063343	19800908
<u>AU540432 B2</u>	19841115	AU19800063392	19800908
<u>AU556794 B2</u>	19861120	AU19820085551	19820702
<u>AU560751 B2</u>	19870416	AU19820085552	19820702
<u>BR8008834 A</u>	19810630	BR19800008834	19800908
<u>BR8008835 A</u>	19810630	BR19800008835	19800908
<u>BR8204327 A</u>	19830719	BR19820004327	19820723
<u>BR8204330 A</u>	19830719	BR19820004330	19820723
<u>CA1168812 A1</u>	19840612	CA19800360433	19800917
<u>CA1190519 A1</u>	19850716	CA19820407905	19820723
<u>CA1215206 A1</u>	19861216	CA19820407931	19820723
<u>CA1289104 A1</u>	19910917	CA19820515832	19820723
<u>CA1289104 A2</u>	19910917	CA19860515832	19860812
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<u>ZA8204808 A</u>	19830427	ZA19820004808	19820706
<u>ZA8205312 A</u>	19830727	ZA19820005312	19820723

Probable Assignee: HC IND

Assignee(s):^(std): HC IND

Assignee(s): H C PLASTIC INC ; HC IND INC ; H C PLASTIC INC A DE CORP ; H C INDUSTRIES INC
CRAWFORDSVILLE IND US ; WILDE SHELDON L ; MCCANDLESS THOMAS J ;
SAUNDERS ROBERT M ; EICHI SHII IND INC ; ETSUCHI SHII IND INC ; H C IND ; H C
IND INC ; H C IND INC A CORP INDIANA ; H C IND INC A CORP OF IN ; H C IND INC A

CORP OF IND ; H C IND INC AN CORP ; H C INDUSTRIES INC

Inventor(s):^(std): MACCANDLESS T ; MATSUKANDORES U TOOMASU JEI ; MATSUKANDORES U TOOMASU JEI ; MCCANDLESS T ; MCCANDLESS T J ; MCCANDLESS THOMAS ; MCCANDLESS THOMAS J ; SAUNDERS R ; SAUNDAAZU ROBAATO EMU ; SAUNDERS R ; SAUNDERS R M ; SAUNDERS ROBERT ; SAUNDERS ROBERT M ; SAUNDERS SHELDON L WILDE THOMA ; SHELDON L WILDE ; THOMAS J MCCANDLESS ; TJ MCCANDLESS ; TOOMASU JEI MATSUKYANDORES U ; TOOMASU JEI MATSUKIYANDORES U ; WAIRUDO SHERUDON ERU ; WAIRUDO SHIERUDON ERU ; WAIRUDO TSUERUDON ERU ; WILDE S ; WILDE S L ; WILDE S L MCCANDLESS T J SAUND ; WILDE SHELDON ; WILDE SHELDON L ; WILDE SL MCCANDLESS TJ SAUNDERS RM ; RM SAUNDERS ; ROBAATO EMU SAUNDAAZU ; ROBERT M SAUNDERS ; SHERUDON ERU WAIRUDO ; SHIERUDON ERU WAIRUDO ; SL WILDE ; SOUNDERS ROBERT M

Inventor(s): T J MCCANDLESS ; S L WILDE ; L WILDE SHELDON ; M SOUNDERS ROBERT ; WILDE S L MCCANDLESS T J SAUNDERS R M ; SHELDON L WILDE THOMAS J MCCANDLESS ROBERT M SAUNDE ; SHELDON L WILDE THOMAS J MCCANDLESS ROBERT M... ; SHELDON WILDE THOMAS MCCANDLESS ET ROBERT SAUNDERS ; R M SAUNDERS

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO

Designated states: AU BR DE FR GB IT JP NL SE

International class
(IPC 8-9): B29C33/00 B29C37/00 B29C41/20 B29C43/00 B29C43/02 B29C43/14 B29C43/18 B29C43/36 B29C43/40 B29C43/42 B29C43/50 B29C53/02 B29C55/00 B29C57/00 B29C59/02 B29C63/26 B29C65/00 B29C65/56 B29C67/00 B29C69/02 B29C70/80 B29D99/00 B65D41/02 B65D41/04 B65D41/20 B65D41/34 B65D41/38 B65D41/40 B65D49/12 B65D53/00 B65D53/04 B65D53/06 B65D55/02 B65D55/08 G09F3/03 (Advanced/Invention); B29C33/00 B29C37/00 B29C43/00 B29C43/02 B29C43/18 B29C53/02 B29C55/00 B29C59/02 B29C63/26 B29C65/00 B29C65/56 B29C67/00 B29L31/56 B65D41/04 B65D53/00 G09F3/03 (Advanced/Non-invention); B29C33/00 B29C37/00 B29C43/00 B29C43/02 B29C43/14 B29C43/18 B29C43/32 B29C43/36 B29C55/00 B29C57/00 B29C59/02 B29C63/26 B29C65/00 B29C65/56 B29C67/00 B29C69/02 B29C70/00 B29D99/00 B65D41/02 B65D41/04 B65D41/32 B65D41/34 B65D49/00 B65D53/00 B65D55/02 G09F3/03 (Core/Invention); B29C43/18 B29C53/00 (Core/Non-invention)

International class
(IPC 1-7): B29C13/02 B29C27/00 B29C3/00 B29C41/20 B29C43/00 B29C43/10 B29C63/26 B29C67/00 B29D1/00 B29D3/00 B29D31/00 B29D7/16 B29D9/08 B29L31/56 B65D39/00 B65D41/02 B65D41/04 B65D41/20 B65D41/32 B65D41/34 B65D41/38 B65D41/40 B65D49/12 B65D53/00 B65D53/04 B65D53/06 B65D55/02 B65D55/08 B65D55/12 B67B3/02 G09F3/03

CPC: B65D41/3423 Y10S425/809 Y10S425/058 B29C43/361 B65D41/04 B65D41/34 B29C43/146 B26F2210/04 B29C37/0014 B29C37/0017 B29C43/18 B29C43/184 B29C53/02 B29C57/00 B29C69/02 B29C2791/001 B29C2793/009 B29L2031/56 B65D41/0407 B65D41/3428 B65D2101/0046 B65D2101/0053 B65D41/045 B29C37/0082 B29C43/021 B29C43/42 B29C59/022 B29C67/0003 B29C67/0044 B29C70/80 B29L2001/00 B29L2031/565 B65D41/0435 B65D41/3466

European class: B29C37/00B3 B29C37/00B4 B29C37/00K2 B29C43/02B B29C43/14C B29C43/36C B29C43/42 B29C57/00 B29C59/02C B29C67/00B B29C67/00K B29C69/02 B29C70/80 B65D41/04 B65D41/04B B65D41/04D B65D41/04D2 B65D41/34 B65D41/34C B65D41/34C1 B65D41/34E1 L26F210/04 L29C37/00K2 L29C43/18 L29C43/18B2 L29C53/02 L29C66/71 L29C791/00B L29C793/00J L29L1/00 L29L31/56 L29L31/56B L65D101/00A3D L65D101/00A3E

US class: 215/246 215/252 215/329 215/343 215/350 248/163.2 249/59 264/154 264/230 264/250 264/266 264/268 264/274 264/291 425/110 425/112 425/127 425/291 425/809 425/DIG.58

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Abstract:

Source: US4343754A A process for making a composite closure having a plastic cap with specially configured pedestals that are interconnected to a plastic liner. In one embodiment, the pedestals are each formed with an overhang, such as a mushroom-shaped overhang, to provide a mechanical interlock with the liner. In other embodiments, the pedestals are each formed with a fusible heat concentration zone that is fused to the liner as the liner is compression molded and heated in the cap. In one embodiment, each of the fusible pedestals are formed with a cylindrical configuration. In another embodiment, each of the fusible pedestals are formed in the shape of a pyramid.

16) Family number: 28271433 (US2002195414A)

© PatBase

Title: Bottle cap having tear tab and sealing bead

Priority: US20010893181 20010626 US20010970534 20011003 US20030742416 20031219
WO2002US19425 20020617

Family:	Publication number	Publication date	Application number	Application date
	<u>CA2449494 AA</u>	20031202	CA20022449494	20020617
	<u>CN1289359 C</u>	20061213	CN20028012480	20020617
	<u>CN1518516 A</u>	20040804	CN20028012480	20020617
	<u>EP1399368 A1</u>	20040324	EP20020746587	20020617
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	<u>MXPA03011870 A1</u>	20040326	MX2003PA11870	20020617
	<u>US2002195414 AA</u>	20021226	US20010893181	20010626
	<u>US2002195415 AA</u>	20021226	US20010970534	20011003
	<u>US2004173563 AA</u>	20040909	US20030742416	20031219
	<u>US6681947 BB</u>	20040127	US20010893181	20010626
	<u>US7281636 BB</u>	20071016	US20030742416	20031219
	<u>WO03002421 A1</u>	20030109	WO2002US19425	20020617

Probable Assignee: PORTOLA PACKAGING INC

Assignee(s):^(std): KIM SUNGSUK S ; KIM SUNGSUK STEVE ; LUCH DANIEL ; PORTOLA PACKAGING INC

Assignee(s): WAYZATA INVESTMENT PARTNERS LLC ; WELLS FARGO FOOTHILL LLC AS AGENT ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDI ; WELLS FARGO FOOTHILL LLC AGENT AS ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDIN ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDINATED CREDITORS) ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDINATED CREDITORS ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; GENERAL ELECTRIC CAPITAL CORP ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGE ; GENERAL ELECTRIC CAPITAL US AGENT AND CANADIAN AGENT AS CORP ; HELLER FINANCIAL INC

Inventor(s):^(std): D LUCH ; DANIEL LUCH ; KIM S S ; KIM SUNGSUK S ; KIM SUNGSUK STEVE ; LUCH D ; LUCH DANIEL ; LUCH S S KIM D ; SS KIM

Inventor(s): SS KIM D LUCH ; S S KIM ; S S KIM D LUCH

Agent(s): SMART AND BIGGAR; ADAM K; JAMES P

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

International class
(IPC 8-9): B65D41/32 B65D41/34 B65D41/48 (Advanced/Invention);
B65D53/00 (Advanced/Non-invention);
B65D41/32 B65D41/34 (Core/Invention);
B65D53/00 (Core/Non-invention)

International class
(IPC 1-7): B65D41/32 B65D41/34 B65D41/48

CPC: B65D2101/0053 B65D2251/205 B65D41/48

European class: B65D41/48 L65D101/00A3E

US class: 215/253 215/254 215/341 220/266 220/270

[Classification Explorer](#)

Cited documents: WO8203612 A1, US6681947 BB, US6338414 BA, US6283331 BA, US6237790 BA, US6177041 BA, US6177041 B1, US6102226 A, US6082567 A, US5975320 A,

US5909827 A, US5868281 A, US5687865 A, US5662231 A, US5603422 A, US5513763 A, US5370270 A, US5284265 A, US5232125 A, US5224616 A, US4911316 A, US4884707 A, US4577771 A, US4564117 A, US4431111 A, US4256233 A, US4106653 A, US3979002 A, US3974932 A, US3840137 A, US3684124 A, US3392862 A, US3163308 A, US2652165 A, EP0025991 A1,

Forward Citations: WO14154255, WO13052219, WO10134931, WO07062364, WO07062364, WO05077778, USD751902, USD646971, US9738423, US9592936, US9533800, US9371161, US9321562, US8336730, US8177083, US8109404, US7931167, US7891511, US7611027, US7607592, US7581653, US7281636, US2013193100, US2013098914, US2012187126, US2011168660, US2011011869, US2010140268, US2009223960, US2009178994, US2007125783, US2007023383, US2007007230, US2005230342, US2005224446, US2004232149, US2004173563, US2003071042,

Abstract:

Source: US2002195414A A bottle cap including a top, a skirt, a locking bead, a tear tab, a line of weakness and a gusset. The top has a perimeter. The skirt depends from the perimeter and has having a bottom edge. The locking bead radially extends from the skirt intermediate the top and the bottom edge. The tear tab extends downward from the bottom edge. The line of weakness extends along the skirt upward from the bottom edge and onto the top. The gusset extends from the locking bead into the skirt. The cap allows a user to remove the cap from a bottle in a facile manner.

17) Family number: 8451024 (US5725896A)

© PatBase

Title: Carbonated beverage package
Priority: GB19930001440 19930125 GB19930003055 19930216 WO1994GB00127 19940121
Family:

Publication number	Publication date	Application number	Application date
AT153961 E	19970615	AT19940904710T	19940121
AU199458641 A1	19940815	AU19940058641	19940121
AU684488 B2	19971218	AU19940058641	19940121
CA2154651 AA	19950725	CA19942154651	19940121
DE69403628 D1	19970710	DE19946003628	19940121
DE69403628 T2	19980129	DE19946003628T	19940121
DK0680448 T3	19971229	DK19940904710T	19940121
EP0680448 A1	19951108	EP19940904710	19940121
EP0680448 B1	19970604	EP19940904710	19940121
ES2105627 T3	19971016	ES19940904710T	19940121
GB9301440 A0	19930317	GB19930001440	19930125
GB9303055 A0	19930331	GB19930003055	19930216
US5725896 A	19980310	US19960500978	19960214
WO9416966 A1	19940804	WO1994GB00127	19940121

Probable Assignee: CPB INNOVATIVE TECHNOLOGY LTD

Assignee(s):^(std): BANKS ANTHONY J ; BANKS ANTHONY JOHN ; CAMERON PRICE ERNEST J ; CPB INNOVATIVE TECH LTD ; CPB INNOVATIVE TECHNOLOGY LTD ; CPB INNOVATIVE TECHNOLOGY LIM

Assignee(s): CPB INNOVATIVE TECHNOLOGY LTD BIRMINGHAM GB ; CPB INNOVATIVE TECHNOLOGY LIMITED

Inventor(s):^(std): BANKS ANTHONY ; BANKS ANTHONY J ; BANKS ANTHONY JOHN

Inventor(s): BANKS ANTHONY JOHN WEATHEROAK W MIDLANDS B48 7HE G ; BANKS ANTHONY JOHN WEATHEROAK W MIDLANDS B48... ; ANTHONY JOHN BANKS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; RIDOUT AND MAYBEE LLP

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US UZ VN

International class
^{(IPC 8-9):} [B65D79/00](#) [B65D81/32](#) [B65D85/73](#) (Advanced/Invention);
[B65D79/00](#) [B65D81/32](#) [B65D85/72](#) (Core/Invention)

International class
^{(IPC 1-7):} [B65B17/00](#) [B65B31/00](#) [B65D79/00](#) [B65D81/32](#) [B65D85/72](#) [B67D1/04](#)

CPC: [B65D81/3216](#) [B65D85/73](#)

European class: [B65D79/00C](#) [B65D81/32C](#) [B65D85/73](#)

US class: [215/6](#) [220/581](#) [220/585](#) [426/112](#) [426/115](#) [426/124](#) [426/131](#) [426/394](#) [426/397](#) [426/477](#)
[53/120](#) [53/420](#) [99/323.1](#) [99/323.2](#)

[Classification Explorer](#)

Cited documents: WO9202434 A1, US5549037 A, US5460846 A, US4995533 A, US4458584 A, US4423670 A, US3578210 A, US3039644 A, US2631521 A, US2533806 A, US2073273 A, GB2256009 A1, EP0446973 A1, DE34756 A,

Forward Citations: WO9907606, WO9703890, WO9703890, WO13156827, WO09026541, WO05039988, WO05039988, WO0078632, US9289731, US9028898, US8479645, US8267007, US7735641, US6843368, US6039090, US2012306193, US2012292790, US2011151085, US2011113972, US2009255929, US2007138032, US2006193947, GB2318562, GB2306430, GB2306430, GB2293166, EP2617664, EP0895938, EP0835840,

EP0701966, DE10020282, CN105059753, CN105059753, AU768877, AU708481,
AU708481, AU693115, AU693115, AU689619, AU689619,

Abstract:

Source: US5725896A A beverage container assembly (28) comprising a container body defining a beverage chamber for containing a beverage, and a gas reservoir unit (1) adapted to be housed substantially within the container body (22). The gas reservoir unit (1) is adapted to be charged with a gas under super-atmospheric pressure whilst the reservoir unit (1) is outside of the container (22), and to retain the gas prior to insertion of the unit into the container body. A gas reservoir unit containing one or more chambers is also described.

0) US5297686A – BOTTLE WITH EAR

18) Family number: 17146411 (US5297686A)

© PatBase

Title: BOTTLE WITH EAR

Priority: CA19922073083 19920703 EP19910311990 19911223 GB19910021861 19911015
 JP19900417079 19901229 JP19900406068 19901229 JP19900406068U 19901229
 US19960656069 19960531 JP19910077101U 19910830 US19940209773 19940311
 US19930025823 19930303 US19910814112 19911226 JP19910077101 19910830

Family:

Publication number	Publication date	Application number	Application date
AT158774 E	19971015	AT19910311990T	19911223
AT233699 E	20030315	AT19910104157T	19911223
CA2073083 AA	19930301	CA19922073083	19920703
CA2073083 C	19971209	CA19922073083	19920703
CN1023099 C	19931215	CN19911011974	19911228
CN1062878 A	19920722	CN19911011974	19911228
DE69127804 D1	19971106	DE19916027804	19911223
DE69127804 T2	19980129	DE19916027804T	19911223
DE69133209 D1	20030410	DE19916033209	19911223
DE69133209 T2	20040212	DE19916033209T	19911223
DK0498123 T3	19971027	DK19910311990T	19911223
EP0498123 A1	19920812	EP19910311990	19911223
EP0498123 B1	19971001	EP19910311990	19911223
EP0785146 A2	19970723	EP19970104157	19911223
EP0785146 A3	19970820	EP19970104157	19911223
EP0785146 B1	20030305	EP19970104157	19911223
ES2108037 T3	19971216	ES19910311990T	19911223
ES2194134 T3	20031116	ES19970104157T	19911223
GB2251844 A1	19920722	GB19910021861	19911015
GB2251844 B2	19950705	GB19910021861	19911015
GB2278802 A1	19941214	GB19940012461	19911015
GB2278802 B2	19950712	GB19940012461	19911015
GB9121861 A0	19911127	GB19910021861	19911015
GB9412461 A0	19940810	GB19940012461	19911015
GR3025567 T3	19980331	GR19970403217T	19971202
HK114696 A	19960712	HK19960001146	19960704
HK114796 A	19960712	HK19960001147	19960704
JP2523802 Y2	19970129	JP19900406068U	19901229
JP2617815 B2	19970604	JP19900417079	19901229
JP4094620 U1	19920817	JP19900406068U	19901229
JP4270628 A2	19920928	JP19900417079	19901229
JP5018823 U1	19930309	JP19910077101U	19910830
KR19920011877 A	19920725	KR19910023927	19911223
KR960010303 B1	19960730	KR19910023927	19911223
MX9102692 A1	19920810	MX19910002692	19911219
US5297686 A	19940329	US19930025823	19930303
US5783138 A	19980721	US19960656069	19960531

Probable Assignee: A K TECH LAB INC

Assignee(s):^(std): A K TECH LAB INC

Assignee(s): A K TECHNICAL LABORATORY INC ; A K TECHNICAL LABORATORY INC
SAKAKIMACHI NAGANO JP ; AK TECHNICAL LABORATORY KK ; AOKIKO
KENKIYUUSHIYO KK ; A K TECHNICAL LABORATORY K K ; TAKEUCHI SETSUYUKI ;
AK TECHNICAL LABORATORY INC

Inventor(s):^(std): SETSUO TAKEUCKI ; SETSUYUKI TAKEUCHI ; TAKEUCHI SETSUYUKI

Inventor(s): TAKEUCHI SETSUYUKI HANISHINA GUN NAGANO KEN JP ; TAKEUCHI SADAYUKI

Agent(s): FETHERSTONHAUGH AND CO

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

International class
(IPC 8-9): B29C33/42 B29C49/00 B29C49/06 B29C49/08 B29C49/18 B29C49/20 B29C49/48
B29C65/68 B65D1/00 B65D23/10 B65D25/28 B65D5/46 (Advanced/Invention);
B29L22/00 (Advanced/Non-Invention);
B29C33/42 B29C49/00 B29C49/06 B29C49/08 B29C49/20 B29C49/48 B29C65/00
B65D1/00 B65D23/10 B65D25/28 B65D5/46 (Core/Invention)

International class
(IPC 1-7): B29C33/42 B29C49/06 B29C49/06 B29C49/08 B29C49/18 B29C49/20 B29C49/48
B29C65/68 B29L22/00 B65D1/00 B65D23/10 B65D25/28 B65D5/46

CPC: B29B2911/1433 B29B2911/14331 B29B2911/14336 B29B2911/14337 B65D23/106
B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29B2911/14326
B29B2911/14333 B29B2911/1444 B29B2911/1448 B29C49/0073 B29C49/06
B29L2031/463 B29B2911/1446 B29B2911/14466

European class: B29C49/00G B29C49/06 B65D23/10D2 L29B911/14B2B L29B911/14B2D
L29B911/14B2F L29B911/14B2H L29B911/14D10D4D2 L29B911/14D10D4D4
L29B911/14D10D4F L29B911/14D10D8 L29B911/14D2 L29B911/14D4 L29C49/06
L29L31/46B

US class: 215/100A 215/396 220/758 220/769 264/230 264/342R 264/537

[Classification Explorer](#)

Cited documents: US5038454 A, US4964522 A, US4842158 A, US4832216 A, US4727997 A, US4422843
A, US4372454 A, US4368826 A, US4367821 A, US3944643 A, US3610671 A,
JP61061823 A2, GB2174669 A1, GB2131344 A1, GB2129364 A1, GB2067952 A1,
EP0480836 A2, EP0232207 A2, EP0136222 A2, DE2143262 A1,

Forward Citations: WO9719801, WO9637416, WO06032113, WO05047128, WO0119692, USD452444,
USD451033, USD451032, USD439844, USD439521, USD438803, USD428338,
USD425418, USD423350, USD421386, US9534695, US9470335, US9114911,
US9079205, US7648038, US7600655, US7228982, US7143904, US7097061,
US6998091, US6986863, US6926163, US6824001, US6730253, US6444158,
US6413468, US6179143, US5918761, US5819966, US5647930, US5637167,
US2014110369, US2014061248, US2008141887, US2007262047, US2007257005,
US2007221608, US2007221607, US2006124580, US2006124579, US2005218109,
US2005082251, US2005035084, US2002124931, JP2007001645, GB2268922,
EP1176100, EP1083129, EP0870593, EP0870593, EP0827479, EP0822891,
EP0822891, AU721739, AU712895,

Abstract:

Source: US5297686A A bottle with an ear obtained by orientation blow molding, in which a mounting portion positioned at a predetermined height has a large diameter and upper portion composed of an outer wall in the form of an injection molded flange and an inner wall oriented internally thereof and placed in close contact therewith. The mounting portion having a predetermined width in an outer periphery thereof, is formed below a mouth portion of the bottle by injection orientation blow molding. An upper edge of the mounting groove is formed to have an edge having a plurality of notches at equal intervals. A mounting ring is internally provided with a plurality of projecting surfaces positioned at the mounting groove through the notches and is formed integral with a bended end of an ear. The projecting surfaces of the mounting ring and the upper edge of the mounting groove are fitted with each other whereby the ear and the bottle are integrally connected.

19) Family number: 18648900 (US4377242A)

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Title: ANTI-TAMPERING DEVICES FOR BOTTLES
Priority: GB19800008356 19800312 GB19820002517 19820129 US19810242352 19810310
Family:

Publication number	Publication date	Application number	Application date
BR8101433 A	19810915	BR19810001433	19810311
EP0035918 A1	19810916	EP19810301051	19810312
EP0085506 A1	19830810	EP19830300267	19830119
ES267977 U	19830501	ES19810267977U	19810312
GB2071044 A1	19810916	GB19800008356	19800312
GB2071603 A1	19810923	GB19810007872	19810312
GB2071603 B2	19840905	GB19810007872	19810312
GB2116933 A1	19831005	GB19820002517	19820129
GB2116933 B2	19850807	GB19820002517	19820129
JP56142159 A2	19811106	JP19810034703	19810312
US4377242 A	19830322	US19810242352	19810310
US4449637 A	19840522	US19820425757	19820928

Probable Assignee: SEAGRAM DISTILLERS PLC

Assignee(s):^(std): SEAGRAM DISTILLERS LIMITED ; SEAGRAM DISTILLERS LTD ; SEAGRAM DISTILLERS PLC ; SHIIGURAMU DEISUTEIRAAZU LTD

Assignee(s): SEAGRAMS DISTILLERS A CORP OF UNITED KINGDOM LTD ; SEAGRAM DISTILLERS UNITED KINGDOM A CORP OF UNITED KINGDOM LTD ; MEDTRONIC INC ; SEAGRAM DISTILLERS UNITED KINGDOM A CORP OF UNITED ; SEAGRAMS DISTILLERS LTD ; SEAGRAMS DISTILLERS LIMITED

Inventor(s):^(std): SNEDKER ROBERT ; SNEDKER R ; ROBAATO SUNETSUKAA

Inventor(s): ROBERT SNEDKER

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

International class [B65D47/02 B65D49/02](#) (Advanced/Invention);
^{(IPC 8-9):} [B65D47/00 B65D49/00](#) (Core/Invention)

International class [B65D47/02 B65D47/20 B65D49/02 B65D49/12 B65G49/02](#)
^{(IPC 1-7):}

CPC: [B65D1/023 B65D49/02](#)

European class: [B65D49/02](#)

US class: [215/21 215/29](#)

[Classification Explorer](#)

Cited documents: US4331413 A, US4258854 A, US4217988 A, US4067472 A, US4043473 A, US3794202 A, US3073470 A, US3018910 A, US2079775 A, US2079125 A, US2038392 A, US2009738 A, GB970678 A, GB238418 A, GB2071044 A1, GB2026428 A1, GB2000099 A1, GB1532652 A, FR2123201 A1, FR1113454 A, EP0035918 A1,

Forward Citations: WO9212908, WO08114979, WO07088317, WO05110883, WO0046577, US9637271, US9409682, US9334084, US9193508, US9145240, US8056761, US6357614, US5971179, US5806697, US5295502, US5036876, US4573611, US4458817, US2014319178, US2009039082, US2007228074, US2005167455, US2004069812, GB2327932, GB2267694, GB2236999, GB2236999, GB2195974, GB2195974, GB2116933, ES2257141, EP1752382, EP0249438, EP0218528, EP0218528, EP0180411, EP0085506, CN105600129, CN104943972, CN104943972, CN102582932,

Abstract:

Source: US4377242A A device is provided which is non-removably mounted in the mouth of a bottle and which prevents or obstructs the addition of adulterating liquids to the contents of the bottle. The device includes a plastics tubular body 13 having detachably attached to its lower end a non-return valve comprising a ball 14 and

a seating ring 15, and a baffle disc 18 formed integrally with the body covers the ball. The body 13 is secured in the bottle mouth by a flanged plastics collet 16 having at its lower end integral resilient tongues 31 which are forced into engagement with a shallow channel 11 on the internal surface of the neck by the act of pressing the body 14 and valve down into the position shown, the valve seating ring 15 having a frusto-conical external surface for this purpose. Upward movement of the body relative to the collet is prevented by a shoulder 22 on the body which comes into abutment with the lower ends of the tongues 31. Liquid can flow past the ball and the baffle to allow the bottle to be emptied but the valve prevents refilling of the bottle. Attempted interference with the ball valve from above can cause the valve to become detached from the body and fall into the bottle to provide visible evidence of tampering.

20) Family number: 30733579 (US2004140321A)

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Title: MIXING AND DISPENSING APPARATUS
Priority: US20030346169 20030117 US20040754629 20040112 US20040755675 20040113
Family:

Publication number	Publication date	Application number	Application date
AT506281 E	20110515	AT20040100136T	20040116
DE602004032277 D1	20110601	DE200460032277T	20040116
EP1439133 A1	20040721	EP20040100136	20040116
EP1439133 B1	20110420	EP20040100136	20040116
ES2364461 T3	20110902	ES20040100136T	20040116
US2004140321 AA	20040722	US20030346169	20030117
US2004238566 AA	20041202	US20040755675	20040113
US2005163651 AA	20050728	US20040754629	20040112
US6851580 BB	20050208	US20030346169	20030117
US7066354 BB	20060627	US20040755675	20040113

Probable Assignee: VELTEK ASSOCIATES INC
Assignee(s):^(std): STANK ROBERT E ; VELLUTATO ARTHUR L SR ; VELLUTATO SR ARTHUR L ; VELTEK ASSOCIATES INC
Assignee(s): VELTEK ASSOC ; VELLUTATO ARTHUR LSR ; VELLUTATO ARTHUR L
Inventor(s):^(std): STANK ROBERT E ; VELLUTATO ARTHUR L ; VELLUTATO ARTHUR L SR ; VELLUTATO SR ARTHUR L
Inventor(s): VELLUTATO ; SR ARTHUR L ; VELLUTATO ARTHUR LSR ; VELLUTATO ARTHUR
Agent(s): P AND TS PATENTS AND TECHNOLOGY SURVEYS SA; BLANK ROME LLP
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR
International class
 (IPC 8-9): [A61L2/02](#) [A61L2/08](#) [B65B55/16](#) [B65D51/28](#) [B65D81/32](#) [B67D5/56](#) [B67D7/74](#) [B67D7/78](#) (Advanced/Invention);
[A61L2/08](#) (Advanced/Non-invention);
[A61L2/02](#) [A61L2/08](#) [B65B55/02](#) [B65D81/32](#) [B67D7/74](#) [B67D7/78](#) (Core/Invention);
[A61L2/08](#) (Core/Non-invention)
International class
 (IPC 1-7): [A61L2/08](#) [B65D51/28](#) [B65D81/32](#) [B67D5/56](#) [B67D5/60](#)
CPC: [A61L2/022](#) [A61L2/08](#) [B65B55/16](#) [B05B11/0081](#) [B05B11/30](#) [B65D81/3222](#)
European class: [A61L2/02F](#) [A61L2/08](#) [B65B55/16](#) [B65D81/32C1](#)
US class: [206/221](#) [222/129](#) [222/130](#) [222/130P](#) [222/525](#) [422/22](#)

[Classification Explorer](#)

Cited documents: WO02085775 A1, US6851580 BB, US6851580 BA, US6851580 B1, US6305576 BA, US6152296 A, US6150423 A, US6123900 A, US6073803 A, US6041969 A, US6022134 A, US5950819 A, US5941380 A, US5875889 A, US5860569 A, US5811060 A, US5772017 A, US5613623 A, US5543097 A, US5538508 A, US5421483 A, US5383579 A, US5215225 A, US5114011 A, US5038951 A, US5029718 A, US4982875 A, US4903865 A, US4793475 A, US4757916 A, US4615437 A, US4591050 A, US4264007 A, US4221291 A, US4195731 A, US4195730 A, US4177938 A, US3968872 A, US3966089 A, US3856138 A, US3458076 A, US3347410 A, US3326400 A, US3156369 A, US2781141 A, FR2707601 A3, DE460043 A, DE20022904 U1, DE20022904, DE2002290,

Forward Citations: WO13048950, US9809442, US9764342, US9574412, US9527650, US9238541, US9108208, US8987331, US8789716, US8528784, US8523017, US8464910, US8424696, US8302816, US8267281, US8261943, US8157131, US7938258, US7926682, US7066354, US2014183225, US2014076569, US2013233738, US2013075495, US2011174837, US2010282704, US2010147887, US2010122992,

US2010116346, US2010089947, US2010084430, US2010084369, US2010084368,
US2009277929, US2008121655, US2008083779, US2008073375, US2007275125,
US2004238566, EP3053657, EP2758334, CN103813973, CN103813973,

Abstract:

Source: US2004140321A A mixing and dispensing apparatus has a small bottle which is positioned within a larger bottle. The small bottle contains a concentrated solution, and the larger bottle contains water. The small bottle has a nozzle that is off-center, a grip base that is an integral part of the bottle, and a vent to maintain zero atmospheric pressure internally. The small bottle is inverted and placed within the neck of the large bottle. The small bottle is then rotated so that the neck of the nozzle comes between two arms of a release mechanism which is an integral part of the large bottle. In an alternative preferred embodiment, the nozzle is centered, and is pushed through the arms of the release mechanism. Once the apparatus is ready for use, the small bottle is pulled upward using the base grip or a pull ring, thereby opening the nozzle and releasing the contents of the small bottle into the large bottle. The contents are poured out through the space between the small bottle and the neck of the large bottle, or through a separate pour spout.

0) US4448317A – TAMPER EVIDENT CLOSURES AND PACKAGES

21) Family number: 28673962 (US4448317A)

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Title: TAMPER EVIDENT CLOSURES AND PACKAGES

Priority: CA19840447712 19840217 EP19840101269 19840208 US19880292661 19881230
WO1984US00206 19840213 US19830467791 19830218

Family:

Publication number	Publication date	Application number	Application date
<u>AT39459 E</u>	19890115	AT19840101269T	19840208
<u>AU198426538 A1</u>	19840910	AU19840026538	19840213
<u>AU561982 B2</u>	19870521	AU19840026538	19840213
<u>CA1253116 A1</u>	19890425	CA19840447712	19840217
<u>DE3475769 D1</u>	19890202	DE19843475769	19840208
<u>EP0116892 A2</u>	19840829	EP19840101269	19840208
<u>EP0116892 A3</u>	19850911	EP19840101269	19840208
<u>EP0116892 B1</u>	19881228	EP19840101269	19840208
<u>ES290070 U</u>	19861116	ES19840290070U	19840217
<u>ES290070 Y</u>	19870716	ES19840290070U	19840217
<u>ES290070 Y1</u>	19870814	ES19840290070U	19840217
<u>IE55522 B</u>	19901010	IE19840000379	19840217
<u>IE840379 L</u>	19840818	IE19840000379	19840217
<u>IL70843 A0</u>	19840531	IL19840070843	19840201
<u>IL70843 A1</u>	19870831	IL19840070843	19840201
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<u>JP60500524 T2</u>	19850418	JP19840501094T	19840213
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<u>MX158578 A</u>	19890215	MX19840200380	19840217
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<u>US4448317 A</u>	19840515	US19830467791	19830218
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<u>WO8403270 A1</u>	19840830	WO1984US00206	19840213
<u>ZA8400458 A</u>	19850227	ZA19840000458	19840120

Probable Assignee: ZAPATA INNOVATIVE CLOSURES INC

Assignee(s):^(std): TRI TECH SYST ; TRI TECH SYSTEMS INT INC ; TRI TECH SYSTEMS INTERNATIONAL INC ; TRI TECH SYSTEMS INTERNAT INC

Assignee(s): YODER J SCOTT ; ZAPATA INNOVATIVE CLOSURES INC ; TRI TECH SYSTEMS INTERNATIONAL INC ; FIRST FEDERAL SAVING AND LOAN ASSOCIATION OF TOLED ; FIRST FEDERAL SAVING AND LOAN ASSOCIATION OF TOLEDO 701 FIRST FEDERAL PLAZA TOLEDO OH 43624 ; INNOVATIVE CLOSURES INC ; MID AMERICAN BANK AND TRUST CO ; MID AMERICAN NATIONAL BANK AND TRUST CO ; TRI TECH SYSTEMS INT ; SCHEICH RICHARD A ; MID AMERICAN NATIONAL BANK AND TRUST COMAPNY ; S D TECHNOLOGIES INC ; TORAI TEKU SHISUTEMUZU INTERN INC ; MID AMERICAN NATIONAL BANK AND TRUST CO 222 SOUTH ; S D TECHNOLOGIES INC FL CORP ; THOMPSON MORTIMER S ; MID AMERICAN NATIONAL BANK AND TRUST CO 222 SOUTH MAIN STREET BOWLING GREEN OHIO 43402

Inventor(s):^(std): ASHER ELI ; THOMPSON MORTIMER S ; THOMPSON MORTIMER STAFFORD ; THOMPSON MS ; THOMPSON M S ; STAFFORD THOMPSON MORTIMER ; MORTIMER S THOMPSON ; ELI ASHER

Inventor(s): TONPUSON MOOTEIMAA SUTATSUFUOODO

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY; REINHOLD COHN AND PARTNERS

Designated states: AT AU BE BR CF CG CH CM DE DK FI FR GA GB HU IT JP LI LU MC MR NL NO RO SE SN SU TD TG

International class
(IPC 8-9): B65D41/18 B65D41/34 B65D55/02 (Advanced/Invention);
B65D41/34 (Advanced/Non-invention);
B65D41/02 B65D41/34 B65D55/02 (Core/Invention)

International class
(IPC 1-7): B65D41/04 B65D41/18 B65D41/28 B65D41/34 B65D55/02 B67B1/00 B67B3/00

CPC: Y10S206/807 B65D55/026

European class: B65D55/02G

US class: 206/459.1 206/807 215/203 215/230 215/365

[Classification Explorer](#)

Cited documents: US4678083 A, US4666052 A, US4603785 A, US4591063 A, US4579240 A, US4489841 A, US4461389 A, US4456139 A, US4436213 A, US4432462 A, US4424911 A, US4423822 A, US3984005 A, US3935960 A, US3923198 A, US3923198, US3899295 A, US3896965 A, US3887734 A, US3887734, US3468744 A, US3433152 A, US2939597 A, US2414420 A, US2201205 A, JP59209542,

Forward Citations: WO9205083, WO9106486, WO9106486, WO9128640, WO9128640, WO9047702, WO05021400, US9708105, US9637271, US9409686, US9409682, US9334084, US8800471, US8322555, US8286812, US7913870, US7704589, US7682696, US6968968, US6929136, US6478175, US6108475, US6102224, US6029807, US5566846, US5477972, US5284694, US5257705, US5240131, US5236101, US5156720, US5152412, US5145079, US5104704, US5103979, US5064664, US5062928, US5055150, US5022545, US5015318, US4994314, US4927036, US4905851, US4837061, US4801028, US4793500, US4771923, US4736857, US4718553, US2016137381, US2016068311, US2015176818, US2011232560, US2010089922, US2009255897, US2007289935, US2006246802, US2006068168, US2006054526, US2005056645, KR100982879, GB2345067, GB2283735, EP1660383, EP0303400, EP0269317, EP0269317, EP0243545, EP0243545, EP0233077, EA007707, DE4002967, CN105189301, AU597572,

Abstract:

Source: US4448317A A tamper evident closure and package having a container (10), a resealable, substantially rigid closure (12) for closing, opening and reclosing the container (10), color changing means (32a in Figures 1-6) which effect a color change upon stretching, and coacting mechanical means (24, 36, 44 and 46 in Figures 1-6) for uncapping and recapping the closure 10 and for stretching the color changing means (32a) which clearly and unequivocally indicate the condition of the package, e.g., open or closed. Where legends, or other well defined indicia, indicating opening is desired, the color changes can be localized in the skirt by providing thin sections (32a) which stretch preferentially and adjacent thicker sections (38) which remain substantially unstretched. The thin sections (32a) for example can be a legend, or alternatively the thick sections (38) can be the legend while the thin sections (32a) provide a suitable background. The colour changes employed by the invention can be accomplished by such phenomena as stress whitening inherent in various plastic materials. Alternatively, the color changes can be accomplished by mechanisms such as the use of encapsulated staining or coloring agents incorporated in a suitable matrix.

22) Family number: 44045073 (US2011094618A)

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Title: HEADSPACE MODIFICATION METHOD FOR REMOVAL OF VACUUM PRESSURE AND APPARATUS THEREFOR

Priority: AU20090249899 20090518 AU20130203869 20130411 NZ20080568439 20080519
 NZ20080573865 20081219 CN200980124882 20090518 NZ20100589386 20101119
 US20120603324 20120904 US20100993253 20101117 US20130797282 20130312
 US20130797369 20130312 NZ20110591553 20110304 US20130884954 20130511
 US20100510881 20101117 US20150722086 20150526 WO2009NZ00079 20090518
 WO2011NZ00243 20111118 US20160275450 20160925 US20160345306 20161107

Family:

Publication number	Publication date	Application number	Application date
<u>AU2009249899 AA</u>	20091126	AU20090249899	20090518
<u>AU2009249899 BB</u>	20130829	AU20090249899	20090518
<u>AU2013203869 AA</u>	20130502	AU20130203869	20130411
<u>CA2724358 AA</u>	20091126	CA20092724358	20090518
<u>CN102076567 A</u>	20110525	CN200980124882	20090518
<u>CN102076567 B</u>	20131120	CN200980124882	20090518
<u>CN103287612 A</u>	20130911	CN201310196291	20090518
<u>CN103287612 B</u>	20151125	CN201310196291	20090518
<u>CO6311094 A2</u>	20110822	CO20100155079	20101209
<u>ECSP10010686 A</u>	20110131	EC2010SP10686	20101216
<u>EP2303704 A1</u>	20110406	EP20090750830	20090518
<u>EP2303704 A4</u>	20141217	EP20090750830	20090518
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<u>HK1153709 A1</u>	20140606	HK20110107855	20110728
<u>HK1189378 A1</u>	20170106	HK20140102426	20140311
<u>IN04387KN2010 A</u>	20111125	IN2010KN04387	20101122
<u>JP2011520721 T2</u>	20110721	JP20110510449T	20090518
<u>MX339714 B</u>	20160607	MX20100012585	20090518
<u>MY160864 A</u>	20170331	MY20100005385	20090518
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<u>UA109103 C2</u>	20150727	UA20100105264	20090518
<u>US2011094618 AA</u>	20110428	US20090993253	20090518
<u>US2013055679 AA</u>	20130307	US20120603324	20120904
<u>US2013247513 AA</u>	20130926	US20130797282	20130312
<u>US2013291494 AA</u>	20131107	US20130797369	20130312
<u>US2017008745 AA</u>	20170112	US20160275450	20160925
<u>US2017305581 AA</u>	20171026	US20160345306	20161107
<u>VN16087 A1</u>	20161125	VN20100003430	20090518
<u>WO09142510 A1</u>	20091126	WO2009NZ00079	20090518
<u>ZA201008396 A</u>	20110831	ZA20100008396	20101123

Probable Assignee: DAVID MELROSE

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MURRAY ; DAVID MURRAY MELROSE

Agent(s): BALDWINS INTELLECTUAL PROPERTY; SHERRARD SMITH HUGH

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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV
SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class B65B B65B1/20 B65B31/00 B65B31/02 B65B31/04 B65B31/06 B65B55/02 B65B7/28
(IPC 8-9): B65D1/02 B65D47/24 B65D47/30 B65D47/32 B65D51/00 B65D51/16 B65D51/24
B65D79/00 B67C3/06 B67C3/14 B67C3/22 B67C7/00 (Advanced/Invention);
B67C3/22 (Advanced/Non-invention);
B65B31/00 B65B31/04 (Core/Invention);
B65B31/04 (Core/Non-invention);
B65B (Subclass/Invention)

International class B65B31/04
(IPC 1-7):

CPC: B65B7/2842 B65B7/2807 B65B31/006 B65B31/06 B65D47/243 B65D47/30 B65D79/005
B67C2003/226 B67C3/222 B67C7/00 B67C3/14 B67B3/2066 B67C3/045 B65B31/046

European class: B65B31/00B B65B31/06 B65D47/24A2 B65D47/30 B65D79/00B L67C3/22L

US class: 141/11 141/11P 141/69 141/69S 220/212 220/212S 53/111R 53/287 53/432 53/440
53/476

[Classification Explorer](#)

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AA, RU2006111278 A, JP64023991 A2, JP56113515 A2, GB2271347 A1, GB2050319
A1, GB1561143 A, EP0701966 A2,

Forward Citations: WO16177987, WO16146749, WO12067524, WO11062512, US9764873, US9707711,
US9643746, US9624018, US9522749, US9346212, US9150320, US9090363,
US9022776, US8991441, US8962114, US8919587, US8747727, US8726616,
US8671653, US8627944, US2009120530, FR3035876, EP2397418, CN102795583,
CN102686484,

Abstract:

Source: US2011094618A To modify the headspace in a container to remove vacuum pressure, a container has a seal or cap which may provide a temporary opening into the container which is sealable under compression to provide a controlled raising of the internal pressure as the heated contents of the container cools. A sealing chamber (84) may enable the introduction of a fluid into the headspace (23b) to force the fluid level (40) lower. Other methods and apparatus are described.

23) Family number: 31748407 (US2001045368A)

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Title: Wafer packaging device for disc-shaped items and related materials and method for packaging such discs and material

Priority: AU19990060423 19990923 AU20040200524 20040211 AU20080202286 20080523
 US20000565342 20000505 US19980161064 19980925 NZ19990510717 19990923
 US20000627593 20000728 US20000565396 20000505 US20000702266 20001031
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 WO2001US14406 20010504 WO1999US21261 19990923 WO2002US23757 20020726

Family:

Publication number	Publication date	Application number	Application date
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AU199960423 A5	20000417	AU19990060423	19990923
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AU2002322677 AA	20030217	AU20020322677	20020726
AU2004200524 AA	20040311	AU20040200524	20040211
AU20080202286 AA	20080612	AU20080202286	20080523
AU771585 B2	20040325	AU19990060423	19990923
BRPI0211501 A	20040914	BR2002PI11501	20020726
BRPI9914060 A	20011016	BR1999PI14060	19990923
CA2345094 AA	20010321	CA19992345094	19990923
CA2455617 AA	20040126	CA20022455617	20020726
CN1184116 C	20050112	CN19998013014	19990923
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CZ20011010 A3	20020612	CZ20010001010	19990923
DE69936069 D1	20070621	DE19996036069	19990923
DE69936069 T2	20080110	DE19996036069T	19990923
EP1177142 A1	20020206	EP19990969702	19990923
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<u>US6571943 BB</u>	20030603	US20020154320	20020522
<u>US6588182 BB</u>	20030708	US20020154316	20020522
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<u>US6840375 BB</u>	20050111	US20020219357	20020815

US7004315 BB	20060228	US20020219358	20020815
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US7156229 BB	20070102	US20040966126	20041015
US7178667 BB	20070220	US20020219355	20020816
VN5082 A1	20050926	VN20010000285	19990923
WO0018663 A1	20000406	WO1999US21261	19990923
WO0018663 C2	20000824	WO1999US21261	19990923
WO0185575 A1	20011115	WO2001US14406	20010504
WO03011716 A1	20030213	WO2002US23757	20020726

Probable Assignee: AVECMEDIA INC

Assignee(s):^(std): AVECMEDIA INC ; CHARLES W ; CHARLES W GRIMES ; GORDON ALEXANDRA ; GRIMES CHARLES W ; PLUMB WILLIAM L ; ALEXANDRA GORDON ; GRIMES CHARLES W DARIEN

Assignee(s): GRIMES CHARLES W DARIEN CONNECTICUT ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; WILLIAM L PLUMB

Inventor(s):^(std): ALEXANDRA GORDON ; CHARLES W GRIMES ; GORDON ALEXANDRA ; GRIMES CHARLES W ; PLUMB WILLIAM L

Inventor(s): WILLIAM L PLUMB ; GRIMES CHARLES

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BLAKE CASSELS AND GRAYDON LLP; WOLFF BREGMAN AND GOLLER; GREGORY J BATTERSBY ESQ GRIMES AND BATTERSBY LLP; GRIMES AND BATTERSBY LLP

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

International class
(IPC 8-9): [B65D1/36](#) [B65D25/08](#) [B65D25/10](#) [B65D51/24](#) [B65D51/28](#) [B65D77/08](#) [B65D77/24](#) [B65D85/00](#) [B65D85/57](#) [G11B23/03](#) [G11B33/04](#) (Advanced/Invention); [B65B7/28](#) [B65D25/10](#) [B65D85/00](#) [B65D85/57](#) [G11B23/03](#) (Advanced/Non-invention); [B65D25/04](#) [B65D51/24](#) [B65D77/00](#) [B65D77/24](#) [B65D85/57](#) [G11B23/03](#) [G11B33/04](#) (Core/Invention)

International class
(IPC 1-7): [A63H3/00](#) [B65B7/28](#) [B65D25/10](#) [B65D51/28](#) [B65D69/00](#) [B65D71/00](#) [B65D77/08](#) [B65D85/00](#) [B65D85/02](#) [B65D85/28](#) [B65D85/30](#) [B65D85/57](#) [G11B23/03](#)

CPC: [B65D25/08](#) [B65D51/24](#) [B65D51/28](#) [B65D77/24](#) [G11B33/0422](#) [G11B33/0427](#) [G11B33/045](#) [G11B33/0444](#)

European class: [B65D25/08](#) [B65D51/24](#) [B65D51/28](#) [B65D77/24](#) [G11B33/04D1B](#) [G11B33/04D1B1](#) [G11B33/04D2B](#) [G11B33/04D2B1](#)

US class: [206/214](#) [206/216](#) [206/217](#) [206/232](#) [206/303](#) [206/303S](#) [206/307](#) [206/308.1](#) [206/308.100P](#) [206/308.100S](#) [206/310](#) [206/445](#) [206/445S](#) [206/493](#) [206/736](#) [215/227](#) [215/229](#) [220/505](#) [220/521](#) [220/522](#) [224/220](#) [224/604](#) [224/674](#) [281/31](#) [446/73](#) [446/73S](#) [53/410](#) [53/420](#) [53/471](#) [53/471S](#) [53/474](#) [534/100](#) [G9B/033.014](#) [G9B/33.01](#) [G9B/33.011](#) [G9B/33.014](#) [G9B/33.014S](#) [G9B/33.015](#)

[Classification Explorer](#)

Cited documents: WO9834846 A1, WO9639345 A1, US6659271 BB, US6557698 BB, US6533114 BA, US6481573 BB, US6481573 BA, US6478336 BB, US6454087 BB, US6443299 BB, US6443299 BA, US6349823 BA, US6241417 BA, US6216857 BA, US6196411 BA, US6112891 A, US6092650 A, US6070752 A, US5908109 A, US5906290 A, US5904266 A, US5855273 A, US5829583 A, US5819929 A, US5816394 A, US5769218 A, US5769217 A, US5749460 A, US5697498 A, US5586651 A, US5542532 A, US5542531 A, US5515968 A, US5513762 A, US5477960 A, US5423451 A, US5289917 A, US5284243 A, US5180079 A, US5082136 A, US5076444 A, US5076433 A, US5040687 A, US4978004 A, US4874085 A, US4869891 A, US4869364 A, US4756424 A, US4535888 A, US4522298 A, US4197940 A, US4078686 A, US3941275 A, US3746158 A, US3556339 A, US3530981 A, US3225805 A, US3103224 A, US3070275 A, US3047199 A, US3000640 A, US2739751 A, US2020381 A, US2015028 A, US2003141206 AA, US2002050709 AA, US1940088 A, US1890988 A, US1464827 A, FR2734940 A1, DE20015045 U1,

Forward Citations:

WO09057038, WO07073471, WO07073471, WO06060857, WO06057625, WO05118459, WO04014776, WO04014776, WO03084827, USD795007, USD591173, USD558191, USD552930, USD548526, USD469296, USD465350, US9730540, US9622605, US9352912, US9260228, US9162798, US9079114, US9078535, US9038845, US8939312, US8919592, US8870010, US8714393, US8708181, US8695845, US8596491, US8590730, US8401949, US8381935, US8245413, US8215488, US7942260, US7753201, US7651097, US7506756, US7374041, US7341754, US7328791, US7246703, US7219813, US7210577, US7188350, US7156229, US7108129, US7100787, US7055687, US6915898, US6830147, US6647700, US6647696, US2016366999, US2014021202, US2013288562, US2013068801, US2011315566, US2011210126, US2011139673, US2011138752, US2011061256, US2009308873, US2009114650, US2009101654, US2008308430, US2008264943, US2008135430, US2008121556, US2008055554, US2008006646, US2007162921, US2007140921, US2007128400, US2007095684, US2007062943, US2007039958, US2007023310, US2006196786, US2006070893, US2006066047, US2006060479, US2006042969, US2005263413, US2005252798, US2005205437, US2005184137, US2005178940, US2005167294, US2005092629, US2005082177, US2005061687, US2005051442, US2004262176, US2004190430, US2004182725, US2004168936, US2004154938, US2004149598, US2004076109, US2004050724, US2004031797, US2004026274, US2003094387, US2002175093, US2002039609, JP2008532854, JP2008522904, JP2006030818, GB2442058, FR2844172, EP1600396, EP1551749, EP1533245, EP1529738, EP1480221, EP1419098, DE19963958, DE19963958, CN103915362, CN103915362,

Abstract:

Source: US2001045368A An elongated packaging device is provided for packaging at least one disc-shaped item such as, for example, a recording media disc such as a CD, a CD-ROM or a DVD, together with other materials relating to such disc or otherwise in a stacked relationship. The packaging device includes a first member or wafer for the storage of disc-shaped media in a first chamber and a second member or container for the storage of a beverage in a second chamber, which container is sealed by a cover having an opening at the center thereof for the insertion of a straw. The first chamber is an annular inner chamber for receiving the disc media and includes a cylindrical inner structure defining central support for the disc media by means of the annular opening at the center thereof, such that the disc media is allowed to rotate, while limiting the linear movement of the disc media both perpendicular to and parallel to the plane of the media. The inner structure includes an aperture therethrough, which aperture aligns with the opening of the cover when the wafer is in place on the cover. The disc-shaped media is sealed within the annular inner chamber of the wafer by means of a circular protective element which engages the cylindrical inner structure and the perimeter of the wafer, thereby preventing the passage of any substance into the inner chamber of the wafer. In the preferred embodiment, the protective element is heat-sealed to the inner structure and perimeter of the wafer, although other attachment means, such as adhesives, or sealing compression fits, are contemplated. A means for penetration is disposed in the center of the protective element such that the penetration means is aligned with the aperture through the inner structure such that a straw may be inserted through the means for penetration, the aperture in the inner structure and the opening in the cover in order to gain access to the beverage. In the preferred embodiment, the means for penetration comprises an "X" shaped incision known as a "kiss cut." A method is further provided for packaging such disc-shaped item and other material within the packaging device.

24) Family number: 34889303 (US2007164058A)

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Title: POURING APPARATUS FOR CARBONATED BEVERAGES IN BOTTLES**Priority:** US20050750513P 20051215 US20060611117 20061214

Family:	Publication number	Publication date	Application number	Application date
	<u>US2007164058 AA</u>	20070719	US20060611117	20061214

Probable Assignee: BURKOVSKIY IGOR**Assignee(s):^(std):** BURKOVSKIY IGOR**Inventor(s):^(std):** BURKOVSKIY IGOR**Agent(s):** IGOR BURKOVSKIY

International class B65D35/38 B65D51/16 (Advanced/Invention);
 (IPC 8-9): B65D35/24 B65D51/16 (Core/Invention)

CPC: B67D3/0061**European class:** B67D3/00R2**US class:** 215/228 215/260 222/566[Classification Explorer](#)

Cited documents: US6257463 BA, US6244476 BA, US6095382 A, US5772076 A, US5197634 A, US5139182 A, US4261487 A, US4253588 A, US3887116 A, US3834596 A, US3738545 A, US3439842 A, US3276640 A, US2936935 A, US2834520 A, US2815156 A, US2167476 A, US2004050884 AA,

Forward Citations: WO15010040, US9617045, US9482215, US8672185, US2013270270, US2011204090,**Abstract:**

Source: US2007164058A The present invention comprises an apparatus which, when inserted into the neck of a bottle, facilitates the dispensing of carbonated beverages such as soda, beer and sparkling wines. The invention does so in a manner that prevents spillage of a carbonated beverage, while retaining the gas that gives the beverage its "fizz" within the bottle into which the beverage was originally placed. The cap valve, which creates a water tap inside the bottleneck maintains a secure seal that prevents material from escaping, even if the contents are under pressure. The cap functions like a faucet that opens or closes upon rotation. In the open state it regulates outflow and has structural safeguards to prevent accidental removal from the bottleneck. To put a secure seal on the bottle, the cap presses against the double neck outlet with its valve that has a gasket. Between the end of the moving part that directs the flow in the double neck and the inside of the cap exists a locking space, which enables the valve to securely cover the double neck outlet upon application of pressure by the cap on the bottle, thus impeding outflow. When the cap is unscrewed from the bottle, the valve frees the double neck outlet, creating a passageway that enables outflow of the container's contents. If the bottle contains carbonated liquids, the best method for pouring involves holding the container in such a way that its bottom is higher than the cap and the liquid covers the valve. Because liquid is heavier than gas, only liquid will flow through the cap's open valve. The rest of the gas will remain in the container. This will markedly improve the quality of carbonated soft drinks or similar products. There are added optional features to enable a user to drink directly from the bottle by utilizing: (1) a cone like cup or (2) a tube and nipple configuration.

0) US2010270259A – CONTAINER WITH RIB ELEMENTS PATTERNED IN A BRIC...

25) Family number: 47452267 (US2010270259A)

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Title: CONTAINER WITH RIB ELEMENTS PATTERNED IN A BRICK PATTERN

Priority: CA20102704333 20100517 CA20152704333 20151030 US20090335849F 20090423
US20090552375 20090902 US20090178824P 20090515 US20100781475 20100517
US20130750733 20130125

Family:	Publication number	Publication date	Application number	Application date
	CA2704333 AA	20101115	CA20102704333	20100517
	CA2704333 C	20160112	CA20102704333	20100517
	CA2909856 AA	20101115	CA20102909856	20100517
	US2010270259 AA	20101028	US20090552375	20090902
	US2011049085 AA	20110303	US20100781475	20100517
	US2013140263 AA	20130606	US20130750733	20130125
	US9403625 BB	20160802	US20130750733	20130125
	USD631753 S1	20110201	US20090335849F	20090423

Probable Assignee: GRAHAM PACKAGING CO

Assignee(s):^(std): GRAHAM PACKAGING CO ; LEMBKE BRYAN J ; PRITCHETT JR RAYMOND A ;
TROPICANA PROD INC ; RUSSELL MATTHEW A

Assignee(s): BANK OF NEW YORK MELLON ; PRITCHETT RAYMOND A ; PRITCHETT RAYMOND A
JR ; GRAHAM PACKAGING CO LP ; GRAHAM PACKAGING COMPANY L P ;
REYNOLDS GROUP HOLDINGS INC ; TROPICANA PRODUCTS INC

Inventor(s):^(std): GREEN NICOLE ; LEMBKE BRYAN J ; PRITCHELL JR RAYMOND A ; PRITCHETT JR
RAYMOND A ; PRITCHETT RAYMOND A ; PRITCHETT RAYMOND A JR ; RUSSELL
MATTHEW A

Agent(s): MACRAE AND CO; KNOBLE YOSHIDA AND DUNLEAVY; STERNE KESSLER
GOLDSTEIN AND FOX PLLC; KNOBLE YOSHIDA AND DUNLEAVY LLC

International class
^(IPC 8-9): [B65D1/02](#) [B65D1/40](#) [B65D23/00](#) [B65D90/02](#) (Advanced/Invention);
[A61L2/07](#) [B29K23/00](#) [B29K67/00](#) (Advanced/Non-invention)

CPC: [B65D1/0246](#) [B65D23/102](#) [B65D2501/0036](#) [B65D2501/0045](#) [B65D23/00](#) [B65D2501/0081](#)
[B65D1/0276](#) [B29K2067/003](#) [B29K2023/065](#)

European class: [B65D1/02D1B](#) [B65D1/02D2C](#) [B65D23/10B](#) [L29K23/06B9](#) [L29K67/00B](#) [L65D501/02Y1C](#)
[L65D501/02Y1E](#) [L65D501/02Y9](#)

US class: [1/1](#) [215/370](#) [215/382](#) [D9/560](#) [D9/569](#) [D9/570](#) [D9/571](#)

Locarno class: [09/01](#)

[Classification Explorer](#)

Cited documents: USD93724 S1, USD67463 S1, USD631753 S1, USD619011 S1, USD599213 S1,
USD598775 S1, USD587582 S1, USD571220 S1, USD566572 S1, USD560506 S1,
USD543863 S1, USD527648 S1, USD525139 S1, USD514947 S1, USD510031 S1,
USD508854 S1, USD506142 S1, USD502405 S1, USD412119 S1, USD411803 S1,
USD387279 S1, USD324822 S1, USD307393 S1, USD291865 S1, USD268324 S1,
USD227343 S1, USD189540 S1, USD186472 S1, USD113862 S1, US7347339 BB,
US7243808 BB, US7213719 BB, US7032770 BB, US6938788 BB, US6857531 BB,
US6581794 BB, US6550627 BB, US6497333 BA, US6149024 A, US6112925 A,
US6062408 A, US6036037 A, US5746339 A, US5740934 A, US5704503 A, US5632397
A, US5499730 A, US5238129 A, US5178290 A, US5122327 A, US5054632 A,
US2010270259 AA, US2010084359 AA, US2010072166 AA, US2010006533 AA,
US2008093329 AA, US2005279728 AA, US2003010743 AA, JP9240647 A2,
JP2000127231 A2, GB2161133 A1,

Forward Citations: WO16089404, USD798725, USD796957, USD793237, USD753504, USD739759,
USD736091, USD722883, USD699116, USD699115, USD696126, USD670562,
USD655182, USD655181, USD655180, USD655179, USD655176, USD641638,
US9499293, US9403625, US9150331, US9150320, US8956707, US8556098,
US2013140264, US2013043209, US2011049085,

Abstract:

Source: US2010270259A A container for beverages has a plurality of side panels having rib elements. The container preferably has the rib elements arranged in a brick pattern. The container reduces the deformation of the side panels that occurs when gripped.

26) Family number: 11900306 (US5804744A)

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Title: Apparatus for obtaining, storing and transporting liquid samples and methods for making and using same

Priority: US19960723861 19960930 US19980052871 19980331 WO1997US17174 19970925

Family:	Publication number	Publication date	Application number	Application date
	<u>JP2001507294 T2</u>	20010605	JP19980516663T	19970925
	<u>TW386158 B</u>	20000401	TW19970114001	19970925
	<u>US5804744 A</u>	19980908	US19960723861	19960930
	<u>US5996424 A</u>	19991207	US19980052871	19980331
	<u>WO9814160 A2</u>	19980409	WO1997US17174	19970925
	<u>WO9814160 A3</u>	19990325	WO1997US17174	19970925

Probable Assignee: QUANTUM GLOBAL TECHNOLOGIES LLC

Assignee(s):^(std): CHEMTRACE ; CHEMTRACE CORP

Assignee(s): FOX CHASE BANK ; METRON TECHNOLOGY DISTRIBUTION CORP ; METRON TECHNOLOGY CORP ; QUANTUM GLOBAL TECHNOLOGIES LLC ; APPLIED MATERIALS INC

Inventor(s):^(std): DOUGHERTY DIANNE M ; TAN SAMANTHA S H

Inventor(s): TAN SAMANTHA SH ; TAN SAMANTHA S

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

International class
(IPC 8-9): B01L3/00 B29C49/00 B65D1/00 G01N1/10 G01N1/14 (Advanced/Invention);
B29L22/00 G01N1/14 G01N1/20 (Advanced/Non-invention);
B01L3/00 B29C49/00 B65D1/00 G01N1/10 (Core/Invention);
G01N1/14 G01N1/20 (Core/Non-invention)

International class
(IPC 1-7): A61J B29C49/00 B29L22/00 B65D1/09 G01N1/00 G01N1/14

CPC: B01L3/505 G01N1/14 G01N2001/2071

European class: B01L3/00C4 B01L3/505 S01N1/14 S01N1/20B7

US class: 73/864.34

[Classification Explorer](#)

Cited documents: US5780520 A, US5622183 A, US5507194 A, US5140855 A, US5002193 A, US4948642 A, US4917867 A, US4816223 A, US4397643 A, US4250893 A, US4207981 A, US4118195 A, US3951313 A, US3809068 A, US3796542 A, US3718133 A, US3603156 A, US3557788 A, US3340869 A, US3083193 A, US2717598 A, US1601829 A, JP9039110 A2, JP8192455 A2, JP8190184 A2, JP8091339 A2, JP7313972 A2, JP7292200 A2, JP5177693 A2, GB1031641 A,

Forward Citations: WO07117228, WO07117228, WO04104558, US9517873, US9022079, US8147141, US8132600, US7954521, US7634847, US7138461, US7083476, US6921797, US6820507, US6703461, US6686427, US6597163, US6365246, US2014223994, US2011052768, US2010044210, US2009115443, US2008285899, US2008034900, US2008019863, US2007225336, US2006231519, US2006037931, US2005235474, US2005181678, US2005161061, US2005107535, US2004232584, US2004147698, US2004083826, KR20160127304, KR101674075, JP2009073518, JP2003062037,

Abstract:

Source: US5804744A A low contamination bottle for sampling, storing, and transporting of chemical samples includes a bottle portion defining an internal volume and having a threaded neck, and a cap portion provided with threads that engage the threaded neck of the bottle to provide a fluid-tight seal between the internal volume of the bottle and the ambient environment. The bottle has a flexible sidewall portion that permits the reduction of the internal volume to allow a liquid sample to be drawn into the bottle portion by a suction or vacuum process. Both the bottle portion and the cap portion are made from a material selected from the chemical resistant group consisting essentially of hydrocarbon polymers and fluorocarbon polymers, where the material generates less than 1 ppb of metal contaminants and 1 ppm of leachable anionic and organic contaminants. The flexible sidewall

portion of the bottle portion has a minimum thickness of 0.2 mm such that the low contamination bottle meets all safety requirements for the transport of hazardous chemical samples.

27) Family number: 56144696 (US2015197371A)

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Title: BOTTLES WITH MEANS TO PREVENT GUSHING
Priority: EP20130798544 20130926 US20120706058P 20120926 US20150669386 20150326
 WO2013BE00049 20130926

Family:	Publication number	Publication date	Application number	Application date
	EP2903903 A1	20150812	EP20130798544	20130926
	EP2903903 B1	20170426	EP20130798544	20130926
	ES2634390 T3	20170927	ES20130798544T	20130926
	US2015197371 AA	20150716	US20150669386	20150326
	WO14047697 A1	20140403	WO2013BE00049	20130926

Probable Assignee: KATHOLIEKE UNIVERSITEIT LEUVEN

Assignee(s):^(std): UNIV LEUVEN KATH

Assignee(s): KATHOLIEKE UNIVERSITEIT LEUVEN

Inventor(s):^(std): DECKERS SYLVIE ; DERDELINCKX GUY ; KHALESİ MOHAMMADREZA ; MARTENS JOHAN ; RIVEROS GALAN DAVID SANTI ; SHOKRIBOUSJEIN ZAHRA ; SMET SAM ; VERACHTERT HUBERT ; VERLOOY PIETER

Agent(s): IPLODGE BVBA; ELZABURU SLP ELZABURU SLP; KATHOLIEKE UNIVERSITEIT LEUVEN

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 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

International class [B65D1/02](#) [B65D23/02](#) (Advanced/Invention)
 (IPC 8-9):

CPC: [B65D1/0207](#) [B65D23/02](#)

US class: [215/12.2](#)

[Classification Explorer](#)

Cited documents: WO05047166 A1, US7296508 BB, US7052725 BB, US6599594 BA, US6345729 BA, US6036054 A, US4311250 A, US4171056 A, US3598269 A, US3047417 A, US2011226658 AA, US2009285965 AA, US2005262813 AA, US2005224425 AA, US2002028304 AA, JP3048501 B2, JP3048499 B2, JP2810694 B2, JP2006020985 A2, JP2003112796 A2, JP2001293344 A2, CN201099613 Y, CN201052872 Y, CN201016040 Y,

Forward Citations: USD759493,

Abstract:

Source: US2015197371A The present invention relates to hydrophobic coating of hydrophilic bottles for carbonated beverages to prevent gushing, in particular to hydrophobic coating of the bottle neck of a glass bottle. The invention also relates to a method to apply such hydrophobic coating to the inner surface of the glass bottle neck.

28) Family number: 1053122 (US3955696A)

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Title: Bottle and safety closure**Priority:** DE19732353742 19731026**Family:**

Publication number	Publication date	Application number	Application date
AT337029 B	19770610	AT19740008197	19741011
AT819774 A	19760915	AT19740008197	19741011
AU496848 B2	19781102	AU19740074570	19741022
BE821034 A	19750203	BE19740149500	19741014
BE821034 A1	19750203	BE19740149500	19741014
CA1018935 A1	19771011	CA19740211872	19741021
CH584139 A	19770131	CH19740012755	19740920
DE2353742 A1	19750430	DE19732353742	19731026
DE2353742 C2	19830804	DE19732353742	19731026
DK139565 B	19790312	DK19740005431	19741016
DK139565 C	19791022	DK19740005431	19741016
DK543174 A	19750707	DK19740005431	19741016
ES430586 A1	19761001	ES19740430586	19741002
FR2248986 A1	19750523	FR19740033700	19741007
FR2248986 B1	19791012	FR19740033700	19741007
GB1464739 A	19770216	GB19740042288	19740930
IE40324 B	19790509	IE19740002165	19741022
IE40324 L	19750426	IE19740002165	19741022
IL45869 A0	19741231	IL19740045869	19741017
IL45869 A1	19770531	IL19740045869	19741017
IT1019349 A	19771110	IT19740053131	19740920
JP1136355 C3	19830228	JP19740123284	19741025
JP50124784 A2	19751001	JP19740123284	19741025
JP57005742 B4	19820201	JP19740123284	19741025
LU71173 A	19750417	LU19740071173	19741024
NL7412952 A	19750429	NL19740012952	19741001
SE7413412 A	19750428	SE19740013412D	19741024
SE7413412 L	19750428	SE19740013412	19741024
US3955696 A	19760511	US19740514910	19741015

Probable Assignee: FINKE KUNSTSTOFF ROBERT**Assignee(s):^(std):** FINKE KUNSTSTOFF ROBERT ; FINKE R ; FINKE ROBERT KUNSTSTOFF SPITZG ; STAHL F US ; KLAUS WERNER FINKE ; ROBERT FINKE KUNSTSTOFFS SPRIT**Assignee(s):** ROBERT FINKE KUNSTSTOFF SPRITZGUSS WERK 5950 FINNENTROP DE ; FIRMA ROBERT FINKE KUNSTSTOFF SPRITZGUSS WERK TE FINNENTROP LENHAUSEN BONDSREPUBLIC DUTSLAND ; FINKE KLAUS W ; ROBERT FINKE KUNSTSTOFF SPRITZGUSS WERK ; FINKE ROBERT KUNSTSTOFF SPRITZGUSS WERK ; ROBERT FINKE KUNSTSTOFFS SPRITZ GUSS WERK ; FINKE ROBERT KUNSTSTOFF SPITZGUSS WERKE ; FINKE R KUNSTSTOFF SPRITZGUSS WERK ; FINKE KUNSTSTOFF SPRITZGUSS WERK ; FINKE KUNSTSTOFF SPRITZGUSS WERK DT ; FINKE KUNSTSTOFFSPRITZGUSSWERK R**Inventor(s):^(std):** FINKE K W ; FINKE KLAUS W ; FINKE KLAUS WERNER**Inventor(s):** KLAUS WERNER FINKE ; VERZICHT DES ERFINDERS AUF NENNUNG**Agent(s):** EITAN PEARL LATZER AND COHEN ZEDEK

International class (IPC 8-9): A61J1/00 B65D41/04 B65D41/18 B65D41/34 B65D50/04 B65D55/02 (Advanced/Invention);
A61J1/00 B65D41/02 B65D41/04 B65D41/34 B65D50/00 B65D55/02 (Core/Invention)

International class (IPC 1-7): A61J1/00 B65D41/02 B65D41/04 B65D41/16 B65D41/18 B65D41/28 B65D55/02
B65D55/06 B65D55/12 B65D85/56

CPC: B65D41/0414 B65D41/3409 B65D50/048

European class: B65D41/04B1 B65D41/34A1 B65D50/04F4

US class: 215/211 215/214 215/224 215/252 215/258 215/318

[Classification Explorer](#)

Cited documents: US3792793 A, US3737064 A, US3695475 A, US3371808 A, US3285452 A, FR1569844 A, DE1946268 B2, DE176896 A,

Forward Citations: WO04000661, WO04000661, WO0170586, USD442090, US9046122, US8757407, US7980427, US7293396, US7210593, US7028858, US6968965, US6431380, US6371316, US5829609, US5552117, US5402900, US5292019, US5115932, US5111947, US4936474, US4579239, US4461390, US4436212, US4380299, US4335823, US4298129, US4280631, US4156490, US4057160, US4051974, US2010135747, US2008257913, US2006273060, US2006213861, US2006124501, US2005263477, US2005242054, US2003155322, JP63188216, JP59152156, JP59124271, JP59041036, JP57125155, JP55044753, JP3006729, JP1158451, EP0679366, EP0679366, EP0160474, EP0160474, DE8904496, DE3722447, DE2450264, AU679614, AU2000275831,

Abstract:

Source: US3955696A A bottle or similar container is provided with a safety closure comprising a push-on cap having a sealing plug on its base penetrating into the bottle mouth and having projections on the inside of its peripheral wall which engage behind an annular beading on the bottle neck to retain the cap on the bottle. In addition to the beading, mutually opposite cams project from the bottle neck each providing an upper surface which ascends in a circumferential direction towards the bottle mouth. The peripheral wall of the cap, which is made of a slightly flexible material, is spaced from the bottle neck and at mutually opposite positions on its inside there are inwardly projecting cam followers which clear the cams when the cap is rotated normally but which engage and ride up the upper cam surfaces when the cap is pressed inwards in the regions of the followers and the cap is simultaneously rotated in the same direction as the cam surfaces ascend, thereby pushing the cap off the bottle.

0) US3939623A – PLASMA COLLECTION SYSTEM

29) Family number: 1169385 (US3939623A)

© PatBase

Title: Plasma collection system

Priority: MX19740141232 19741209 US19730427197 19731221 US19750579768 19750522
US19750552571 19750224

Family:

Publication number	Publication date	Application number	Application date
<u>AT369991 B</u>	19830225	AT19740009724	19741205
<u>AT972474 A</u>	19820715	AT19740009724	19741205
<u>AU197475549 A1</u>	19760520	AU19740075549	19741120
<u>BE823653 A</u>	19750416	BE19740151757	19741220
<u>BE823653 A1</u>	19750416	BE19740151757	19741220
<u>CA1038313 A1</u>	19780912	CA19740214158	19741119
<u>CH615633 A</u>	19800215	CH19740016772	19741217
<u>DE2459404 A1</u>	19750703	DE19742459404	19741216
<u>DK141650 B</u>	19800519	DK19740006622	19741218
<u>DK141650 C</u>	19801013	DK19740006622	19741218
<u>DK662274 A</u>	19750908	DK19740006622	19741218
<u>ES433015 A1</u>	19770316	ES19740433015	19741217
<u>ES451003 A1</u>	19770816	ES19760451003	19760826
<u>FR2255232 A1</u>	19750718	FR19740041722	19741218
<u>FR2255232 B1</u>	19820205	FR19740041722	19741218
<u>GB1485058 A</u>	19770908	GB19740055433	19741223
<u>IL46101 A0</u>	19750210	IL19740046101	19741121
<u>IL46101 A1</u>	19770831	IL19740046101	19741121
<u>IT1030903 A</u>	19790410	IT19740030451	19741211
<u>JP50096090 A2</u>	19750730	JP19740135073	19741122
<u>MX6833 U</u>	19860815	MX19740008598U	19741209
<u>NL7415795 A</u>	19750624	NL19740015795	19741204
<u>NO143788 B</u>	19810105	NO19740004579	19741219
<u>NO143788 C</u>	19810415	NO19740004579	19741219
<u>NO744579 A</u>	19750721	NO19740004579	19741219
<u>SE7416196 A</u>	19750623	SE19740016196	19741220
<u>US3939623 A</u>	19760224	US19750579768	19750522
<u>US3957168 A</u>	19760518	US19750552571	19750224
<u>ZA7407580 A</u>	19751231	ZA19740007580	19741127

Probable Assignee: BAXTER LABORATORIES INC

Assignee(s):^(std): BAXTER LABORATORIES INC ; BAXTER TRAVENOL LAB

Assignee(s): BAXTER TRAVENOL LABOR INC ; BAXTER TRAVENOL LABORATORIES ; BAXTER TRAVENOL LABORATORIES INC ; TORAU GUNTHER W ; SHINE DENNIS F ; BAXTER LABORATORIES INC TE MORTON GROVE ILLINOIS VER ST V AM ; BAXTER LABORATORIES INC US ; BAXTER LAB INC ; BAXTER LABOR INC

Inventor(s):^(std): SHINE D ; SHINE D F ; SHINE DENNIS F ; SHINE DENNIS F ING ; TORAU G ; TORAU G W ; TORAU GUNTHER W ; TORAU GUNTHER W ING

Inventor(s): W TORAU GUNTHER ; DENNIS F SHINE ; DENNIS F SHINE AND GUNTHER W TORAN ; F SHINE DENNIS ; GUNTHER W TORAU

Agent(s): REINHOLD COHN AND PARTNERS

International class A61B5/15 A61J1/00 A61J1/05 B65B29/00 B65B69/00 B65D1/02 (Advanced/Invention) ;
(IPC 8-9) : A61B5/15 A61J1/05 A61M5/00 (Advanced/Non-Invention) ;

A61B5/15 A61J1/00 A61J1/05 B65B29/00 B65B69/00 B65D1/02 (Core/Invention);
A61M5/00 (Core/Non-invention)

International class
(IPC 1-7):

A61B5/14 A61J1/00 A61J5/00 A61J9/00 A61K35/12 A61K35/16 A61M1/02 A61M5/00
A61M5/14 B65B29/00 B65B3/04 B65B3/10 B65B3/18 B65B51/10 B65B69/00 B65B7/16
B65D1/02 B65D11/04 B65D17/00 B65D23/00 B65D41/20 B65D77/12 B65D85/50
B65D85/70 B67B

CPC:

A61J1/05 A61M2207/00 B65B29/00 B65B69/0033 B65D1/0238

European class:

A61J1/00T A61J1/05 B65B29/00 B65B69/00C B65D1/02D1A K61M207/00

US class:

206/525 215/1C 215/47 414/412 422/918 53/25 53/440 53/468 604/403

[Classification Explorer](#)

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Forward Citations:

WO9418109, WO9324371, US9302794, US8684202, US8117809, US7594790, US7530211, US7497994, US7326355, US7150624, US6488897, US6326010, US6251343, US6197936, US5876675, US5358376, US5269427, US5054272, US5054267, US5022544, US4944647, US4643309, US4568345, US4508236, US4340152, US4234095, US4197954, US2013146499, US2012000878, US2009211198, US2008056865, US2007187317, US2005218075, US2004228770, US2004123567, JP6079018, JP55146158, JP4057452, JP2014014343, JP2004033740, ITMI20122219, GB2290520, GB2290520, FR2714362, ES2245836, EP1537023, EP1348631, EP0561468, EP0261084, EP0261084, EP0057189, EP0057189, DE202010016024,

Abstract:

Source: US3939623A There is disclosed herein a method for collecting blood plasma in plastic bottles wherein the blood plasma can be stored for periods of time and can then be utilized in obtaining blood fractions therefrom. The method includes the concept of filling a previously sterilized and hermetically sealed bottle with blood plasma. The bottle, after filling, is sealed at the neck portion thereof by means of heat sealing. The portion of the bottle above the heat seal is severed. Thereafter, the filled bottle is frozen and transported to the site for use. The bottle containing the plasma is then thawed and conveyed to a plasma removing device. The plasma is removed by severing a portion of the bottom of the plastic bottle, thereby permitting the liquefied plasma to flow therefrom into a collection vat. The bottle in which the plasma is collected and stored has a unique configuration in that it is a blow-molded bottle having a cap thereon which is produced integrally with the bottle so that it is always in a sterile condition. In one embodiment, the cap is broken from the top of the bottle, thereby exposing a mouth having a threaded configuration thereabout so that a cap may be screwed thereon. The cap has means for venting and for introduction of a probe through which the plasma is conveyed into the bottle. In another embodiment, the top of the bottle terminates in a membrane suitable for piercing with a probe and a venting arrangement is included, whereby the plasma can be charged into the plastic bottle. Below the mouth, there is a flattened neck portion providing an area at which a heat sealing means can be applied to further compress into abutment the neck and to heat seal same in that condition. The upper portion of the mouth carrying member can be severed from the bottle.

0) US2011125111A – BOTTLE FOR PACKAGING LIQUID THAT IS TO BE DISPE...

30) Family number: 44321233 (US2011125111A)

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Title: BOTTLE FOR PACKAGING LIQUID THAT IS TO BE DISPENSED DROP BY DROP, WITH ANTIBACTERIAL PROTECTION

Priority: EP20090786089 20090731 FR20080004420 20080731 FR20090003771 20090731
WO2009IB06420 20090731 US20110055725 20110125 US20140528559 20141030

Family:

Publication number	Publication date	Application number	Application date
AR077614 AA	20110907	AR2010P102786	20100730
AU2009275602 AA	20100204	AU20090275602	20090731
AU2009275602 BB	20160512	AU20090275602	20090731
BRPI0916339 A2	20160216	BR2009PI16339	20090731
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CL2011000096 A1	20110701	CL20110000096	20110117
CL52040 B	20160219	CL20110000096	20110117
CN102112377 A	20110629	CN200980130622	20090731
CN102112377 B	20130724	CN200980130622	20090731
CO6341597 A2	20111121	CO20110008209	20110126
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DE602009027470 D1	20141211	DE200960027470T	20090731
DK2321191 T3	20150126	DK20090786089T	20090731
EA024363 B1	20160930	EA20110000285	20090731
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FR2934569 B1	20161125	FR20090003771	20090731
FR2934572 A1	20100205	FR20080004420	20080731
HK1158590 A1	20140321	HK20110112986	20111130
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HR20150080 T1	20150410	HR20150000080	20150122
IL210850 A0	20110428	IL20090210850	20090731
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IN00151MN2011 A	20110610	IN2011MN00151	20110127
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<u>US8894622 BB</u>	20141125	US20090055725	20090731	
<u>US9402765 BB</u>	20160802	US20140528559	20141030	
<u>VN16281 A1</u>	20170125	VN20110000469	20090731	
<u>WO10013131 A1</u>	20100204	WO2009IB06420	20090731	
<u>WO10013131 A8</u>	20100415	WO2009IB06420	20090731	
<u>ZA201100355 A</u>	20111026	ZA20110000355	20110113	

Probable Assignee: THEA LAB

Assignee(s):^(std): CHIBRET JEAN FREDERIC ; DEFEMME ALAIN ; FAURIE MICHEL ; LAB THEA ; LABORATOIRES THEA ; THEA LAB ; MERCIER FABRICE ; LABORATORIES THEA

Inventor(s):^(std): ALAIN DEFEMME ; CHIBRET JEAN FREDERIC ; CHIBRET JEAN FRUDURIC ; DEFEMME ALAIN ; FABRICE MERCIER ; FAURIE MICHEL ; JEAN FREDERIC CHIBRET ; MERCIER FABRICE ; MICHEL FAURIE

Inventor(s): MICHEL FAURIE JEAN FREDERIC CHIBRET ALAIN DEFEMME FABRICE MERCIER

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GOUDREAU GAGE DUBUC; ALESSANDRI; BISCHOF AND PARTNER RECHTSANWAELTE PARTNERSCHAFTSGESELLSCHAFT MBB; THIBON NORBERT; LEHMANN MARIA ISABEL; CABINET THIBON LITTAYE; REINHOLD COHN AND PARTNERS; DREW AND NAPIER LLC; MILLEN WHITE ZELANO BRANIGAN PC; CONG TY TNHH LE AND LE; THIBON LITTAYE ANNICK

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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): A61F A61F9/00 A61J1/05 A61M35/00 B65D B65D35/44 B65D47/06 B65D47/18 B65D81/28 B65D83/00 (Advanced/Invention);
A61F9/00 A61M35/00 B65D47/18 B65D81/28 (Advanced/Non-invention);
A61F9/00 B65D35/00 B65D47/00 B65D47/06 (Core/Invention);
A61F9/00 (Core/Non-invention);
A61F B65D (Subclass/Invention)

International class
(IPC 1-7): A61F9/00 A61J7/00 B65D47/18

CPC: A61F2250/0069 A61F9/0008 B65D47/18 B65D81/28

European class: A61F9/00B B65D47/18

US class: 1/1 222/420 222/420S 222/421 222/422 604/294 604/295 604/300 604/300P

[Classification Explorer](#)

Cited documents: WO07056131 A2, WO07033480 A1, WO06043295 A1, WO06000755 A2, WO05023665 A1, WO05023665, WO04069679 A1, WO0238464 A1, US8056766 BB, US6336571 BA, US5611464 A, US5515117 A, US5373972 A, US5310094 A, US5105993 A, US4708870 A, US2008177217 AA, US2008067194 AA, US2007231295 AA, US2007093765 AA, US2006180613 AA, US2005029300 AA, US2004074925 AA, US2002187176 AA, US2002187176, KR20070014199, KR20030063381, JP9276778 A2, JP9276778, JP9207959 A2, JP9169368 A2, JP9169368, JP8322911 A2, JP8322911, JP4312462 A2, JP2008503410 T2, JP2008503410, JP2007504107 T2, JP2005082234 A2, JP2005082234, JP2002019856 A2, JP2002019856, JP10278936 A2, JP10278936, JP10129759 A2, JP10129759, FR2678905 A1, EP0473892 A2, EP0425264 A1, CA2492255 AA,

Forward Citations: WO16156968, WO16156897, WO13168243, WO13075951, US9592934, US9579671, US9422100, US9238532, US9090384, US2016311588, US2013140225, US2012312840, RU168634, RU168297, KR101262161, GB2494304, FR2988015, EP3241781, EP2782844, EP2762238, DE102013001571, CN106163933, CN104114456, CN104114456, CN104097843, CN104097843, CN102602608, CN102107747,

Abstract:

Source: US2011125111A The present invention relates to a bottle for packaging a liquid to be distributed drop by drop comprising a reservoir the walls of which can be reversibly elastically deformed by letting air into the container, surmounted by a liquid dispensing head comprising a dropper nozzle protruding from the bottle and an anti-bacterial filter membrane, that is partially hydrophilic and partially hydrophobic, interposed across the path of the liquid and the air, at the base of the said nozzle. In the dispensing head, the proposal is to create the nozzle

by itself out of a material containing a bactericidal agent that has the effect of preventing any bacterial growth on the surface of the said nozzle on the outside of the antibacterial membrane. A porous core is advantageously positioned inside the duct through which liquid is expelled and air is admitted.

0) US4016996A – CONTAINER WITH SCREW CAP AND SEAL

31) Family number: 17977836 (US4016996A)

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Title: CONTAINER WITH SCREW CAP AND SEAL

Priority: DE19750020879U 19750701 DE19752529340 19750701 US19770757696 19770107
US19760698597 19760622 DE19757520879U 19750701

Family:

Publication number	Publication date	Application number	Application date
AR211543 A1	19780130	AR19760263772	19760628
AT360845 B	19810210	AT19760004526	19760622
AT452676 A	19800615	AT19760004526	19760622
AU197615456 A1	19780105	AU19760015456	19760630
AU501062 B2	19790607	AU19760015456	19760630
BE834193 A	19760202	BE19750160690	19751003
BE834193 A1	19760202	BE19750160690	19751003
BR7604256 A	19770405	BR19760004256	19760629
CA1051825 A1	19790403	CA19760255601	19760624
CH611850 A	19790629	CH19760007396	19760611
DE2529340 A1	19770127	DE19752529340	19750701
DE2529340 B2	19791213	DE19752529340	19750701
DE2529340 C3	19800828	DE19752529340	19750701
DE7520879 U	19790412	DE19750020879U	19750701
DK144268 B	19820201	DK19760002946	19760630
DK144268 C	19820705	DK19760002946	19760630
DK294676 A	19770102	DK19760002946	19760630
ES222043 U	19761101	ES19760222043U	19760701
ES222043 Y	19770301	ES19760222043U	19760701
FI63909 B	19830531	FI19760001795	19760621
FI63909 C	19830912	FI19760001795	19760621
FI761795 A	19770102	FI19760001795	19760621
FR2316141 A1	19770128	FR19750024974	19750811
FR2316141 B1	19810206	FR19750024974	19750811
FR2378689 A1	19780825	FR19780002176	19780126
FR2378689 B1	19800829	FR19780002176	19780126
GB1541702 A	19790307	GB19760025107	19760617
IE43482 B	19810311	IE19760001419	19760629
IE43482 L	19770101	IE19760001419	19760629
IL49787 A0	19760831	IL19760049787	19760614
IL49787 A1	19790131	IL19760049787	19760614
IT1103299 A	19851014	IT19760050210	19760630
JP1019283 C3	19801030	JP19760078845	19760701
JP1019287 C3	19801030	JP19760118430	19760930
JP52021989 A2	19770218	JP19760078845	19760701
JP52064378 A2	19770527	JP19760118430	19760930
JP55010463 B4	19800317	JP19760078845	19760701
JP55010464 B4	19800317	JP19760118430	19760930
NL181793 B	19870601	NL19750008901	19750725
NL181793 C	19871102	NL19750008901	19750725
NL7508901 A	19770104	NL19750008901	19750725

NO144338 B	19810504	NO19760002134	19760618	
NO144338 C	19810812	NO19760002134	19760618	
NO762134 A	19770104	NO19760002134	19760618	
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SE7607188 L	19770102	SE19760007188	19760623	
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US4253581 A	19810303	US19790003023	19790112	
ZA7603693 A	19770525	ZA19760003693	19760622	

Probable Assignee: OBRIST ALBERT AG

Assignee(s):^(std): CROWN OBRIST AG TE REINACH ZWITSERLAND ; OBRIST ALBERT AG ; OBRIST AG ALBERT ; OBRIST ALBERT ; OBRIST AG CROWN ; OBRIST AG A ; OBRIST A AG ; OBRIST A ; ALBERT OBRIST AG ; ALBERT OBRIST AG TE REINACH ZWITSERLAND

Assignee(s): ALBERT OBRIST REINACH BASEL SCHWEIZ AG ; ALBERT OBRIST AG REINACH BASEL SCHWEIZ ; AICHINGER DIETMAR

Inventor(s):^(std): A OBRIST ; AICHINGER D ; AICHINGER DIETMAR ; ALBER O ; ALBERT OBRIST ; ARUBERUTO OBURISUTO ; D AICHINGER ; DEITOMAARU AIHINGAA ; DIETMAR AICHINGER ; OBRIST A ; OBRIST ALBERT ; REINACH BASEL SCHWEIZ

Agent(s): REINHOLD COHN AND PARTNERS

International class
(IPC 8-9): [B65D41/04 B65D41/28](#) (Advanced/Invention) ;
[B65D41/02 B65D41/04](#) (Core/Invention)

International class
(IPC 1-7): [B65D39/00 B65D39/08 B65D41/02 B65D41/04 B65D41/28 B65D53/00 B65D53/02 B67B1/06 B67B3/20](#)

CPC: [Y10S215/01 B65D41/0414](#)

European class: [B65D41/04B1](#)

US class: [215/260 215/341 215/344 215/354 215/DIG.1](#)

[Classification Explorer](#)

Cited documents: US4016996 A, US3200981 A, US3038624 A, GB930866 A, FR1486721 A, DE2340647 A1, DE1107541 B, CH351515 A,

Forward Citations: WO8703560, WO11138062, WO09153154, US9738423, US8820553, US8342344, US7651004, US7434703, US7431877, US7390453, US7083058, US6991123, US6805252, US6527132, US6371319, US6325228, US6237791, US6126886, US6082569, US6062408, US6044995, US5891380, US5836464, US5638972, US5630522, US5586671, US5423444, US5100009, US5048730, US4925617, US4886947, US4872304, US4856667, US4836416, US4823967, US4811857, US4793506, US4712699, US4709824, US4708255, US4412409, US4392579, US4299350, US4253581, US4210251, US4200196, US2013193100, US2012273452, US2011139787, US2009179032, US2008017665, US2006255003, US2006070973, US2005184433, US2004149675, US2003116523, JP56095843, JP55017044, JP3501836, JP2011093541, JP2002053155, FR2447330, ES2048060, DE102010028522, AU634468, AU595278,

Abstract:

Source: US4016996A A container having an external screw thread is closed by a synthetic plastics stopper comprising an internally threaded cap with a seal part protruding from the cap top, this seal part having an outwardly protruding seal section which in use is bent back outwardly by the inner wall of the container neck. The screw thread on the container neck, the screw thread on the cap and the seal section are such in relation to one another that in applying the stopper the seal section contacts the container neck and is bent back thereby before the external screw thread on the container and the internal thread on the cap come into engagement with one another. The seal section preferably consists of permanently deformable material so that on unscrewing the stopper, the seal between the stopper and the container opening is broken before the threads come out of engagement.

32) Family number: 29441861 (US6565791B)

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Title: METHOD AND APPARATUS FOR TREATING THE INSIDE SURFACE OF PLASTIC BOTTLES IN A PLASMA ENHANCED PROCESS**Priority:** CH19970002289 19970930 WO1998IB01506 19980928

Family:	Publication number	Publication date	Application number	Application date
	<u>AU199891805 A1</u>	19990423	AU19980091805	19980928
	<u>AU747272 B2</u>	20020509	AU19980091805	19980928
	<u>BRPI9812701 A</u>	20000822	BR1998PI12701	19980928
	<u>CA2304613 AA</u>	20000328	CA19982304613	19980928
	<u>CN1196168 C</u>	20050406	CN19988011674	19980928
	<u>CN1280705 A</u>	20010117	CN19988011674	19980928
	<u>EP1019944 A1</u>	20000719	EP19980944145	19980928
	<u>JP2001518685 T2</u>	20011016	JP20000514303T	19980928
	<u>KR20010030823 A</u>	20010416	KR20007003444	19980928
	<u>NO20001654 A</u>	20000530	NO20000001654	20000330
	<u>NO20001654 A0</u>	20000330	NO20000001654	20000330
	<u>PL339616 A1</u>	20010102	PL19980339616	19980928
	<u>RU2000110166 A</u>	20020327	RU20000110166	19980928
	<u>RU2199792 C2</u>	20030227	RU20000110166	19980928
	<u>TW449623 B</u>	20010811	TW19980116101	19980928
	<u>US6565791 BA</u>	20030520	US20000509470	20000519
	<u>WO9917334 A1</u>	19990408	WO1998IB01506	19980928

Probable Assignee: TETRA LAVAL HOLDINGS AND FINANCE SA**Assignee(s):^(std):** TETRA LAVAL HOLDINGS AND AMP FIN ; TETRA LAVAL HOLDINGS AND FIN ; TETRA LAVAL HOLDINGS AND FINANCE ; TETRA LAVAL KHOLDING EHND FINA ; LAURENT JACQUES ; TETRA PAK LAVAL HOLDINGS AND FINANCES SA**Assignee(s):** TETRA LAVAL HOLDINGS AND FINANCE SOCIEDADE SUICA SA ; TETRA LAVAL HOLDINGS AND ; FINANCE SA ; TETRA LAVAL HOLDINGS AND FINANCE SA ; TETRA LAVAL KHOLDING EHND FINANS SA ; TETRA LAVAL HOLDINGS AND FINANCE S A SOCIEDADE SUI ; TETRA LAVAL KHOLDING EHND FINANS S A ; TETRA LAVAL' KHOLDING EHND FINANS S.A. ; TETRA LAVAL HOLDINGS AND FINANCE S A SOCIEDADE SUICA ; TETRA LAVAL HOLDINGS AND FINANCE S A**Inventor(s):^(std):** LORAN ZHAK ; LAURENT JACQUES ; LAURENT J**Inventor(s):** J LAURENT ; JACQUES LAURENT**Agent(s):** GRIFFITH HACK; FREEDMAN GORDON**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class
 (IPC 8-9): B29C37/00 B29C49/06 B29C49/12 B29C49/22 B29C49/42 B65D1/00 C23C14/28 C23C14/54 C23C16/04 C23C16/511 H01J37/32 H05H1/24 (Advanced/Invention);
B29C37/00 B29C49/06 B29C49/12 B29C49/22 B65D1/00 H01J37/32 H05H1/24 (Advanced/Non-Invention);
B29C49/42 B65D1/00 C23C16/04 C23C16/50 H01J37/32 H05H1/24 (Core/Invention);
B29C37/00 B29C49/06 B29C49/08 B29C49/22 (Core/Non-Invention)

International class
 (IPC 1-7): B29C35/08 B65D1/09 C23C14/28 C23C14/54 C23C16/04 C23C16/511 H01J37/32 H05B6/00 H05H1/24

CPC: B29C2049/129 B29C49/42 A61L2/14 A61L2202/23 B29C37/0025 B29C49/06 B29C49/12 B29C49/22 B29C2049/027 B29C2049/4294 B29K2995/0067 C23C16/045 C23C16/511 H01J37/32192 H01J37/32284

European class: A61L2/14 B29C49/42 C23C16/04D C23C16/511 H01J37/32H3B H01J37/32M10 H01J37/32M10F4 K61L202/230 L29C37/00C L29C49/02F2 L29C49/06 L29C49/12 L29C49/22 L29K995/00F16B T01J237/323B5D

US class: 264/129 264/455 264/524 425/174 425/174.4 425/404 425/529

[Classification Explorer](#)

Cited documents: US6198224 BA, US6117243 A, US5531060 A, US5521351 A, US5378510 A, US4265730 A, EP0773167 A1, DE4318086 A1, DE3632748 A1, DE19600223 A1, DE19502103 A1,

Forward Citations: WO17162509, WO17102280, WO16012885, WO16012884, WO16012883, WO12171661, WO12130197, WO12089196, WO12051975, WO11153993, WO10132584, WO10132584, WO09150384, WO09150384, WO09026869, WO07048912, WO04092443, WO04081254, WO04081253, WO04024577, WO03100129, WO03100128, WO03100127, WO03100126, WO03100125, WO03100124, WO03100121, WO03100121, WO03100119, WO03100117, WO03100116, WO03100115, WO03099688, WO03020872, WO03014412, WO03013738, WO03013738, WO02051620, WO0166818, WO0154164, WO0148788, WO0066804, US9764093, US9751646, US9688438, US9664626, US9662450, US9572526, US9554968, US9545360, US9458536, US9371585, US9355046, US9272095, US9169559, US9144932, US9056146, US8961688, US8950356, US8834954, US8680424, US8512796, US8020513, US8006641, US7985188, US7926446, US7744790, US7700039, US7699933, US7678430, US7670453, US7582845, US7579179, US7513953, US7481636, US7170027, US6958097, US6849126, US6617152, US6328805, US2014106021, US2013069285, US2010096393, US2010089009, US2009229521, US2009181185, US2008282980, US2007212254, US2007087131, US2006292323, US2005233077, US2004245667, US2004025785, RU2493962, KR101092119, JP4889073, JP4831591, JP3663174, JP2014507317, JP2012172208, JP2012031454, JP2005527080, JP2005526914, JP2005526911, JP2005526675, JP2003525745, JP2003512977, JP2003328131, JP2003267325, JP2002275635, ITRM20120334, FR2932395, FR2907036, FR2892425, FR2792854, EP2503023, EP2495350, EP2251453, EP2007175, EP1941074, EP1916315, EP1614770, EP1507887, EP1484160, EP1412101, EP1391535, EP1365043, EP1252647, EP1240659, EP1229068, EP1198611, DE10325229, DE10225609, DE10225607, DE10224934, DE10224934, DE10224547, DE10224395, DE10221461, DE10221461, DE102016105548, DE102015121773, DE102011104730, DE102011016448, DE102010055155, DE102010048960, DE102010023119, DE102010012501, DE102008016923, DE102007045216, DE102005040266, DE10138697, DE10138697, DE10010642, DE10010642, CN103866290, CN103442985, CN103442985, CN103320767, CN103320767,

Abstract:

Source: US6565791B The apparatus for treating the inside surface of a bottle (1) in a plasma enhanced process comprises a vacuum chamber (2), a microwave confinement (3) with a microwave generator (4), evacuation means and gas feed means (5). The microwave confinement (3) is substantially cylindrical and adapted to the shape of at least the body portion of the bottle (1) to be treated as closely as possible. The microwaves are coupled into the microwave confinement (3) from the bottom side of the bottle (1) and the microwave confinement is excited in a TM mode of resonance. The inventive apparatus is very compact and very simple. It can be integrated into a stretch-blow-moulding apparatus or into a filling apparatus. For upscaling, a plurality of one-bottle apparatuses is arranged in a row or in a matrix and all the one-bottle apparatuses are connected to a net of energy, vacuum and gas supply lines. Each of the one-bottle apparatuses may have its own vacuum chamber or a plurality of microwave confinements (3) may be arranged in one common vacuum chamber.

0) US4728006A – FLEXIBLE CONTAINER INCLUDING SELF–SEALING DISPE...

33) Family number: 28671555 (US4728006A)

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

Priority: CA19850480200 19850426 EP19850200589 19850417 US19840656397 19841001
US19840604782 19840427

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
DK187285 A0	19850426	DK19850001872	19850426
EG16970 A	19910830	EG19850000267	19850424
EP0160336 A2	19851106	EP19850200589	19850417
EP0160336 A3	19870415	EP19850200589	19850417
EP0160336 B1	19920304	EP19850200589	19850417
ES286370 U	19851116	ES19850286370U	19850426
ES286370 Y	19860601	ES19850286370U	19850426
ES286370 Y1	19860625	ES19850286370U	19850426
FI81761 B	19900831	FI19850001657	19850426
FI81761 C	19901210	FI19850001657	19850426
FI851657 A	19851028	FI19850001657	19850426
FI851657 A0	19850426	FI19850001657	19850426
FI851657 L	19851028	FI19850001657	19850426
GB2158049 A1	19851106	GB19850010233	19850422
GB2158049 B2	19871007	GB19850010233	19850422
GB8510233 A0	19850530	GB19850010233	19850422
GR851023 B	19850614	GR19850101023	19850426
HK57990 A	19900810	HK19900000579	19900802
IE57957 B	19930519	IE19850001074	19851126
IE851074 L	19851027	IE19850001074	19851126
JP61033927 A2	19860218	JP19850090763	19850426
KR930004461 Y1	19930716	KR19850004684U	19850424
MA20421 A1	19851231	MA19850020645	19850426
MX163063 A	19910812	MX19850205113	19850426
MX163063 B	19910812	MX19850205113	19850426
PH23706 A	19890927	PH19850032191	19850425
SG9090425 A	19900817	SG19900090425	19900620
US4728006 A	19880301	US19840656397	19841001

Probable Assignee: PROCTER AND GAMBLE

Assignee(s):^(std): PROCTER AND GAMBLE ; THE PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; PROCTER AND GAMBLE CO 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): DROBISHI JAMES L ; JAMES LEE DROBISH ; JIEEMUZU RII DOROBISHIYU ; LEO EDWARD TASKE ; REO EDOWAADO TASUKE ; TASKE LEO E ; TASKE LEO EDWARD ; DROBISH JAMES L ; DROBISH JAMES LEE

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

International class
(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 class
(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 class: B65D1/32 B65D23/00D B65D47/20E2

US class: 137/849 137/859 222/181 222/181.3 222/213 222/490 222/494

[Classification Explorer](#)

Cited documents: US666145 A, US591067 A, US4519530 A, US4420101 A, US4408702 A, US4397132 A, US4388735 A, US4356935 A, US4314658 A, US4252257 A, US4226342 A, US4222126 A, US4201491 A, US4183684 A, US4166553 A, US4163503 A, US4139124 A, US4133457 A, US4109836 A, US4096597 A, US4074944 A, US4008968 A, US3998360 A, US3981106 A, US3979163 A, US3957078 A, US3945060 A, US3754690 A, US3726436 A, US3674183 A, US3669323 A, US3445042 A, US3428223 A, US3405850 A, US3349972 A, US3342379 A, US3320972 A, US3258175 A, US3241726 A, US3226761 A, US3192894 A, US3067787 A, US3016172 A, US3012698 A, US2957501 A, US2942762 A, US2937795 A, US2936932 A, US2926692 A, US2887709 A, US2818089 A, US2802607 A, US2758755 A, US2743852 A, US2688979 A, US2682057 A, US2670757 A, US2643408 A, US2611515 A, US2594040 A, US2577780 A, US2513272 A, US2505441 A, US2441649 A, US2392085 A, US2362523 A, US2352642 A, US2234558 A, US2193517 A, US2175052 A, US2161230 A, US2092757 A, US1989715 A, US1989714 A, US1989201 A, US1989145 A, US1951544 A, US1859397 A, US1845918 A, US1825553 A, US1607993 A, US1242654 A, US1206661 A, US1122868 A, SU145824 T, GB764928 A, GB2098958 A1, GB1046518 A, FR996998 A, EP108636 A2, DE696571 A, DE2128875 A1, DE1486403 A1, CH357149 A,

Forward Citations: WO9944750, WO9908519, WO9906296, WO9858847, WO9838102, WO9708979, WO9405552, WO16057623, WO15175663, WO14064675, WO13138087, WO13133869, WO13088112, WO12058802, WO09023508, WO06138323, WO06081858, WO05116497, WO05110875, WO03007770, WO0211894, WO0206129, WO0172594, WO0108994, WO0104011, USRE39520, USRE37016, USD743261, USD738732, USD720622, USD719450, USD716147, USD671359, USD532637, USD509738, USD463216, USD452415, USD452116, USD450535, USD448976, USD448242, USD441292, USD438801, USD432747, USD429443, USD426464, US9789620, US9706752, US9642998, US9533129, US9516858, US9516857, US9375524, US9327882, US9265229, US9155283, US9079696, US9072876, US9066494, US8974744, US8863969, US8845577, US8827106, US8783519, US8739737, US8690018, US8365967, US8292120, US8286834, US8251110, US8215344, US8171887, US8156899, US8152400, US8147445, US8113247, US8087547, US8082956, US8082885, US8069986, US8038886, US7970495, US7954455, US7913650, US7874268, US7824545, US7798361, US7766057, US7739984, US7734381, US7729471, US7726521, US7708035, US7665419, US7661392, US7565881, US7527020, US7500582, US7316332, US7299952, US7261221, US7243676, US7204380, US7201284, US7197827, US7152763, US7147121, US7077296, US7048154, US7041246, US6957924, US6910607, US6840410, US6808090, US6805336, US6786363, US6783294, US6705492, US6673295, US6672487, US6631823, US6629624, US6616012, US6598757, US6585130, US6530504, US6457613, US6427874, US6422415, US6405901, US6343712, US6328543, US6293437, US6279783, US6273296, US6250503, US6230940, US6186374, US6176399, US6142750, US6131806, US6116457, US6112951, US6102245, US6095382, US6089419, US6089418, US6079594, US6065642, US6056142, US6050451, US6050445, US6045004, US6006960, US6003728, US5992668, US5989469, US5950878, US5931352, US5927567, US5927566, US5927549, US5894967, US5853109, US5842618, US5839614, US5819984, US5730336, US5680969, US5667107, US5632420, US5626262, US5531363, US5499748, US5499729, US5472122, US5460282, US5439143, US5409144, US5407087, US5390805, US5377877, US5373972, US5339995, US5318204, US5310094, US5307955, US5234138, US5213236, US5115950, US5033655, US5005737,

US4991745, US4969581, US4969580, US4951840, US4934570, US4842165,
 US4749108, US2015342833, US2015014369, US2013160716, US2012312702,
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 US2005255170, US2005250658, US2005211729, US2005205610, US2005124945,
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 US2004195253, US2004036195, US2003222238, US2003203010, US2003197019,
 US2003178443, US2003164559, US2003116573, US2003094467, JP7132979,
 JP63248662, JP5061059, JP4038960, JP3464164, JP3423636, JP3307892, JP3202084,
 JP2586038, JP2011058, JP2003525176, JP2003512982, JP11292162, JP11278560,
 JP11278505, GB2311061, GB2198418, FR2729925, EP2361844, EP2128038,
 EP1903860, EP1747393, EP1713698, EP1497192, EP1438143, EP1426303,
 EP1426303, EP1210275, EP1078863, EP1070476, EP1020233, EP0909544,
 EP0903301, EP0743259, EP0555623, EP0495435, EP0442379, EP0412390,
 EP0405472, EP0278125, EA2338, EA002338, DE202010007614, DE19654723,
 DE10358433, DE10358433, DE102012105652, DE102012105652, CZ299571,
 CN101999847, AU767845, AU758975, AU714916, AU689995, AU626444,
 AU2006259544,

Abstract:

Source: US4728006A 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.

34) Family number: 28220352 (US2002117417A)

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Title: PERSONAL IDENTIFICATION FOR IMPROVED HYGIENE

Priority: US19990434792 19991105 US20010928303 20010813 US20020060989 20020201
US20020060993 20020201 US20020076257 20020213 US20030638063 20030811

Family:	Publication number	Publication date	Application number	Application date
	<u>US2002117417 AA</u>	20020829	US20020060993	20020201
	<u>US2002117418 AA</u>	20020829	US20020076257	20020213
	<u>US2004045855 AA</u>	20040311	US20030638063	20030811
	<u>US2006049072 AA</u>	20060309	US20020060989	20020201
	<u>US6311840 BA</u>	20011106	US19990434792	19991105
	<u>US6412632 BA</u>	20020702	US20010928303	20010813
	<u>US6508361 BB</u>	20030121	US20020060993	20020201
	<u>US6834763 BB</u>	20041228	US20020076257	20020213

Probable Assignee: SHRADER ARTHUR J

Assignee(s):^(std): SHRADER ARTHUR J

Assignee(s): NAVY UNITED STATES OF AMERICAS AS REPRESENTED BY S ; NAVY UNITED STATES OF AMERICAS AS REPRESENTED... ; NAVY UNITED STATES OF AMERICAS REPRESENTED BY SECRETARY OF AS

Inventor(s):^(std): SHRADER ARTHUR J

Inventor(s): SHRADER ARTHUR

Agent(s): HAROLD LEVINE

International class
(IPC 8-9): B65D25/20 B65D51/24 B65D75/54 B65D85/00 G09F11/23 (Advanced/Invention);
B65D25/20 B65D51/24 B65D75/52 B65D85/00 G09F11/00 (Core/Invention)

International class
(IPC 1-7): B65D83/04 B65D85/00

CPC: Y02W30/807 G09F11/23 B65D25/20 B65D51/245 B65D75/54 B65D2203/00

European class: B65D25/20 B65D51/24F B65D75/54 G09F11/23 L65D203/00

US class: 116/306 116/309 206/459.1 206/459.5 206/534 215/230 220/705 229/103.1 229/204

[Classification Explorer](#)

Cited documents: US6868627 BB, US6244456 BA, US6129265 A, US6089180 A, US6053349 A, US5823346 A, US5492077 A, US5456378 A, US5358117 A, US5279422 A, US4920912 A, US4877119 A, US4858766 A, US4630733 A, US4405045 A, US4363419 A, US3996879 A, US3974916 A, US3960713 A, US3392468 A, US3288277 A, US2767680 A, US2685860 A,

Forward Citations: WO04084045, WO04084045, US9092999, US8426000, US8220629, US8096415, US8003182, US7905037, US7886909, US7878350, US7383650, US7252204, US7243795, US7083103, US6651676, US2014138268, US2013220840, US2012279888, US2012067758, US2011303572, US2011224060, US2010133282, US2010116705, US2009294461, US2009094870, US2009084701, US2009029116, US2009029085, US2008237177, US2008217198, US2008128381, US2006108257, US2005218026, US2005178677, US2004222303, US2002139292, ITTO20100605, CN105151508,

Abstract:

Source: US2002117417A A personal identification method and system for improving personal hygiene in which provision is made for identifying a beverage, food product or the like, with a particular person so that another person does not inadvertently access the identified item unintentionally. Identifying indicia such as numbers or alphabetical letters are selectable and conditioned by the user to be prominently displayed on the item so as to identify it with the individual involved. For necked beverage containers, in one embodiment, a re-usable snap-on display device, or assembly, is configured to snap onto the neck of the container; in another embodiment, the existing conventional cap-attaching ring is modified to include alpha-numeric indicia and/or to receive a cooperating indicia-indicating display element. For beverage cans, a wand1-like element portraying selectable

alpha-numeric indicia is attached to the conventional snap ring opener; and for boxed beverages, a plurality of selectable identifying apertures are provided so that the user can personally distinguish his or her beverage from those of others.

Title: WINE PROTECTOR DEVICE**Priority:** AU20040907174 20041216 AU20050316192 20051212 WO2005AU01875 20051212**Family:**

Publication number	Publication date	Application number	Application date
AT483647 E	20101015	AT20050815733T	20051212
AU2005316192 AA	20060622	AU20050316192	20051212
AU2005316192 BB	20080306	AU20050316192	20051212
DE602005024043 D1	20101118	DE200560024043T	20051212
DK1824753 T3	20110131	DK20050815733T	20051212
EP1824753 A1	20070829	EP20050815733	20051212
EP1824753 A4	20090513	EP20050815733	20051212
EP1824753 B1	20101006	EP20050815733	20051212
ES2353670 T3	20110304	ES20050815733T	20051212
HK1107551 A1	20110415	HK20070113039	20071129
HK1107551 A3	20080411	HK20070113039	20071129
PT1824753 T	20110113	PT20050815733T	20051212
US2008110847 AA	20080515	US20050574264	20051212
US8365931 BB	20130205	US20050574264	20051212
WO06063389 A1	20060622	WO2005AU01875	20051212

Probable Assignee: CREATED BY BRAINWAVE PTY LTD**Assignee(s):**^(std): CREATED BY BRAINWAVE PTY LTD ; CREATED BY SBRAINWAVES PTY LTD ; MCKENZIE MALCOLM ; REES BARRY MAXWELL**Inventor(s):**^(std): MCKENZIE MALCOLM ; REES BARRY MAXWELL**Inventor(s):** BARRY MAXWELL REES ; MALCOLM MCKENZIE**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; HYLTNER JAN OLOF; CARLSON GASKEY AND OLDS PC**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**International class**
(IPC 8-9): [B65D39/02](#) [B65D81/24](#) (Advanced/Invention);
[B65B25/06](#) (Advanced/Non-invention);
[B65D39/00](#) (Core/Invention);
[B65D](#) (Subclass/Invention)**CPC:** [B65D81/245](#)**European class:** [B65D81/24B](#)**US class:** [215/231](#) [215/264](#) [220/578](#) [220/579](#) [426/398](#)[Classification Explorer](#)**Cited documents:** USD397275 S1, US5415317 A, US4723674 A, US4312459 A, US3987941 A, US3357591 A, US3049261 A, US2605009 A, US2003102311 AA, GB2187704 A1, GB1029537 A, FR2638432 A1, DE397275 A,**Forward Citations:** WO15179885, WO15010050, WO12030283, WO10006360, US9482215, US9382106, US9352883, US2015291322, US2014103042, US2012024873, US2011185922, US2011114592, KR100989177, JP2013144557, EP2303713, AU2009270323,

Abstract:

Source: US2008110847A The specification discloses a device (10) insertable into a wine bottle (12) after opening, the device (10) being intended to float on the surface (21) of wine remaining in the bottle (12) and minimize deterioration of the remaining wine, said device (10) including a core structure (11) having a thin spring plate (11 a) capable of being deformed when the device (10) is inserted into the bottle (12) and capable of recovering its shape once inserted into the bottle (12), the core structure (11) further having at least one floatation means (11 b) and said device (10) including a liquid impervious outer sheath (18) having upper and lower walls (14, 15) sealed to one another to retain the core structure (11) therein, the outer sheath (18) being of a material that is non reactive with wine and including a flexible outer peripheral edge zone (42) with cuts or the like (49) formed therein, the outer peripheral edge zone (42) being adapted, in use, to contact the internal surfaces of the wine bottle (12) while floating on wine remaining in the bottle (12).

0) US2013340482A – PLUNGER AND PARISON MOLD ASSEMBLY FOR A NARROW–...

36) Family number: 55405923 (US2013340482A)

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Title: PLUNGER AND PARISON MOLD ASSEMBLY FOR A NARROW–NECK
PRESS–AND–BLOW WINE BOTTLE

Priority: EP20130729827 20130514 US20120530499 20120622 WO2013US40852 20130514

Family:

Publication number	Publication date	Application number	Application date
AR091511 AA	20150211	AR2013P102179	20130619
AU2013277720 AA	20131227	AU20130277720	20130514
AU2013277720 BB	20160310	AU20130277720	20130514
CA2861168 AA	20140714	CA20132861168	20130514
CL2014002350 A1	20150102	CL20140002350	20140905
CN104395249 A	20150304	CN201380006233	20130514
CN104395249 B	20170301	CN201380006233	20130514
CO7101210 A2	20141031	CO20140157545	20140721
DE602013009160 D1	20160818	DE201360009160T	20130514
EP2864258 A1	20150429	EP20130729827	20130514
EP2864258 B1	20160706	EP20130729827	20130514
ES2595441 T3	20161230	ES20130729827T	20130514
ID201602590 A	20160408	ID2014P0006680	20130514
MX2014011812 A1	20141205	MX20140011812	20130514
MX342615 B	20161006	MX20140011812	20130514
NZ627768 A	20150626	NZ20130627768	20130514
PE01222015 A1	20150206	PE20140002382	20130514
PH2014501980 A	20141124	PH20140501980	20140905
PL2864258 T3	20170228	PL20130729827T	20130514
PT2864258 T	20160729	PT20130729827T	20130514
SG11201407720Q A1	20141230	SG20141107720	20130514
TH146828 A	20160304	TH20141004795	20130514
TR201613262 T4	20161121	TR20160013262T	20130514
TW201410628 A	20140316	TW20130118161	20130523
US2013340482 AA	20131226	US20120530499	20120622
US8701444 BB	20140422	US20120530499	20120622
WO13191818 A1	20131227	WO2013US40852	20130514
ZA201405210 A	20160831	ZA20140005210	20130514

Probable Assignee: OWENS BROCKWAY GLASS CONTAINER

Assignee(s):^(std): BAILEY VINCENT J ; CRESSWELL PHYLLIS A ; GRANT EDWARD A ; NEWSOM DANIEL L ; OWENS BROCKWAY GLASS CONTAINER INC ; OWENS BROCKWAY GLASS CONTAINER ; OWENS BROCKWAY GLASS CONTAINER INC

Assignee(s): OWENS BROCKWAY GLASS CONTAINER INC PERRYSBURG ; OWENS BROCKWAY GLASS CONTAINER INCONE MICHAEL OWENS WAYPERRYSBURGOH43551US

Inventor(s):^(std): BAILEY VINCENT ; BAILEY VINCENT J ; CRESSWELL PHYLLIS ; CRESSWELL PHYLLIS A ; DANIEL L NEWSOM ; EDWARD A GRANT ; GRANT EDWARD ; GRANT EDWARD A ; NEWSOM DANIEL ; NEWSOM DANIEL L ; PHYLLIS A CRESSWELL ; VINCENT J BAILEY

Inventor(s): NEWSOM DANIEL L OAK HARBOR ; NEWSOM DANIEL LUS ; GRANT EDWARD A NORTHWOOD ; GRANT EDWARD AUS ; CRESSWELL PHYLLIS A PERRYSBURG ; CRESSWELL PHYLLIS AUS ; BAILEY VINCENT J PERRYSBURG ; BAILEY VINCENT JUS

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; JOHANSSON AND LANGLOIS LTDA; JUAN PABLO CADENA SARMIENTO; BLUMBACH ZINNGREBE PATENT U RECHTSANWAELTE; BLUMBACH ZINNGREBE; CARVAJAL Y ISABEL; HALISE BETUEL ATABAY VARLIK; SMITH SUSAN L

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

International class B65D1/02 C03B C03B11/06 C03B11/10 C03B9/193 C03B9/325
 (IPC 8-9): C03B9/347 (Advanced/Invention);
C03B9/38 (Advanced/Non-invention);
C03B9/193 (Core/Invention)

CPC: C03B9/1932 B65D1/0253

US class: 65/305 65/307 65/362
[Classification Explorer](#)

Cited documents: WO12120673 A1, US6286339 BA, US6079226 A, US5411564 A, US5120341 A, US4836839 A, US4777030 A, US4748014 A, US4586944 A, US4584181 A, US4529576 A, US4446120 A, US4442082 A, US3846103 A, US2024748 A, JP56125223 A2, JP4861536 B1, EP0139339 A1, CN1496963,

Abstract:

Source: US2013340482A A parison mold assembly for a press-and-blow glassware forming machine includes a neck ring for molding a finish portion of a parison, a parison mold for molding a body portion of the parison, and a plunger for insertion through the neck ring into the parison mold for pressing a hot glass gob against inner surfaces of the neck ring and the parison mold. The plunger has an outer surface of revolution around a central axis, including a first portion disposed within the neck ring when the plunger is fully inserted through the neck ring into the parison mold, a second portion spaced from the first portion, and a transition third portion extending between the first and second portions.

37) Family number: 17756069 (US6276549B)

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Title: Modular container that can be interconnected, for multiple uses

Priority: AR19970000488U 19970207 AR1997M100488U 19970207 CA19982228656 19980203

Family:

Publication number	Publication date	Application number	Application date
AR005745 A4	19990714	AR1997M100488U	19970207
AU199852985 A1	19980820	AU19980052985	19980206
BRMU7800334 U	19990406	BR1998MU00334U	19980204
CA2228656 AA	19980807	CA19982228656	19980203
CL1998000240 U1	19981014	CL19980000240U	19980130
EP0857664 A1	19980812	EP19980500020	19980129
JP11001233 A2	19990106	JP19980025390	19980206
US6276549 BA	20010821	US19980009327	19980120

Probable Assignee: FASCIO SILVA MIRTA LILIANA

Assignee(s):^(std): FASCIO SILVA MIRTA LILIANA ; LUIS ORLANDO DE JESUS PITTAU ; PITTAU LUIS ORLANDO DE JESUS ; PITTAU DE JESUS LUIS ORLANDO ; MIRTA MABEL FASCI ; PITTAU LUIS ORLAND DE JESUS ; MILTA MAVELL FASUSHI ; FASCI MIRTA MABEL

Assignee(s): FASCI MIRTA MABEL Y PITTAU LUIS ORLAND DE JESUS

Inventor(s):^(std): FASCI MIRTA MABEL ; LUIS ORLANDO DE JESUS PITTAU ; MILTA MAVELL FASUSHI ; PITTAU DE JESUS LUIS ORLANDO ; PITTAU LUIS ORLANDO DE JESUS ; PITTAU LUIS ORLAND DE JESUS

Inventor(s): MIRTA MABEL FASCI

Agent(s): RIDOUT AND MAYBEE LLP; BARROS

Designated states: DE ES FR GB IT

International class
(IPC 8-9): [A63H33/04](#) [B09B3/00](#) [B65D1/02](#) [B65D1/04](#) [B65D21/02](#) [B65D21/028](#) [B65D23/08](#) [B65D81/36](#) (Advanced/Invention); [B65D1/04](#) [B65D21/02](#) [B65D81/00](#) (Core/Invention)

International class
(IPC 1-7): [A63H33/08](#) [B09B3/00](#) [B65D1/02](#) [B65D1/04](#) [B65D1/06](#) [B65D1/40](#) [B65D21/02](#) [B65D21/028](#) [B65D21/032](#) [B65D23/00](#) [B65D81/36](#) [E04B2/08](#) [E04C1/00](#)

CPC: [B65D21/0202](#) [B65D81/361](#)

European class: [B65D21/02B1](#) [B65D81/36B](#)

US class: [220/23.4](#) [220/23.6](#)

[Classification Explorer](#)

Cited documents: WO9509112 A1, WO9402368 A1, US4691828 A, US4624383 A, US3862683 A, US3763980 A, US3683549 A, US3635350 A, US3554384 A, US3374917 A, US3369658 A, US3194426 A, NL7108405 A, GB963494 A, GB890926 A, FR2610900 A1, FR2249548 A5, EP0698557 A1, EP0677455 A1, DE8013379 U, DE2115693 A1,

Forward Citations: WO16189359, WO16165038, WO16097668, WO15056183, WO13181266, WO13181266, WO11020128, WO10145700, WO09071340, WO09071340, WO08151198, WO08020193, WO08020193, WO07112598, WO06084453, WO05110874, WO05028321, WO03055756, WO0151386, USD794467, USD794466, USD713975, USD694643, USD586225, USD571661, USD472150, US9656782, US9346585, US9290300, US9145249, US8919067, US8887465, US8783482, US8764235, US8662328, US8544649, US8403144, US8393485, US8348077, US8316610, US8235214, US8207621, US8201699, US8087524, US8065857, US8047392, US7938256, US7699171, US7644828, US7520399, US7481316, US7175498, US6932228, US6857530, US6588612, US2014061086, US2014027336, US2013213927, US2012315411, US2012308357, US2012292315, US2012031869, US2011100856, US2011090693, US2011017629, US2010308043, US2010307095, US2010206759, US2010206752, US2010199609, US2010170897, US2010072095, US2010025409, US2009266782, US2009255893, US2009090647, US2009071955, US2009045157, US2008217200, US2008202966, US2008023429, US2008010949, US2008000867, US2007262045,

US2007108232, US2007023429, US2006261063, US2006260971, US2006255000, US2006096942, US2005098526, US2004116037, US2004020890, US2003221987, US2003173360, JP6220538, JP4383412, JP2014193737, JP2006248595, JP2005028321, GB2441378, GB2441378, EP2007638, EP2007638, EP1740473, EP1740473, EP1675782, EP0541098, DE102016102062, DE102016102061, DE102009025912, CN105416779, CN104411593,

Abstract:

Source: US6276549B Modular containers that can be interconnected, for multiple uses of the type that, forming a bottle or similar thing, of structure and materials usually developed for their disposal, essentially includes a bottom and lateral walls finished in a top wall. This top wall is prolonged in a neck delimiting an access mouth to an interior or the container that can be shut by means of a cover that is removable. The lateral walls, as do those of the bottom and top, possess means of lateral and top interconnection with other containers of similar characteristics, including compatible recesses and salients and of reciprocal fit through initial, but not continuous pressure.

38) Family number: 50014061 (US2011289971A)

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Title: POST-MANUFACTURE GLASS CONTAINER THERMAL STRENGTHENING METHOD

Priority: US20100348043P 20100525 US20110114628 20110524 US20110114688 20110524
 US20110114744 20110524 US20110114649 20110524 US20110114668 20110524
 US20110114802 20110524 US20110114779 20110524 US20110114765 20110524
 WO2011US37875 20110525 WO2011US37876 20110525 WO2011US37877 20110525
 WO2011US37906 20110525 WO2011US37907 20110525 WO2011US37908 20110525
 WO2011US37909 20110525 WO2011US37911 20110525

Family:

Publication number	Publication date	Application number	Application date
EP2576454 A2	20130410	EP20110787310	20110525
EP2576454 A4	20171101	EP20110787310	20110525
EP2576455 A2	20130410	EP20110787311	20110525
EP2576456 A2	20130410	EP20110787312	20110525
EP2576457 A2	20130410	EP20110787325	20110525
EP2576458 A2	20130410	EP20110787326	20110525
EP2576459 A2	20130410	EP20110787327	20110525
EP2576459 A4	20171101	EP20110787327	20110525
EP2576460 A2	20130410	EP20110787328	20110525
EP2576461 A2	20130410	EP20110787329	20110525
JP2013526476 T2	20130624	JP20130512194T	20110525
JP2013526478 T2	20130624	JP20130512206T	20110525
JP2013526479 T2	20130624	JP20130512207T	20110525
JP2013528150 T2	20130708	JP20130512195T	20110525
JP2013528151 T2	20130708	JP20130512196T	20110525
JP2013528152 T2	20130708	JP20130512205T	20110525
JP2013530119 T2	20130725	JP20130512203T	20110525
JP2013530120 T2	20130725	JP20130512204T	20110525
JP5714701 B2	20150507	JP20130512207T	20110525
JP5778262 B2	20150916	JP20130512194T	20110525
JP5787989 B2	20150930	JP20130512206T	20110525
JP5802265 B2	20151028	JP20130512203T	20110525
JP5802266 B2	20151028	JP20130512205T	20110525
JP5898181 B2	20160406	JP20130512195T	20110525
JP5898182 B2	20160406	JP20130512196T	20110525
JP5898183 B2	20160406	JP20130512204T	20110525
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US2011289972 AA	20111201	US20110114802	20110524
US2011289973 AA	20111201	US20110114779	20110524
US2011289974 AA	20111201	US20110114688	20110524
US2011289975 AA	20111201	US20110114744	20110524
US2011289976 AA	20111201	US20110114765	20110524
US2011289977 AA	20111201	US20110114649	20110524
US2011289978 AA	20111201	US20110114668	20110524
US8650908 BB	20140218	US20110114802	20110524
US8656741 BB	20140225	US20110114765	20110524
US8656742 BB	20140225	US20110114779	20110524
US8833107 BB	20140916	US20110114649	20110524
US8839644 BB	20140923	US20110114628	20110524

US8857218 BB	20141014	US20110114688	20110524	
US8893528 BB	20141125	US20110114668	20110524	
US9133051 BB	20150915	US20110114744	20110524	
WO11150039 A2	20111201	WO2011US37875	20110525	
WO11150039 A3	20120405	WO2011US37875	20110525	
WO11150040 A2	20111201	WO2011US37876	20110525	
WO11150040 A3	20120301	WO2011US37876	20110525	
WO11150041 A2	20111201	WO2011US37877	20110525	
WO11150041 A3	20120301	WO2011US37877	20110525	
WO11150062 A2	20111201	WO2011US37906	20110525	
WO11150062 A3	20120412	WO2011US37906	20110525	
WO11150063 A2	20111201	WO2011US37907	20110525	
WO11150063 A3	20120223	WO2011US37907	20110525	
WO11150064 A2	20111201	WO2011US37908	20110525	
WO11150064 A3	20120308	WO2011US37908	20110525	
WO11150065 A2	20111201	WO2011US37909	20110525	
WO11150065 A3	20120308	WO2011US37909	20110525	
WO11150066 A2	20111201	WO2011US37911	20110525	
WO11150066 A3	20120308	WO2011US37911	20110525	

Probable Assignee: EMHART GLASS SA

Assignee(s):^(std): LANKEU NGANKEU PIERRE S ; STARGARDTER PAUL ; EMHART GLASS SA ; KAMMONEN JARMO ; RINGUETTE TIMOTHY A ; LOCKHART ROBERT J ; PINKERTON STEVEN J ; HYRE MATTHEW R ; BRATHON KENNETH L ; BRATTON KENNETH L ; BROWN SREVEN J ; BROWN STEVEN J

Assignee(s): EMHART GLASS S A

Inventor(s):^(std): BRATHON KENNETH L ; HYRE MATTHEW R ; KAMMONEN JARMO ; LOCKHART ROBERT J ; PINKERTON STEVEN J ; RINGUETTE TIMOTHY A ; STARGARDTER PAUL ; LANKEU NGANKEU PIERRE S ; BROWN STEVEN J ; BROWN SREVEN J ; BRATTON KENNETH L

Agent(s): WARREN ANTHONY ROBERT; ITO TAKAMI; HOSHINO OSAMU; ONO SHINJIRO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; REINHART BOERNER VAN DEUREN SC; MILLER LESLIE S 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 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 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

International class
(IPC 8-9): [B65D1/00](#) [C03B27/00](#) [C03B27/012](#) [C03B27/04](#) [C03B27/06](#) [C03B35/04](#) [C03B9/00](#) [C03B9/36](#) [C03B9/38](#) (Advanced/Invention)

CPC: [C03B27/065](#) [C03B27/062](#) [C03B27/06](#)

European class: [C03B27/06](#) [C03B27/06A](#) [C03B27/06B](#)

US class: [1/1](#) [65/104](#) [65/114](#) [65/114P](#) [65/114S](#) [65/115](#) [65/115P](#) [65/171](#) [65/171P](#) [65/267](#) [65/348](#) [65/349](#) [65/349P](#) [65/349S](#) [65/351](#) [65/351P](#) [65/69](#)

[Classification Explorer](#)

Cited documents: WO10029940 A1, WO06048775 A1, WO0251758, WO02051758 A2, US8656742 BB, US8656741 BB, US8650908 BB, US8127569 BB, US8117870 BB, US7805962 BB, US7779649 BB, US7694532 BA, US7694532, US7487650 BB, US6865910 BB, US6857292 BB, US6857291 BB, US6854292 BB, US6848900 BB, US6823696 BB, US6813905 BB, US6810690 BB, US6807829 BB, US6807827 BB, US6807826 BB, US6782719 BB, US6776010 BB, US6776009 BB, US6766665 BB, US6766664 BB, US6705121 BB, US6270595 BA, US6076654 A, US4785147 A, US4735645 A, US4702760 A, US4553998 A, US4548635 A, US4508557 A, US4507136 A, US4481025 A, US4468010 A, US4375997 A, US4371387 A, US4325725 A, US4067711 A, US4021218 A, US3914152 A, US3809544 A, US3764284 A, US3754885 A, US3652253

A, US3608766 A, US3403016 A, US2613480 A, US2563130 A, US2561529 A, US2492216 A, US2390910 A, US2377536 A, US2377536, US2375944 A, US2375944, US2365138 A, US2345808 A, US2309290 A, US2302078 A, US2290763 A, US2275155 A, US2269060 A, US2269060, US2254227 A, US2180737 A, US2180737, US2066283 A, US2011289978 AA, US2011289976 AA, US2011289975 AA, US2011289974 AA, US2011289973 AA, US2011289972 AA, US2011289971 AA, US2011154862 AA, US2011067449 AA, US2010147028 AA, US2009060710 AA, US2008307831 AA, US2008134724 AA, US2006016220 AA, US2006016220, US20060016220, US2004232135 AA, US2004221615 AA, US2004050661 AA, US2003108638 AA, US2003101767 AA, US2003101755 AA, US1670909 A, US07694532, US02377536, US02375944, US02269060, US02180737, US0016220, JPS60118632 A2, JPS5864248, JPS54102322 A2, JPS51134089 A2, JPS51134086 A2, JPS51122981 A2, JP7002443 U, JP7002443 U, JP60118632 A2, JP60118632, JP58064248 A2, JP54102322 A2, JP54102322, JP5122981 A2, JP51134089 A2, JP51134086 U1, JP51134086 U, JP51134086 U, JP51134086 A2, JP51122981 A2, JP51122981, JP4808330 B1, JP4808330 B4, JP4808330 B1, JP4515263 Y1, JP45015263 Y1, JP45015263 Y1, JP419400 A2, JP4019400 A2, JP4019400, JP3285836 A2, JP3285836, JP200962986, JP2009062986 A2, JP2009062986, JP2003221243 A2, JP2003221243, JP2003201129 A2, JP2003201129, JP1992019400, JP1985118632, JP1979102322, JP1976134086, JP1976122981, JP1970015263, JP1261240 A2, JP0702443 U, JP0419400, GB1144911 A, FR1095200 A, EP0780343 A1, EP0761614 A1, EP00780343, DE803926 A, DE3616375 A1, CH337621 A,

Forward Citations: WO17137939, US9802853, US9783448, US9776905, US9718720, US9663393, US9499434, US9296638, US8893528, US8839644, US8833107, US8650908, US2016107921, US2013283729, US2011289978, US2011289977, US2011289971, US2010075035, US2009235691, RU2624083, EP3009410,

Abstract:

Source: US2011289971A A method of manufacturing of strengthened glass containers, and more particularly a method of thermally strengthening glass containers in a glass container manufacturing line at a location intermediate the hot end and the cold end. Glass containers formed at an I. S. machine are conveyed through a special tempering Lehr that heats them uniformly to a high temperature that is short of temperatures at which they may become deformed. Subsequently, the glass containers are subjected to a unique rapid thermal strengthening cooling process in which the outer and inner surfaces including all areas of the glass containers are simultaneously cooled to a temperature below the Strain Point of the glass used in the glass containers.

0) US4620639A – SYNTHETIC RESIN THIN-WALLED BOTTLE

39) Family number: 4888965 (US4620639A)

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Title: SYNTHETIC RESIN THIN-WALLED BOTTLE

Priority: CA19790339303 19791106 CA19830429480 19830601 CH19790009894 19791105
 JP19780137419 19781107 CA19830429481 19830601 JP19780153313 19781211
 US19840677333 19841204 US19820343860 19820129 US19790089537 19791029
 JP19860003012 19860110 JP19860182521 19860801 JP19860314127 19861225

Family:

Publication number	Publication date	Application number	Application date
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<u>AU520221 B2</u>	19820121	AU19790052434	19791102
<u>CA1153323 A1</u>	19830906	CA19790339303	19791106
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<u>DE2944160 A1</u>	19800508	DE19792944160	19791102
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JP1476202 C3	19890118	JP19780153313	19781211
JP1488419 C3	19890323	JP19780137419	19781107
JP1488420 C3	19890323	JP19780145689	19781124
JP1488421 C3	19890323	JP19780145690	19781124
JP1488422 C3	19890323	JP19780158253	19781218
JP1521372 C3	19891012	JP19780149871	19781204
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JP1622330 C3	19911025	JP19860314127	19861225
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Probable Assignee: YOSHINO KOGYOSHO CO LTD

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Assignee(s): YOSHINO KOGYOSHO CO LTD TE TOKIO ; YOSHINO YATARO ; YOSHINO KOGYOSHO CO

Inventor(s):^(std): YOSHINO YATARO ; YOSHINO YATAROU ; YOSHINO Y ; YATARO YOSHINO

Inventor(s): Y YOSHINO

Agent(s): FB RICE AND CO; FETHERSTONHAUGH AND CO

International class
(IPC 8-9): [B29B11/08](#) [B29C49/00](#) [B29C49/06](#) [B29C49/08](#) [B29C49/12](#) [B29C49/48](#) [B29C49/64](#) [B29C65/00](#) [B65D1/02](#) [B65D1/46](#) [B65D23/00](#) (Advanced/Invention); [B29C49/00](#) [B29C49/06](#) [B29C49/64](#) (Advanced/Non-invention); [B29B11/00](#) [B29C49/00](#) [B29C49/06](#) [B29C49/08](#) [B29C49/48](#) [B29C49/64](#) [B29C65/00](#) [B65D1/02](#) [B65D1/40](#) [B65D23/00](#) (Core/Invention); [B29C49/06](#) (Core/Non-invention)

International class
(IPC 1-7): [B29C17/07](#) [B29C49/06](#) [B29C49/08](#) [B29C49/10](#) [B29C49/48](#) [B29C49/64](#) [B29C65/00](#) [B29D23/00](#) [B29D23/03](#) [B29F1/00](#) [B32B1/08](#) [B65D1/02](#)

CPC: [B29B2911/1434](#) [B29B2911/1442](#) [B29B2911/141](#) [B29B2911/14486](#) [B65D1/0284](#) [B65D2501/0036](#) [Y10T428/1397](#) [B29B2911/1433](#) [B29B2911/14331](#) [B29B2911/14336](#) [B29B2911/14337](#) [B29B2911/14344](#) [B29B2911/14345](#) [B29B2911/1408](#) [B29B2911/14086](#) [B29B2911/14113](#) [B29B2911/14466](#) [B29C49/06](#) [B29B2911/14033](#) [B29B2911/1404](#) [B29B2911/14332](#) [B29C49/0078](#) [B29B2911/1402](#) [B29B2911/14026](#) [B29B2911/14326](#) [B29B2911/14333](#) [B29B2911/1444](#) [B65D1/0276](#)

European class: [B29C49/00G2](#) [B65D1/02D2](#) [B65D1/02D2C](#) [B65D1/02D2E](#) [L29B911/14B2B](#) [L29B911/14B2D](#) [L29B911/14B2F](#) [L29B911/14B2H](#) [L29B911/14B4F](#) [L29B911/14B4F2](#) [L29B911/14B4H2](#) [L29B911/14B4L2](#) [L29B911/14D10D10](#) [L29B911/14D10D4](#) [L29B911/14D10D4D2](#) [L29B911/14D10D4F](#) [L29B911/14D2](#) [L29B911/14D4](#) [L29C49/06](#) [L65D501/02Y1C](#)

US class: [215/1C](#) [215/371](#) [215/373](#) [215/375](#) [215/382](#) [220/606](#) [220/608](#) [220/609](#) [220/70](#) [264/532](#) [264/535](#) [264/537](#) [428/36.92](#) [428/542.8](#)

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Forward Citations: WO9961325, WO9939895, WO9836891, WO9804464, WO9722527, WO9624482, WO9525041, WO9503977, WO9306018, WO8805404, WO17103467, WO16059135, WO11056176, WO02090213, WO0035759, USRE36639, USRE35140, USD682032, USD682031, USD664395, USD664394, USD451029, US9802730, US9764873, US9751679, US9707711, US9694930, US9650170, US9624018, US9617029, US9598201, US9580206, US9522749, US9463900, US9422076, US9415891, US9394072, US9387971, US9346212, US9302805, US9211968, US9150320, US9145223, US9133006, US9090363, US9085387, US9027770, US9022776, US8962114, US8925750, US8919587, US8839972, US8833579, US8794462, US8747727, US8728601, US8726616, US8720163, US8691140, US8671653,

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 FR3045571, FR2724588, FR2717443, FR2576283, EP3009246, EP1140637,
 EP1088763, EP1029793, EP1009615, EP0673840, EP0371487, EP0277557,
 EP0199576, EP0140792, EP0074246, DE3720528, DE3223258, DE19942109,
 DE19942109, DE19942109, DE19515516, DE19515516, AU587673, AT510506,

Abstract:

Source: US4620639A This invention provides a synthetic resin thin-walled bottle, a tubular intermediate therefor and a method of producing a thin-walled bottle. The thin-walled bottle has ribs at least at its bottom portion, and the bottle bottom is raised up frusto-conically or has an undulatory shape. The tubular intermediate is first formed with ribs which become thin-walled protuberant ribs after blow molding. The thin-walled bottle is produced by blow-molding the ribbed tubular intermediate.

40) Family number: 30939038 (WO04078612A1)

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Title: TAMPER EVIDENT CLOSURE FOR BOTTLES, PARTICULARLY FOR BOTTLES CONTAINING VALUABLE DRINKS

Priority: CO20050102643 20051007 EP20030712661 20030307 WO2003IT00141 20030307
KR20050016639 20050906 KR20057016639 20050906 WO2003IT00141 20050906

Family:	Publication number	Publication date	Application number	Application date
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	BRPI0318168 A	20060221	BR2003PI18168	20030307
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	KR100737644 B1	20070709	KR20057016639	20030307
	KR20050106501 A	20051109	KR20057016639	20030307
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	UA79550 C2	20070625	UA20050009431	20030307
	WO04078612 A1	20040916	WO2003IT00141	20030307

Probable Assignee: GUALA CLOSURES SPA**Assignee(s):^(std):** BATTEGAZZORE PIERO ; GUALA CLOSURES SPA**Assignee(s):** GUALA CLOSURES S P A**Inventor(s):^(std):** BATTEGAZZORE PIERO ; PIERO BATTEGAZZORE**Agent(s):** ERNESTO CAVELIER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI 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

International class (IPC 8-9): [B65D49/00](#) [B65D49/02](#) [B65D49/04](#) [B65D49/12](#) [B65D55/02](#) [B65D55/08](#) (Advanced/Invention);
[B65D49/00](#) [B65D55/02](#) (Core/Invention)

International class (IPC 1-7): [B65D49/02](#) [B65D49/04](#) [B65D49/12](#) [B65D55/08](#)

CPC: [B65D49/04](#) [B65D55/0863](#) [B65D49/12](#) [B65D49/02](#)**European class:** [B65D49/04](#) [B65D55/08C](#)[Classification Explorer](#)**Cited documents:** US2723773 A, GB2302867 A1, FR2179622 A1, EP1238919 A1,**Forward Citations:** WO08104313, WO06123961, US8453857, KR101277818, EP1964787, EP1816085, EA015240, CN102001484,**Abstract:**

The invention relates to a tamper evident closure for a bottle, particularly a bottle suitable for containing valuable drinks, having a neck (5, 34, 54) which extends axially along the longitudinal axis (X-X) from the body of the bottle

(2, 31, 51), the neck (5, 34, 54) has an opening (7, 33, 56) at its free end and the closure comprises means of a threaded connection to a pouring device (6, 38, 55), the pouring device (6, 38, 55) is connected to a sleeve (17, 47, 65) arranged axially along the outer surface of said neck (5, 34, 54) having the characteristic of comprising annular means (18, 45, 70) arranged between the base of said neck (5, 34, 54) and the lower end of the sleeve (17A, 47B, 65B) and being connected by means of breakable connecting means (46, 64, 82) to said sleeve (17, 47, 65), the annular means (18, 45, 70) and said lower end (17A, 47B, 65B) of said sleeve (17, 47, 65) having respective surfaces (11A, 18E, 47C, 45I, 65C, 70D) facing towards each other and at least one of said facing surfaces (11A, 18E; 47C, 45I; 65C, 70D) of said annular means (18, 45, 70) and of said lower end (17A, 47B, 65B) being inclined relative to the longitudinal axis (X-X) of the neck (5, 34, 54), so that as a result of an axial movement of said annular means (18, 45, 70) towards said opening in said neck (5, 34, 54), breakage of said breakable means (46, 64, 82) occurs and consequent radial movement of at least one circumferential zone of said annular means (18, 45, 70).

41) Family number: 51738229 (US2013206756A)

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Title: COMPOSITIONS FOR CONTAINERS AND OTHER ARTICLES AND METHODS OF USING SAME

Priority: AU20120214524 20120207 AU20130217087 20130206 US20110440085P 20110207
 AU20160200329 20160120 AU20160203874 20160609 CN201280008100 20120207
 US20110579072P 20111222 WO2012US24193 20120207 WO2012US24191 20120207
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Family:

Publication number	Publication date	Application number	Application date
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AU2012214524 BB	20160512	AU20120214524	20120207
AU2012214524 BI	20160616	AU20120214524	20120207
AU2013217087 AA	20130815	AU20130217087	20130206
AU2013217087 BB	20151022	AU20130217087	20130206
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Probable Assignee: VALSPAR SOURCING INC

Assignee(s):^(std): KILLILEA T HOWARD ; NIEDERST JEFFREY ; O BRIEN ROBERT M ; ROMAGNOLI KEVIN ; VALSPAR SOURCING INC ; VON MAIER MARK S ; EVANS RICHARD H ; VALSPAR SORSING INK

Assignee(s): KILLILEA T ; VALSPAR SOURCING INC901 3RD AVENUE SOUTH P.O. BOX 1461MINNEAPOLISMN55440US

Inventor(s):^(std): EVANS RICHARD H ; KILLILEA T HOWARD ; MAIER MARK S VON ; O BRIEN ROBERT M ; NIEDERST JEFFREY ; ROMAGNOLI KEVIN ; ROMANOLI KEVIN ; O BRAJEN ROBERT M ; NIDERST DZHEFFRI ; KILLILEA T KHOVARO ; FON MAJER MARK S ; EVANS RICHARD KH ; BRIEN ROBERT M O ; BRIEN ROBERT M ; ROMAGNOLL KEVIN ; VON MAIER MARK S

Inventor(s): VON MAIER MARK SUS ; T HOWARD KILLILEA ; OBRIEN ROBERT M ; ROMAGNOLI KEVINUS ; NIEDERST JEFFREYUS ; O BRIEN ROBERT MUS ; RICHARD H EVANS ; ROBERT M O BRIEN ; MARK S VON MAIER ; KILLILEA T HOWARDUS ; EVANS RICHARD HUS ; JEFFREY NIEDERST ; KEVIN ROMAGNOLI ; KILLILEA T

Agent(s): WYNNES PATENT AND TRADE MARK ATTORNEYS; SMART AND BIGGAR; VOSSIUS AND PARTNER; MATSUMOTO KEN; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; DEMASTER ANDREW A

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

International class
(IPC 8-9): [A47J47/02](#) [B05D1/00](#) [B05D7/14](#) [B05D7/22](#) [B05D7/24](#) [B21D5/00](#) [B32B15/08](#) [B65D25/14](#) [B65D65/42](#) [C08G59/06](#) [C08G59/14](#) [C08G59/24](#) [C08L71/00](#) [C09D129/10](#) [C09D163/00](#) [C09D171/00](#) [C09D171/10](#) [C09D171/12](#) [C09D5/03](#) [C09D5/08](#) [C09D7/12](#) [C23C2/00](#) [C23C26/00](#) (Advanced/Invention); [C08G59/00](#) [C08G65/00](#) (Advanced/Non-invention); [B05D1/00](#) [C09D171/00](#) [C09D5/03](#) (Core/Invention)

CPC: [B65D25/14](#) [C09D5/08](#) [A47J47/02](#) [C08G59/063](#) [C08G59/066](#) [C08G59/1444](#) [C08G59/245](#) [C08G2650/56](#) [C08G59/00](#) [C08G65/00](#) [B05D7/227](#) [B05D2202/00](#) [C09D5/031](#) [C09D5/033](#) [C09D5/037](#) [Y10T428/1355](#) [C09D163/00](#) [B21D5/00](#) [C09D171/00](#) [C08L71/00](#) [C09D5/03](#)

US class: [1/1](#) [206/524.3](#) [206/524.6](#) [220/62.11](#) [220/62.12](#) [220/62.13](#) [413/1](#) [428/35.8](#) [523/400](#)

[Classification Explorer](#)

Cited documents: WO13169459, WO13149234, WO12162299, WO12162298, WO12151184, WO12149340, WO12091701, WO11130671 A2, WO11130671, WO10118349, WO09036790 A1, WO09015493, WO08137562 A1, WO07132153 A1, WO07054304 A1, WO07048094 A2, WO04050740 A1, WO0071337, USRE28862 E, US8519085, US8465846, US8449960, US8168276, US8142858, US8129495, US8110614, US8013052, US7985522, US7981515, US7981511, US7915743, US7910170 BB, US7846998, US7838577, US7820772, US7803440, US7803439, US7709582, US7682674, US7675185, US7666953, US7635662, US7619056, US7585904, US7544727, US7446234, US7397139, US7332560, US7256228, US7198849, US7157119, US7078077, US7063914, US7037584, US7022765, US6984608, US6984262, US6924328, US6916874, US6894093, US6844071, US6833398, US6794445, US6777464, US6660688, US6608163, US6579829, US6576718, US6566426, US6472472, US6469127, US6399738 BA, US6376021 BA, US6242533 BA, US6225436 BA,

US6133402 A, US6060577 A, US6048931 A, US6043333 A, US6034157 A, US6008273 A, US5994462 A, US5922817 A, US5916933 A, US5880248 A, US5859172 A, US5830952 A, US5811498 A, US5807912 A, US5803301 A, US5718352 A, US5686185 A, US5677398 A, US5623031 A, US5591788 A, US5576413 A, US5567781 A, US5527840 A, US5496921 A, US5494950 A, US5446009 A, US5296525 A, US5288839 A, US5212241 A, US5162406 A, US5115082 A, US5102608 A, US5080961 A, US5068284 A, US5010147 A, US4994217 A, US4880892 A, US4849502 A, US4806597 A, US4794156 A, US4794102 A, US4729983 A, US4707534 A, US4665149 A, US4647612 A, US4622368 A, US4600737 A, US4564655 A, US4552814 A, US4522984 A, US4510513 A, US4476262 A, US4468483 A, US4446258 A, US4413015 A, US4399241 A, US4374233 A, US4368315 A, US4340716 A, US4333809 A, US4283428 A, US4173594 A, US4172103 A, US4122060 A, US4111910 A, US4076764 A, US4051195 A, US4011184 A, US4009224 A, US3984363 A, US3971808 A, US3959571 A, US3920510 A, US3905926 A, US3888812 A, US3879348 A, US3876606 A, US3853869 A, US3775424 A, US3681390 A, US3642828 A, US3641011 A, US3627787 A, US3624107 A, US3578615 A, US3509174 A, US3491116 A, US3491112 A, US3491111 A, US3477990 A, US3475266 A, US3379684 A, US3313775 A, US3288884 A, US3275601 A, US3220974 A, US3153008 A, US3102043 A, US3085992 A, US2633458 A, US2528933 A, US2500449 A, US2015151878 AA, US2015021323 AA, US2014113093, US2013324652, US2013316109, US2013280455 AA, US2013052381, US2012301647, US2012301646, US2012301645, US2012172568, US2012165429, US2012125800, US2011315591, US2011294921, US2011160408, US2011042338, US2010285309, US2010143681, US2010086716, US2010056726, US2010056663 AA, US2009326107 AA, US2009281224, US2009158963, US2009068473, US2008319156, US2008319102, US2008251757, US2008246173, US2008193689, US2008171195, US2008033080 AA, US2007281179, US2007154643 AA, US2007099130, US2007087146 AA, US2007065608 AA, US2007065608, US2007036903, US2006142442, US2006134541, US2006052523, US2006025559, US2005215670 AA, US2005196629, US2005090593, US2005090044, US2005075465 AA, US2005014004, US2004220372, US2004214926, US2004176563, US2004044101, US2003209553, US2003203991, US2003181628, US2003171527, RU2369624, KR100804293 B1, JP8230328, JP7196770 A2, JP7196770, JP7138502 A2, JP7138502, JP7126574 A2, JP7126574, JP63304068 A2, JP63165378 A2, JP63165378, JP3484546 B2, JP2013529226 T2, JP2013529226, JP2008151428, JP2006176658, JP2004053016, JP2004010874, JP2003183352 A2, JP2003183352, JP2003178348, JP2003012763 A2, JP2003012763, JP2002220563 A2, JP2002220563, JP2002155727, JP2002138245 A2, JP2002138245, JP2002097250 A2, JP2002097250, JP2001526716 T2, JP2001526716, JP2000005019 A2, JP2000005019, JP1988138502, EP0620238 A2, EP0265791, EP0185118, CN1543490 A, CN1402767 A, CN1368903 A, CN1211261 A, CN101517020 A, CN101316706 A,

Forward Citations: WO17079437, WO16201407, WO16064696, WO15164703, WO15160788, WO15148447, WO15026479, US9724276, US9499918, US9475328, US9409219, US9321935, US2015203713, US2013206756, EP2882658, CN105722811, CN105492329, CN103589283,

Abstract:

Source: US2013206756A This invention provides a polymer, which is preferably a polyether polymer. The polymer may be used in coating compositions. Containers and other articles comprising the polymer and methods of making such containers and other articles are also provided. The invention further provides compositions including the polymer (e.g., powder coatings), which have utility in a variety of coating end uses, including, for example, valve and pipe coatings.

42) Family number: 42032568 (US2010145287A)

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Title: ASSEMBLY FOR CONDITIONING AND DISPENSING A MEDICAL LIQUID
Priority: EP20080761734 20080103 FR20070000245 20070112 WO2008FR00010 20080103
Family:

Publication number	Publication date	Application number	Application date
AT520605 E	20110915	AT20080761734T	20080103
DE602008008965 D1	20111103	DE200860008965T	20080103
EP2111362 A2	20091028	EP20080761734	20080103
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US84444610 BB	20130521	US20080522793	20080103
WO08099079 A2	20080821	WO2008FR00010	20080103
WO08099079 A3	20081016	WO2008FR00010	20080103

Probable Assignee: REXAM PHARMA**Assignee(s):**^(std): GREVIN GUILLAUME ; REXAM PHARMA ; REXAM PHARMA SOC PAR ACTIONS S**Assignee(s):** REXAM PHARMA SOC PAR ACTIONS SIMPLIFIEE ; REXAM PHARMA SOCIETE PAR ACTIONS SIMPLIFIEE**Inventor(s):**^(std): GREVIN GUILLAUME**Inventor(s):** GUILLAUME GREVIN**Agent(s):** LIEB FABIAN MSC UNIV OF LONDON; BLOT PHILIPPE ROBERT EMILE; CABINET LAVOIX; REINHOLD COHN AND PARTNERS; YOUNG AND THOMPSON; BLOT PHILIPPE 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
 (IPC 8-9): [A61F9/00 A61J1/22 A61M35/00 B65D47/18 B65D50/04 B65D83/00](#) (Advanced/Invention);
[A61F9/00 A61J1/14 A61M35/00 B65D47/06 B65D50/00 B65D83/00](#) (Core/Invention);
[A61F B65D](#) (Subclass/Invention)

CPC: [A61M35/00 A61F9/0008 B65D47/18 B65D50/046](#)**European class:** [A61F9/00B B65D47/18 B65D50/04F2](#)**US class:** [222/420 604/295 604/295P 604/298](#)[Classification Explorer](#)**Cited documents:** US7628283 BB, US7488303 BA, US6854613 BB, US6612469 BB, US6561370 BA, US6398766 BA, US6334557 BA, US6161711 A, US6102223 A, US6000578 A, US5975381 A, US5927527 A, US5918752 A, US5915576 A, US5687863 A, US5673808 A, US5624057 A, US5328058 A, US5246145 A, US4709824 A, US4667836 A, US4588097 A, US4551371 A, US4548329 A, US4529096 A, US4522307 A, US4351442 A, US4330067 A, US4002275 A, US3974929 A, US3917097 A, US3881624 A, US3837518 A, US3667636 A, US3399796 A, US2009192266 AA, US2007233021 AA, US2006111680 AA, US2005267423 AA, US2004182814 AA, US2004140319 AA, US2004079671 AA, US2003222046 AA, US2003181354 AA, US2003039781 AA, GB2256638 A1, FR2414005 A1, EP0343778 A1, EP0111419 A1, DE9312423 U,**Forward Citations:** WO15051972, USD775326, USD771802, USD770287, USD732975, USD732400, US9650188, US9351556, US8702663, US2015165138, US2015059923, US2014350492,

US2014151322, US2013175273, US2013096517, US2011297703, US2011009836,
US2010320168, JP5695822, JP2010115484, EP2842886, CN105592934, CN105496776,
CN104609014,

Abstract:

Source: US2010145287A This assembly is of the type including: a vessel (4) for containing liquid, the vessel (4) having a neck (14); a dispensing dropper end fitting (6) disposed at the end of the neck (14); and a cap (8) for closing the vessel (4), provided to be screwed onto the neck (14). In a preferred embodiment, the cap (8) and the neck (14) have safety element preventing the cap (8) from being unscrewed simply by applying an unscrewing torque, and allowing the cap (8) to be unscrewed when an additional action is applied together with the torque for unscrewing the cap (8).

0) US4763803A – STOPPER FOR A CONTAINER SUCH AS A BOTTLE, AND A...

43) Family number: 29361532 (US4763803A)

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Title: STOPPER FOR A CONTAINER SUCH AS A BOTTLE, AND A PUMP CONNECTABLE THERETO FOR EXTRACTION OF GASEOUS MEDIUM FROM OR PUMPING IN THEREOF INTO THE CONTAINER

Priority: CA19870527243 19870113 CA19870577439 19870113 FI19870000217 19870120
JP19870012193 19870120 NL19868600111 19860120 NL19860000111 19860120

Family:

Publication number	Publication date	Application number	Application date
<u>AT42078 E</u>	19890415	AT19870200051T	19870115
<u>AU198767523 A1</u>	19870723	AU19870067523	19870113
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<u>CA1280718 A2</u>	19910226	CA19880577439	19880915
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<u>DE8717551 U1</u>	19890216	DE19870017551U	19870115
<u>DK14487 A</u>	19870721	DK19870000144	19870113
<u>DK14487 A0</u>	19870113	DK19870000144	19870113
<u>DK161764 B</u>	19910812	DK19870000144	19870113
<u>DK161764 C</u>	19920127	DK19870000144	19870113
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<u>EP0234607 B1</u>	19890412	EP19870200051	19870115
<u>ES2007549 B3</u>	19890616	ES19870200051T	19870115
<u>FI870217 A</u>	19870721	FI19870000217	19870120
<u>FI870217 A0</u>	19870120	FI19870000217	19870120
<u>FI89032 B</u>	19930430	FI19870000217	19870120
<u>FI89032 C</u>	19930810	FI19870000217	19870120
<u>FI920714 A0</u>	19920219	FI19920000714	19920219
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<u>HK64289 A</u>	19890818	HK19890000642	19890810
<u>JP1706360 C3</u>	19921027	JP19870012193	19870120
<u>JP1981307 C3</u>	19951025	JP19900245981	19900914
<u>JP3060743 B4</u>	19910917	JP19870012193	19870120
<u>JP3124569 A2</u>	19910528	JP19900245981	19900914
<u>JP62193963 A2</u>	19870826	JP19870012193	19870120
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<u>NO870213 A0</u>	19870119	NO19870000213	19870119
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<u>US4911314 A</u>	19900327	US19880230072	19880809
<u>US4911314 B1</u>	19920324	US19880230072	19880809

US4998633 A	19910312	US19900472332	19900130	
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Probable Assignee: VACU PRODUCTS BV

Assignee(s):^(std): BERUNARUDASU YOHANESU YOSEFUAS ; BERUNARUDASU YOHANESU YOSEFUASU AUGUSUCHINUSU SHIY ; SCHNEIDER BERNARDUS J J A ; SCHNEIDER B J J A ; SCHNEIDER BERNARDUS JOHANNES J ; BERNARDUS J J A SCHNEIDER ; BERNARDUS JOHANNES JOSEPHUS AU ; BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS SCHNEIDER ; BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS SCHNEIDER T ; SCHNEIDER BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS

Assignee(s): SCHNEIDER BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS DELFT NL ; BERUNARUDASU YOHANESU YOSEFUASU AUGUSUCHINUSU SHUNDAIDAA ; BERUNARUDASU YOHANESU YOSEFUASU AUGUSUCHINUSU SHIYUNDAIDAA ; SCHNEIDER BERNARDUS JJA ; SCHNEIDER BJJA ; BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS SCHNEIDER TE DELFT ; VACU PRODUCTS ROTTERDAMSEWEG BV ; VACU PRODUCTS BV ; SCHNEIDER BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS D ; VACU PRODUCTS B V ; BERUNARUDASU YOHANESU YOSEFUASU AUGUSUCHINUSU SHUN

Inventor(s):^(std): BERNARDUS J J A SCHNEIDER ; BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS SCHNEIDER ; BERUNARUDASU YOHANESU YOSEFUAS ; BERUNARUDASU YOHANESU YOSEFUASU AUGUSUCHINUSU SHIY ; SCHNEIDER BERNARDUS J J A ; SCHNEIDER BERNARDUS JJA ; SCHNEIDER BERNARDUS JOHANNES J ; SCHNEIDER BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS

Inventor(s): SCHNEIDER BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS D ; SCHNEIDER BERNARDUS JOHANNES JOSEPHUS AUGUSTINUS DELFT NL ; SCHNEIDER BERNARDUS JOHANNES JOSEPHUS ; BERUNARUDASU YOHANESU YOSEFUASU AUGUSUCHINUSU SHIYUNDAIDAA ; BERUNARUDASU YOHANESU YOSEFUASU AUGUSUCHINUSU SHUN ; BERUNARUDASU YOHANESU YOSEFUASU AUGUSUCHINUSU SHUNDAIDAA

Agent(s): GRIFFITH HACK; MARKS AND CLERK

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

International class
(IPC 8-9): [B65B31/04 B65D39/00 B65D51/16 B65D51/24 F04B33/00 F04B9/14](#) (Advanced/Invention); [B65D51/24 F04B33/00](#) (Advanced/Non-invention); [B65B31/04 B65D39/00 B65D51/16 B65D51/24 F04B33/00 F04B9/00](#) (Core/Invention); [F04B](#) (Subclass/Invention)

International class
(IPC 1-7): [B65B31/04 B65D39/00 B65D47/00 B65D47/22 B65D47/32 B65D47/34 B65D51/16 B65D51/24 B67B3/24 F04B25/00 F04B9/14](#)

CPC: [B65B31/047 B65D51/165](#)

European class: [B65B31/04E1 B65D51/16D2A](#)

US class: [141/65 215/228 215/260 215/311 220/203.14 220/367 417/547 417/552 417/553](#)

[Classification Explorer](#)

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Forward Citations: WO9607590, WO9112185, WO14155314, WO14069855, WO14069723, WO13162373, WO08075307, WO08043151, WO05110884, WO05110884, WO05110884, WO05035091, WO05002980, WO05002980, WO03097464, WO0246057, WO0232766, WO0230782, USRE46506, USD735525, USD720631, USD720241, USD716965, USD602777, USD441292, USD438801, USD426464, US9656847, US9580225, US9579612, US9370791, US9321019, US9248416, US8919610, US8701910, US8640746, US8573402, US8365758, US8353701, US8192182, US7967509, US7837403, US7743796, US7726356, US7726355, US7562794, US7533701, US7395942, US7334608, US7328730, US7320597, US7299601, US7255022, US7240676, US7198074, US7182912, US7131550, US7096893, US7086427, US7032364, US6874545, US6651834, US6562298, US6530401, US5856194, US5850948, US5795784, US5669530, US5638872, US5573139, US5566730, US5474210,

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 US2005155666, US2005074342, US2005016129, US2004222224, US2004200863,
 US2004123868, US2003194349, US2002085959, TWI322781, NL1016421, NL1016109,
 JP4843117, JP4843110, JP4084157, JP2010054031, ITRM20130183, GB2378697,
 GB2378697, GB2299574, GB2299574, GB2298639, GB2206873, FR2829471,
 FR2717152, ES2234355, ES2223223, EP1868540, EP1514802, EP0644128,
 EP0478243, EP0462861, DE9204007, DE10060998, CZ299940, CN103224082,
 BG64900, AU783809, AU646500, AU2002212832, AP2689,

Abstract:

Source: US4763803A A stopper having a slit valve is provided for a bottle which is adapted to be used with a pump for evacuating air from the bottle to preserve wine being consumed from the bottle or by increasing the pressure in the bottle, for example, to maintain the carbon dioxide content in a soft drink being consumed from the bottle. The stopper and valve are integral and are made of the same elastic material. The valve is surrounded by a raised circular edge for protecting the slit valve. A circular flange is provided which rests on the top of the bottle neck. The raised circular edge is shaped to sealably receive a pump housing.

0) US2003168424A – PRESSURE STOPPER FOR BOTTLES AND THE LIKE

44) Family number: 29489230 (US2003168424A)

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Title: PRESSURE STOPPER FOR BOTTLES AND THE LIKE

Priority: ES20000001355 20000529 US20020296484 20021122 US20050193222 20050801
WO2001ES00181 20010510

Family:

Publication number	Publication date	Application number	Application date
AT283206 E	20041215	AT20010929666T	20010510
AU2001256372 AA	20011211	AU20010256372	20010510
BRPI0111482 A	20030624	BR2001PI11482	20010510
CA2410638 AA	20021128	CA20012410638	20010510
CN1213917 C	20050810	CN20018010278	20010510
CN1431966 A	20030723	CN20018010278	20010510
DE60107430 D1	20041230	DE20016007430	20010510
DE60107430 T2	20051215	DE20016007430T	20010510
EP1300342 A1	20030409	EP20010929666	20010510
EP1300342 B1	20041124	EP20010929666	20010510
ES2171350 AA	20020901	ES20000001355	20000529
ES2171350 BA	20040616	ES20000001355	20000529
JP2003534992 T2	20031125	JP20010588106T	20010510
KR20030015254 A	20030220	KR20027015980	20010510
MXPA02011829 A1	20030410	MX2002PA11829	20010510
RU2002131883 A	20040410	RU20020131883	20010510
US2003168424 AA	20030911	US20020296484	20021122
US2005258132 AA	20051124	US20050193222	20050801
WO0192124 A1	20011206	WO2001ES00181	20010510

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Inventor(s): PERMUY JAVIER ; JAVIER PAJON PERMUY

Agent(s): MILLS OAKLEY LAWYERS; MILLS OAKLEY; BORDEN LADNER GERVAIS LLP;
SANCHELIMA AND ASSOCIATES PA

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

International class
^{(IPC 8-9):} [B65D39/04](#) [B65D39/12](#) [B65D45/02](#) ^{(Advanced/Invention):}
[B65D39/04](#) ^{(Advanced/Non-invention):}
[B65D39/00](#) ^(Core/Invention)

International class
^{(IPC 1-7):} [B65D39/04](#) [B65D39/12](#) [B65D45/02](#)

CPC: [B65D39/12](#)

European class: [B65D39/12](#)

US class: [215/360](#) [215/361](#) [220/237](#)

[Classification Explorer](#)

Cited documents:

US922544 A, US700043 A, US666911 A, US66290 A, US605125 A, US5307841 A, US5044403 A, US456257 A, US4440309 A, US3874541 A, US3156373 A, US303558 A, US2978138 A, US2905355 A, US2773619 A, US2760667 A, US2718974 A, US2564232 A, US251047 A, US2493452 A, US2462445 A, US2439628 A, US2292726 A, US221874 A, US2155491 A, US1842261 A, US1455978 A, US1363804 A, US1307755 A, US1146036 A, GB2190072 A1, FR2572719 A1, FR1066502 A, ES2004043 AF, ES2004043 A2, EP0304253 A2, DE3231140 A1, DE19630729 A1,

Forward Citations: WO16131997, WO07118912, WO05090188, WO05068315, US7207454, US2005092707, NL2000236, FR2852927, ES2299340, ES2284403, DE202013006740, CN105043929, CN104816874, AT412867,

Abstract:

Source: US2003168424A Destined to bottles whose neck (1) is of the revolution type and has a smooth internal surface, being constituted as from a cylindrical bushing (2) of a soft material, like, for example, rubber, with an outside diameter less than the inside diameter of the bottle neck (1), linked with what should be its external end in a perimetric flange (3) for leaning over the mouth (4) of said bottle. Inside this bushing (1), there are two rigid parts, an external part (5) likewise finishing externally in a discoidal head (6) and an inside part (9), in turn finishing internally in a trunco-conical head (10), these parts provided with a threaded neck (8) and a threaded and complementary pin (12), which permits the axial level of both parts as a whole to vary, by means of rotation in one or other direction of the discoidal head and externally (6), such that in the axial contraction of said rigid parts, the trunco-conical head (10) radially deforms the lower end of the bushing (2) against the inside surface of the bottle neck (1) causing an airtight and stable closure.

0) US2011233236A – CONTINUOUS, COMPLETE, AUTOMATIC, NON-LEAKING, N...

45) Family number: 49624456 (US2011233236A)

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Title: CONTINUOUS, COMPLETE, AUTOMATIC, NON-LEAKING, NON-AERATING, POSITIVE PRESSURE ONE-PIECE VENT AND POURING COMBINATION UTILIZING ONE DIRECT VENTING APERTURE

Priority: US20000202851P 20000508 US20080062754P 20080129 US20100340993P 20100325
US20110065411 20110322 US20140120758 20140624 US20090321455 20090121
US20150756834 20151020 US20140122779P 20141029 US20150284408P 20150929
US20150230082P 20150627 US20150234408P 20150929 US20150230082P 20150527
US20160281050 20160929 US20160299338P 20160224 US20160999549 20160523
US20160330352 20160909 US20160365541P 20160722 US20160353708P 20160623
US20170659464 20170725 WO2016US54561 20170406

Family:	Publication number	Publication date	Application number	Application date
	US2011233236 AA	20110929	US20110065411	20110322
	US2016039583 AA	20160211	US20140120758	20140624
	US2016046421 AA	20160218	US20150756834	20151020
	US2016296422 AA	20161013	US20160999549	20160523
	US2017007504 AA	20170112	US20160330352	20160909
	US2017087174 AA	20170330	US20160281050	20160929
	US2017319572 AA	20171109	US20170659464	20170725
	WO17059147 A1	20170406	WO2016US54561	20160929

Probable Assignee: JANSSEN PHARMACEUTICALS INC

Assignee(s):^(std): BROWN CRAIG E ; BROWN ROBERT J ; JANSSEN PHARMACEUTICALS INC ;
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JANS EUGENE ; KAKUDA THOMAS NAKI ; MAHADEVAN SIVI ; MERTENS ROEL ;
PHADKE AVINASH ; PICCHIO GASTON RAFAEL ; VAN DIJCK ALEX ; VAN
REMOORTERE PETER

Agent(s): BELLOWS BRENT R ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH
CI CL CM CN CO CR CU CY CZ DE 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 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

International class
(IPC 8-9): [A45F3/16](#) [A61J11/00](#) [A61J11/02](#) [A61J11/04](#) [A61J9/04](#) [A61K31/4184](#) [A61K31/4709](#)
[A61K31/495](#) [A61K31/522](#) [A61K31/7072](#) [A61K9/00](#) [A61K9/10](#) [A61K9/16](#) [A61P31/14](#)
[B65D25/04](#) [B65D41/04](#) [B65D47/06](#) [B65D47/20](#) [B65D47/32](#) [B65D51/16](#) [B65D85/72](#)
[B67D3/00](#) (Advanced/Invention)

CPC: [A45F3/16](#) [A47G19/2227](#) [A61J11/02](#) [A61J11/04](#) [B65D47/32](#) [A61K31/7072](#) [A61K31/4709](#)
[A61K31/4184](#) [A61K9/0053](#) [A47G19/2266](#) [B65D47/06](#) [A61K9/1617](#) [A61K9/1652](#)
[A61K9/2013](#) [A61K9/2054](#) [B65D47/2018](#) [A61K9/10](#) [A61K2300/00](#)

European class: [A47G19/22B12](#) [A61J11/02](#) [B65D47/32](#) [K61J11/04](#)

US class: [215/11.5](#) [215/6](#) [220/4.26](#) [222/478](#) [222/478S](#) [222/481](#) [222/481.5](#) [222/481.500S](#) [222/545](#)
[514/51](#)

[Classification Explorer](#)

Cited documents: WO15110048 A1, USD404822 S1, US979607 A, US927013 A, US8807360 BB,
US880669 A, US8757406 BB, US8501468 BB, US8342346 BB, US834014 A, US8292099
BA, US8146759 BB, US8113365 BB, US8113364 BA, US8020303 BA, US8011540 BA,

US7984818 BA, US7828165 BB, US7806303 BA, US7537128 BB, US7506784 BB, US7441677 BB, US7395949 BB, US7331478 BB, US679144 A, US6607092 BB, US6568557 BB, US6499615 BA, US6276559 BA, US6257463 BA, US6116439 A, US598231 A, US5964382 A, US5961008 A, US5785195 A, US5779071 C1, US5779071 A, US5747083 A, US5682931 A, US5678710 A, US5570796 A, US5509551 A, US5449098 A, US5439125 A, US5305928 A, US5284262 A, US5282541 A, US5269444 A, US5265769 A, US5232110 A, US5130068 A, US5054660 A, US4967922 A, US4966300 A, US4838464 A, US4640446 A, US4423893 A, US4182460 A, US4120414 A, US4091965 A, US4080989 A, US3813223 A, US3738545 A, US3722728 A, US3655102 A, US3630419 A, US3521796 A, US3467270 A, US345518 A, US3366261 A, US3276640 A, US3254809 A, US3227332 A, US3168221 A, US3120330 A, US3098586 A, US3071272 A, US3059816 A, US3059797 A, US2996207 A, US2757824 A, US2753067 A, US2744646 A, US2742168 A, US2714977 A, US2690861 A, US2610755 A, US2500199 A, US2248127 A, US2239275 A, US2196323 A, US2156314 A, US2156313 A, US2133411 A, US2089575 A, US2061477 A, US2016296422 AA, US2015259188 AA, US2014341847 AA, US2014238949 AA, US2014190922 AA, US2013119056 AA, US2013092693 AA, US2012145726 AA, US2011309083 AA, US2011233236 AA, US2010308003 AA, US2010288723 AA, US2010258593 AA, US2010230405 AA, US2010133221 AA, US2010032398 AA, US2009302073 AA, US2009266737 AA, US2009200257 AA, US2009194030 AA, US2008179334 AA, US2008135514 AA, US2008099422 AA, US2008035646 AA, US2007138176 AA, US2007045214 AA, US2006243694 AA, US2006213859 AA, US2006201902 AA, US2006124573 AA, US2006108378 AA, US2006076362 AA, US2005284835 AA, US2005258124 AA, US2005236353 AA, US2005184075 AA, US2005184026 AA, US2004050883 AA, US2003024895 AA, US2002130126 AA, US189691 A, US1600804 A, US1441623 A, US1190586 A,

Forward Citations: USD799969, USD799968, USD798711, USD797560, USD790968, USD789791, USD787332, US9788574, US9186982, US2016296422, US2016046421, US2016039583, US2015122835, US2014263461, US2014083520, CN105795835,

Abstract:

Source: US2011233236A A vent prevents a vacuum within an inverted container of liquid and eliminates components found in other container vents. The vent utilizes a conical or other shaped venting tube extending from the closure or a reservoir with reservoir extension and an air conduit extending inferiorly from a closure. The closure is either a leak resistant or leak proof seal. The superior aspect of the reservoir contains an inferiorly projecting air conduit, opening at the volumetric center of the reservoir. The reservoir extension projects distally into the container to reach the inferior aspect of the container. The vent provides an airway between the outside and the interior of the container so air freely passes to the distal aspect of the container without contaminating the liquid. Any liquid within the reservoir extension then collects in the reservoir during inversion of the container and then returns to the container when upright. Various attachments may be associated with the container, such as a nipple or spoon for infant feeding.

0) US2005072181A – CONTAINER WITH COVER

46) Family number: 31847036 (US2005072181A)

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Title: CONTAINER WITH COVER

Priority: AU20040216674 20041001 AU20120216548 20120830 AU20150203857 20150709
CA20042483772 20041001 CA20052503470 20050401 US20030674795 20031001
CA20032444155 20031001 CA20032509503 20031001 CA20042438772 20041001
US20090619410 20091116 US20050095648 20050401 US20040954419 20041001
US20100839928 20100720 US20050096273 20050401 US20050145224 20050606
US20100956861 20101130 US20110176308 20110705

Family:	Publication number	Publication date	Application number	Application date
	<u>AU2004216674 AA</u>	20050421	AU20040216674	20041001
	<u>AU2004216674 BB</u>	20120531	AU20040216674	20041001
	<u>AU2012216548 AA</u>	20120920	AU20120216548	20120830
	<u>AU2012216548 BB</u>	20150409	AU20120216548	20120830
	<u>AU2015203857 AA</u>	20150730	AU20150203857	20150709
	<u>CA2444155 AA</u>	20050401	CA20032444155	20031001
	<u>CA2444155 C</u>	20160105	CA20032444155	20031001
	<u>CA2483772 AA</u>	20050401	CA20042483772	20041001
	<u>CA2483772 C</u>	20140429	CA20042483772	20041001
	<u>CA2503470 AA</u>	20060401	CA20052503470	20050401
	<u>CA2503470 C</u>	20130924	CA20052503470	20050401
	<u>CA2509503 AA</u>	20050401	CA20032509503	20031001
	<u>CA2509503 C</u>	20130108	CA20032509503	20031001
	<u>US2005072181 AA</u>	20050407	US20030674795	20031001
	<u>US2005103044 AA</u>	20050519	US20040954419	20041001
	<u>US2005198992 AA</u>	20050915	US20050095648	20050401
	<u>US2005205459 AA</u>	20050922	US20050096273	20050401
	<u>US2005210912 AA</u>	20050929	US20050145224	20050606
	<u>US2010116830 AA</u>	20100513	US20090619410	20091116
	<u>US2010282763 AA</u>	20101111	US20100839928	20100720
	<u>US2011127274 AA</u>	20110602	US20100956861	20101130
	<u>US2011259898 AA</u>	20111027	US20110176308	20110705
	<u>US7162890 BB</u>	20070116	US20030674795	20031001
	<u>US7669436 BB</u>	20100302	US20050095648	20050401
	<u>US7757878 BB</u>	20100720	US20050145224	20050606
	<u>US7841207 BB</u>	20101130	US20040954419	20041001
	<u>US7988006 BB</u>	20110802	US20100839928	20100720
	<u>US8061159 BB</u>	20111122	US20050096273	20050401
	<u>US8459058 BB</u>	20130611	US20100956861	20101130
	<u>US8857654 BB</u>	20141014	US20110176308	20110705
	<u>US8899071 BB</u>	20141202	US20090619410	20091116

Probable Assignee: CALIFORNIA INNOVATIONS INC

Assignee(s):^(std): BIRUTIS ANDRIUS S ; CALIFORNIA INNOVATION INC ; CALIFORNIA INNOVATIONS INC ; CALIFORNIA INNOVATIONS INC CALIFORNIA INNOVATIONS INC ; MOGIL MELVIN S ; GREENSTEIN MARK J ; RAMUNDI MICHAEL ; SAGAN DAVID W ; OLANDER EVAN R ; STEPHENS RICHARD C

Assignee(s): GREENSTEIN MARK JOSEPH ; MOGIL MELVIN SHELDON ; WELLS FARGO CAPITAL FINANCE CANADA CORP ; CALIFORNIA INNOVATIONS INCCALIFORNIA INNOVATIONS INC ; CANADIAN IMP BANK OF COMMERCE AGENT AS ; ARCTIC ZONE INC

Inventor(s):^(std): MOGIL MELVIN SHELDON ; RAMUNDI MICHAEL ; MICHAEL RAMUNDI ; MELVIN S MOGIL ; MARK J GREENSTEIN ; ANDRIUS S BIRUTIS ; STEPHENS RICHARD C ; SAGAN DAVID W ; OLANDER EVAN R ; BIRUTIS ANDRIUS S ; GREENSTEIN MARK JOSEPH ; RAMUNDI MICHAEL RAMUNDI MICHAEL ; MOGIL MELVIN S MOGIL MELVIN S ; MOGIL MELVIN S ; GREENSTEIN MARK J GREENSTEIN MARK J ; GREENSTEIN MARK J ; BIRUTIS ANDRIUS S BIRUTIS ANDRIUS S

Inventor(s): BIRUTIS ANDRIUS ; BIRUTIS ANDRIUS SBIRUTIS ANDRIUS S ; GREENSTEIN MARK JGREENSTEIN MARK J ; MOGIL MELVIN SMOGIL MELVIN S ; MOGIL MELVIN ; GREENSTEIN MARK ; STEPHENS RICHARD ; SAGAN DAVID ; OLANDER EVAN ; RAMUNDI MICHAELRAMUNDI MICHAEL

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; BERESKIN AND PARR LLP; ARENT FOX KINTNER PLOTKIN AND KAHN; MCCARTHY TETRAULT LLP, SUITE 4700; MCCARTHY TETRAULT LLP SUITE 4700; RALPH A DOWELL OF DOWELL AND DOWELL PC; ARENT FOX PLLC; OSTROLENK FABER GERB AND SOFFEN; ARENT FOX LLP; KENNETH L; BERESKIN AND PARR LLP S E N C R L S R L; ISIS; OSTROLENK FABER LLP

International class
(IPC 8-9): A45C11/20 A61M1/00 B65D21/02 B65D25/00 B65D25/04 B65D25/28 B65D43/16 B65D53/00 B65D77/04 B65D81/38 F25D3/08 (Advanced/Invention);
A45C13/00 A45C13/02 A45C13/26 A45C5/06 A45C7/00 A47G19/00 A47J41/00 (Advanced/Non-invention);
B65D25/02 B65D43/16 (Core/Invention)

International class
(IPC 1-7): A45C11/20 A47J39/00 A47J41/00 A47J47/14 A61M1/00 B65D1/22 B65D1/42 B65D25/02 B65D43/16 B65D53/00 B65D77/04 B65D81/38 B65D83/72 F25D3/00 F25D3/08

CPC: A45C7/0077 B65D81/3858 F25D3/08 F25D2303/0822 F25D2303/08222 F25D2331/803 F25D2331/804 F25D2331/805 A45C11/20 A45C5/06 A45C13/008 A45C13/02 A45C13/26

European class: A45C11/20 B65D81/38G4 F25D3/08 K45C13/00W K45C13/02 K45C13/26 K45C5/06 K45C7/00D3 R25D303/0822 R25D303/08222 R25D331/803 R25D331/804 R25D331/805

US class: 206/545 220/23.86 220/23.88 220/23.89 220/530 220/592.01 220/592.03 220/592.030P 220/592.2 220/592.200P 220/592.200S 220/752 62/371 62/457.1 62/457.5 62/457.500 62/457.500S 62/457.7 62/457.700P 62/457.700S 62/530

[Classification Explorer](#)

Cited documents: USD370123 S1, USD369065 S1, USD366812 S1, USD328550 S1, USD312530 S1, USD273533 S1, US7162890 BB, US6821019 BB, US6821019 B1, US6474095 BA, US6296165 BA, US6247328 BA, US6238091 BA, US6234677 BA, US6105844 A, US6092661 A, US6068402 A, US6067816 A, US6027249 A, US5671611 A, US5568735 A, US5526907 A, US5524761 A, US5505307 A, US5501338 A, US5490396 A, US5472279 A, US5434360 A, US5421172 A, US5403095 A, US5354131 A, US5251460 A, US5095718 A, US5005679 A, US4984662 A, US4929094 A, US4916923 A, US4889257 A, US4877128 A, US4867334 A, US4819793 A, US4805776 A, US4767039 A, US4673117 A, US4655052 A, US4648121 A, US4629040 A, US4610286 A, US4598746 A, US4551988 A, US4541540 A, US4537313 A, US4513895 A, US4506769 A, US4499998 A, US4468933 A, US4303109 A, US4286440 A, US4260004 A, US4210186 A, US4085785 A, US4050264 A, US3998072 A, US3935686 A, US3902625 A, US3791547 A, US3572054 A, US3392872 A, US3390703 A, US3358870 A, US3295709 A, US3255607 A, US3238002 A, US3215303 A, US3001566 A, US2954891 A, US2883041 A, US2827096 A, US2808093 A, US2794268 A, US2720208 A, US2654332 A, US2645332 A, US2555788 A, US2555126 A, US2289254 A, US2083056 A, US2005279123 AA, US2005056048 AA, US2004144783 AA, US2004035143 AA, US2002126920 AA, US1973880 A, US1964795 A, US1949677 A, US1922485 A, US1762527 A, US1732098 A, US1700615 A, US1639418 A, US1627344 A, CA2268375 AA, CA226837,

Forward Citations: WO16034986, WO12125378, WO12125378, WO12068208, WO10082762, WO10082762, WO08122080, WO08048571, USD801123, USD799905, USD799277, USD799276, USD798670, USD797455, USD797454, USD787187, USD786562, USD786561, USD786560, USD786559, USD784773, USD773238, USD766571, USD765967, USD762978, USD762384, USD742646, USD734992, USD734643, USD732899, USD732350, USD732349, USD732348, USD731250, USD714553, USD682624, US9809376, US9797621, US9796517, US9643637, US9628891, US9579233, US9578938, US9498036, US9480324, US9422099, US9408445, US9340334, US9320938, US9266659, US9146051, US9139352, US9120608, US9108790, US9084463, US9078535, US8961013, US8827109, US8777045, US8763847, US8763423, US8646970, US8622235, US8516848, US8367180, US8348510, US8215515, US8108963, US8096442, US8043004, US7841207, US7735615, US7419070, US7415794, US7401482, US7313928, US7007747, US2017156463, US2017043906, US2016318694, US2016258665, US2016244239, US2016073752,

US2015136796, US2015034639, US2015008242, US2014352350, US2014093188, US2014054299, US2013320579, US2013284619, US2013247606, US2013233855, US2013174600, US2013161224, US2013157814, US2013062448, US2013043285, US2012313397, US2012286003, US2012085850, US2012072046, US2011121002, US2011114714, US2011031254, US2011005956, US2010252560, US2010147918, US2010139499, US2010108556, US2010089929, US2010018983, US2009294308, US2009261012, US2008025544, US2007280094, US2007278234, US2007205234, US2007012069, US2006196218, US2006178172, US2005279123, US2005205459, US2005103044, US2005082303, US2005082046, KR100923114, JP2011518310, ITRM20110515, FR2887859, FR2887859, EP2759789, EP1739031, DE102010014063, DE102010014063, CN104296482, CN103547183, AU2016201012,

Abstract:

Source: US2005072181A A soft sided insulated container assembly includes a first portion having an insulated, soft sided external wall structure, and an internal, substantially rigid molded plastic receptacle mounted therein. It has a cover structure that includes a reinforcement member for engaging a land region of the molded receptacle, thereby tending to yield an interface tending to have a sealing relationship. The container may also include a thermal storage element, and the container may have an accommodation for receiving the thermal storage element.

0) US2011056902A – TRANSPORTATION AND/OR STORAGE DEVICE COMPRISING...

47) Family number: 42259585 (US2011056902A)

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Title: TRANSPORTATION AND/OR STORAGE DEVICE COMPRISING A DOUBLE-WALLED INSULATING BULB

Priority: EP20080718188 20080325 FR20070054114 20070329 FR20070075114 20070329
US20090450543 20090928 US20080450543 20080325 JP20100500249 20080325
WO2008EP53503 20080325 US20120422720 20120316

Family:	Publication number	Publication date	Application number	Application date
	<u>AU2008238089 AA</u>	20081023	AU20080238089	20080325
	<u>AU2008238089 BB</u>	20111201	AU20080238089	20080325
	<u>BRPI0809682 A2</u>	20141007	BR2008PI09682	20080325
	<u>CA2682272 AA</u>	20090929	CA20082682272	20080325
	<u>CA2682272 C</u>	20130827	CA20082682272	20080325
	<u>CN101680698 A</u>	20100324	CN200880010492	20080325
	<u>CN101680698 B</u>	20121024	CN200880010492	20080325
	<u>DE602008043034 D1</u>	20160428	DE200860043034T	20080325
	<u>DK2137472 T3</u>	20160425	DK20080718188T	20080325
	<u>EP2137472 A1</u>	20091230	EP20080718188	20080325
	<u>EP2137472 B1</u>	20160323	EP20080718188	20080325
	<u>ES2567557 T3</u>	20160425	ES20080718188T	20080325
	<u>FR2914408 A1</u>	20081003	FR20070054114	20070329
	<u>FR2914408 B1</u>	20090821	FR20070054114	20070329
	<u>HK1136861 A1</u>	20130510	HK20100104495	20100510
	<u>HU027359 T2</u>	20160928	HU20080718188T	20080325
	<u>IN03720KN2009 A</u>	20100212	IN2009KN03720	20091026
	<u>JP2010522863 T2</u>	20100708	JP20100500249T	20080325
	<u>JP2013076564 A2</u>	20130425	JP20120238014	20121029
	<u>JP5124633 B2</u>	20130123	JP20100500249T	20080325
	<u>KR101247869 B1</u>	20130326	KR20097020067	20080325
	<u>KR20100014590 A</u>	20100210	KR20097020067	20080325
	<u>MX2009010295 A1</u>	20100308	MX20090010295	20080325
	<u>NZ580727 A</u>	20110729	NZ20080580727	20080325
	<u>RU2009135858 A</u>	20110410	RU20090135858	20080325
	<u>RU2454617 C2</u>	20120627	RU20090135858	20080325
	<u>US2011056902 AA</u>	20110310	US20080450543	20080325
	<u>US2012211498 AA</u>	20120823	US20120422720	20120316
	<u>US8181813 BB</u>	20120522	US20080450543	20080325
	<u>US8387818 BB</u>	20130305	US20120422720	20120316
	<u>WO08125434 A1</u>	20081023	WO2008EP53503	20080325

Probable Assignee: ST REPRODUCTIVE TECHNOLOGIES LLC

Assignee(s):^(std): ST REPRODUCTIVE TECH LLC ; ST REPRODUCTIVE TECHNOLOGIES L ; ST REPRODUCTIVE TECHNOLOGIES LLC ; ST REPRODUCTIVE TECHNOLOGIES LLC ; ST REPRODUKTIV TEKNOLODZHIS LLS ; ST REPRODUCTIVE TECHNOLOGIESLLC ; COGNARD ERIC

Assignee(s): COMPASS BANK ADMINISTRATIVE AGENT AS ; ERIC COGNARD ; ST REPRODUCTIVE TECHNOLOGIES LLC NAVASOTA

Inventor(s):^(std): ERIC COGNARD ; KOGNARD EHRIK ; COGNARD ERIC

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD;

PERRY AND CURRIER; KADOR ULRICH; KADOR UTZ ULRICH; ISERN JORGE;
CABINET PHILIPPE KOHN; RYAN; CINDEE R; ST REPRODUCTIVE TECHNOLOGIES
LLC; KOHN PHILIPPE 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY
SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class A01N1/02 A47J41/02 B65D1/02 B65D77/04 B65D81/38 B65D85/30 F17C13/00 F17C3/00
(IPC 8-9); F17C3/02 F25D23/06 F25D3/10 (Advanced/Invention);
B65D77/04 F17C3/00 F25D23/06 F25D3/10 (Core/Invention);
F25D (Subclass/Invention)

International class F25D3/10
(IPC 1-7);

CPC: A01N1/02 F25D3/107 A01N1/0257

European class: A01N1/02 A01N1/02M2T2 A01N1/02M4T F25D3/10C

US class: 215/40 215/40P 220/23.83 220/560.04 220/560.1 220/592.01 220/592.010P 220/592.2
220/592.200S

[Classification Explorer](#)

Cited documents: WO08125434 A1, WO06055577 A2, WO04037653 A2, US8181813 BB, US7325690 BB,
US7299650 BA, US707634 A, US6119465 A, US5894733 A, US5232095 A, US4512471
A, US3613934 A, US2900800 A, US2010299278 AA, US2002084277 AA, US1593142 A,
RU2221971 C1, JP63129280 A2, JP61019054 Y2, JP4109025 U1, JP4109025 U,
JP3133767 A2, JP2001341779 A2, FR2915186 A1, FR2914408 A1, FR2868402 B1,
FR2868402 A1, FR2845973 A1, FR2845972 A1, EP1554180 A2, EP0250170 A2,
EP0026691 A1, DE392048 A, CH156551 A, CH156551,

Forward Citations: WO16196553, WO14185943, WO13109753, WO12162384, WO11146646, US9504247,
US9279751, US8956855, US8387818, US8181813, US2015031126, US2013105503,
US2012211498, JP2011037516, FR3005040, FR2975749, EP2991915, EP2715210,
EA023192, CN103303589, CN102905989, CN102905989, CN102795420, CN102795420,
AU2011255563,

Abstract:

Source: US2011056902A The invention relates to a device (10) for transporting and/or storing products, particularly of cryostat type, having an external packaging structure (14) comprising walls defining an internal volume (16) within which is a double-walled insulating bulb (12) whose body (32) is formed by an outer wall (34) and an inner wall (36) defining an internal volume (38), bulb (12) comprising an upper neck (40) defining an upper filling opening (42), and the device (10) comprising bulb (12) supporting means (46) that comprise attachment means (48) capable of engaging with the inner wall (36) only of bulb (12) in order to suspend the bulb (12) vertically by its neck (40) in such a way that the bulb (12) hangs freely in the empty space inside the internal volume (16) defined by the packaging structure (14, 18, 22), with no contact between the outer wall (34) of the bulb (12) and the walls (24, 22) of the packaging structure (14), said device being characterized in that the means (46) for the suspended support of the bulb (12) consist of at least one (20) of the walls of the packaging (14).

48) Family number: 51569756 (US2012187071A)

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Title: BOTTLE AND CAP
Priority: US20110013429 20110125
Family:

Publication number	Publication date	Application number	Application date
US2012187071 AA	20120726	US20110013429	20110125
US8672156 BB	20140318	US20110013429	20110125
WO12103225 A2	20120802	WO2012US22559	20120125
WO12103225 A3	20121108	WO2012US22559	20120125

Probable Assignee: CAP CRAFT CORP

Assignee(s):^(std): CAP CRAFT CORP ; MARTINOVIC ANDREJ ; ZAKKA RICHARD J

Inventor(s):^(std): MARTINOVIC ANDREJ ; ZAKKA RICHARD J

Agent(s): GOODWIN PROCTER LLP; LANSKY DAVID E 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 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

International class ^(IPC 8-9): [B65D25/08](#) [B65D41/04](#) [B65D41/34](#) [B65D51/28](#) [B65D81/32](#) (Advanced/Invention)

CPC: [B65D51/28](#) [B65D51/18](#)

US class: [215/227](#) [215/250](#) [215/253](#) [215/329](#)

[Classification Explorer](#)

Cited documents: WO10040366 A1, WO09020294 A1, WO06046725 A1, US7874420 BB, US7588142 BA, US7568576 BB, US7562770 BA, US7546919 BB, US7537112 BB, US7503453 BB, US7347322 BB, US7210575 BB, US7070046 BB, US7032745 BB, US6959841 BB, US6945393 BB, US6935493 BB, US6886686 BB, US6820740 BA, US6772910 BA, US6705491 BA, US6705490 BA, US6644471 BA, US6221416 BA, US6209718 BA, US6170654 BA, US6170654 B1, US5967309 A, US5950819 A, US5465835 A, US5211973 A, US4502604 A, US4024952 A, US2011226770 AA, US2010044254 AA, US2010012193 AA, US2009194533 AA, US2009139882 AA, US2008054001 AA, US2008023349 AA, US2007251910 AA, US2007193894 AA, US2007193893 AA, US2007074979 AA, US2007051689 AA, US2007023300 AA, US2006254936 AA, US2006118435 AA, US2006108135 AA, US2005040052 AA, US2004200742 AA, US2004050868 AA, US2003222102 AA, KR2008040532 A, KR20080040532 A, KR20070086328 A, KR2006015685 A, KR20060015685 A, KR1020080040532, KR1020070086328, KR1020060015685,

Forward Citations: WO16189470, USD731238, US9701453, US2017073133, US2016167852, US2013146070, US2013056505,

Abstract:

Source: US2012187071A The embodiments described herein disclose a bottle and cap. The cap seals the bottle and thereby defines a compartment within the bottle for storing liquid or other material. The cap also includes an internal compartment for storing a liquid or other material in a sealed manner. The cap is designed to readily allow for sterilization during manufacturing, maintaining proper sealing of the compartments, dispensing material from one compartment into the other and providing a tamper-resistant closure.

49) Family number: 22728909 (US2848130A)

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Title: PRESSURE RESISTANT CLOSURES**Priority:** US19530384687 19531007

Family:	Publication number	Publication date	Application number	Application date
	<u>US2848130 A</u>	19580819	US19530384687	19531007

Probable Assignee: DUO VENT VACUUM CLOSURE COMPAN**Assignee(s):^(std):** DUO VENT VACUUM CLOSURE COMPAN**Assignee(s):** DUO VENT VACUUM CLOSURE COMPANY ; DUO VENT VACUUM CLOSURE CO**Inventor(s):^(std):** JESNIG CHARLES J

International class B65D51/00 (Advanced/Invention) ;
 (IPC 8-9) : B65D51/00 (Core/Invention)

International class A61J1/06 B65D55/12
 (IPC 1-7) :

CPC: Y10S215/902 B65D51/002**European class:** B65D51/00B**US class:** 215/247 215/270 215/358 215/45 215/902 D24/224[Classification Explorer](#)**Cited documents:** US781182 A, US343647 A, US2687831 A, US2577780 A, US2370535 A, US2368431 A, US2324237 A, US2215392 A, US2173571 A, US2155811 A, US1188998 A, GB190309239 A,**Forward Citations:** WO9725254, WO9704073, WO9704073, WO04042292, WO0044637, USD644104, USD643720, USD631754, USD564879, US9260795, US8807363, US8453888, US7934613, US7757889, US7063221, US6976509, US6849285, US6068150, US6065627, US5947274, US5862936, US5232109, US5171304, US5111946, US4967919, US4545497, US4358425, US4293078, US4290535, US4172534, US4084718, US4068696, US3958572, US3737063, US3695478, US3682349, US3647059, US3604602, US3467097, US3434615, US3409159, US3338447, US3301270, US3278063, US3255909, US3215298, US3173565, US3107805, US3075676, US3047178, US2987130, US2977973, US2969887, US2014061250, US2013213924, US2013178793, US2011139828, US2010226747, US2009287160, US2008223812, US2006123836, US2006054586, US2004115096, US2003019830, US2003010668, JP6099997, JP3549907, EP0573102, EP0299931, DE2236528, AT401378,**Abstract:**

Source: US2848130A (Claim 1) 1. A bottle and stopper combination susceptible to autoclaving pressures comprising a bottle having an internal neck surface of predetermined diameter, a neck ring projecting inwardly from said surface and terminating in a peripherally continuous edge of acute angularity axially of the bottle neck, a closure plug of resilient material comprising a solid plug portion of generally cylindrical form the external diameter of which is not less than the internal diameter of said neck, a tapered hollow shank portion integral with the plug portion, a peripherally discontinuous slit-like groove partially defined by a generally planar taper surface merging by a curve into the generally cylindrical plug portion and of general conformance in profile with the upper surface of the neck ring, said groove defined in the other part by a generally planar surface merging into the shank by an acutely angled edge, said groove defining surfaces being so close together that upon insertion of the closure into the neck the groove surfaces are stressed into intimate contacting engagement with the respective surfaces of the neck ring with inappreciable spacing of material of the closure and the neck ring whereby the shank and plug are placed in tension stress adjacent to said neck ring to enhance the seal on both surfaces of the neck ring and liquid retention space between the neck ring and said closure is substantially obviated.

50) Family number: 29025586 (US2006180607A)

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Title: CLOSURE**Priority:** GB20030016413 20030712 WO2004GB02986 20040709

Family:	Publication number	Publication date	Application number	Application date
	AU2004257906 AA	20050127	AU20040257906	20040709
	CA2532129 AA	20060111	CA20042532129	20040709
	EP1644568 A1	20060412	EP20040743327	20040709
	GB200316413 A0	20030820	GB20030016413	20030712
	GB2403953 A1	20050119	GB20030016413	20030712
	US2006180607 AA	20060817	US20040564117	20040709
	WO05007965 A1	20050127	WO2004GB02986	20040709
	ZA200600178 A	20070328	ZA20060000178	20060106

Probable Assignee: RECKITT BENCKISER NV**Assignee(s):^(std):** GIBIS KARL LUDWIG ; GUZMANN MARCUS ; RECKITT BENCKISER NV ; HOUSMEKERIDES CHRIS EFSTATHIOS ; RECKITT BENCKISER N V ; RECKITT BENCKISER UK LTD ; WIEDEMANN RALF**Assignee(s):** RECKITT BENCKISER UK LIMITED ; RECKITT BENCKISER LTD**Inventor(s):^(std):** CHRIS EFSTATHIOS HOUSMEKERIDES ; EFSTATHIOS HOUSMEKERIDES CHRIS ; GIBIS KARL LUDWIG ; GUZMANN MARCUS ; HOUSMEKERIDES CHRIS ; HOUSMEKERIDES CHRIS E ; HOUSMEKERIDES CHRIS EFSTATHIOS ; KARL LUDWIG GIBIS ; MARCUS GUZMANN ; RALF WIEDEMANN ; WIEDEMANN RALF**Agent(s):** FB RICE; FB RICE PTY LTD; FETHERSTONHAUGH AND CO; NORRIS MCLAUGHLIN AND MARCUS**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

International class
 (IPC 8-9): [A47L15/44 B32B1/02 B32B27/08 B65D39/00 B65D55/00 B65D65/46 B67D5/08 B67D7/08 D06F39/02](#) (Advanced/Invention);
[A47L15/44 B32B1/00 B32B27/08 B65D39/00 B65D55/00 B65D65/46 B67D7/08 D06F39/02](#) (Core/Invention);
[A47L D06F](#) (Subclass/Invention)

International class
 (IPC 1-7): [A47L15/44 B65D39/00 D06F39/02](#)

CPC: [Y10T428/1352 B32B27/08 A47L15/4445 B32B1/02 B65D65/46 D06F39/024 Y02W90/12](#)**European class:** [A47L15/44D B32B1/02 B32B27/08 B65D65/46 D06F39/02C](#)**US class:** [215/233 215/233S 215/6 215/6S 220/201 220/201S 222/54 222/54P 428/35.7 428/35.700S](#)[Classification Explorer](#)**Cited documents:** WO9012864 A1, WO02085738 A1, US7078462 BB, US6800598 BA, US6223937 BA, US5453216 A, US5176275 A, US5133892 A, US5004556 A, US4972017 A, US4942973 A, US4808236 A, US4801636 A, US4774014 A, US4765916 A, US4700857 A, US4588080 A, US4569781 A, US4569780 A, US4416791 A, US4188304 A, US4082678 A, US3856932 A, US3399806 A, US3275448 A, US2920417 A, US2003108705 AA, US2002187916 AA, US2002187910 AA, US1325361 A, EP0744465 A2, EP0479788 B1, EP0284191 A2,**Forward Citations:** WO08145964, US8418603, US8220653, US2010162901, US2008173375, US2008110891, GB2501503,

Abstract:

Source: US2006180607A The invention relates to a closure for a bottle. The closure is dispersible in a washing medium, wherein the closure comprises a first component and a second component. Each component defines a seal enclosing a volume within the bottle. The dispersion of each component is activated by a different means.

Title: VACCUM PUMP FOR BOTTLES**Priority:** ES20020001144 20020520 WO2003ES00225 20030520

Family:	Publication number	Publication date	Application number	Application date
	AT381487 E	20080115	AT20030725216T	20030520
	AU2003227771 AA	20031202	AU20030227771	20030520
	CA2486637 AA	20041119	CA20032486637	20030520
	CA2486637 C	20090811	CA20032486637	20030520
	DE60318205 D1	20080131	DE20036018205	20030520
	DE60318205 T2	20090618	DE20036018205T	20030520
	EP1514802 A1	20050316	EP20030725216	20030520
	EP1514802 B1	20071219	EP20030725216	20030520
	ES2223223 AA	20050216	ES20020001144	20020520
	ES2295579 T3	20080416	ES20030725216T	20030520
	US2005178094 AA	20050818	US20040515153	20041119
	US7086427 BB	20060808	US20040515153	20041119
	WO03097464 A1	20031127	WO2003ES00225	20030520
	ZA200409201 A	20050530	ZA20040009201	20041117
	ZA200409201 A	20050727	ZA20040009201	20041117

Probable Assignee: PHILIPS ELECTRONICS KONINKLL NV**Assignee(s):^(std):** BONICH MARTA BRUCART ; BRUCART BONICH MARTA ; MARTA BRUCART
BONICH**Assignee(s):** PHILIPS ELECTRONICS KONINKLL NV**Inventor(s):^(std):** BONICH MARTA BRUCART ; BRUCART BONICH MARTA ; MARTA BRUCART
BONICH**Agent(s):** FETHERSTONHAUGH AND CO; STRIKER STRIKER AND STENBY; MICHAEL J**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO
CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW
HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG
MK ML MN MR MW MX MZ NE NI 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**International class**
(IPC 8-9): [B65B1/04](#) [B65B31/04](#) [B65D81/20](#) (Advanced/Invention);
[B65B1/04](#) [B65B31/04](#) [B65D81/20](#) (Core/Invention);
[B65B](#) [B65D](#) (Subclass/Invention)**International class**
(IPC 1-7): [B65B](#) [B65B31/00](#) [B65B31/04](#) [B65D](#) [B65D81/20](#)**CPC:** [B65B31/047](#) [B65D81/2038](#)**European class:** [B65B31/04E1](#) [B65D81/20B3](#)**US class:** [141/65](#) [141/98](#) [53/320](#) [53/510](#)[Classification Explorer](#)**Cited documents:** US5653352 A, US5540557 A, US5535900 A, US5469979 A, US5031785 A, US4889250 A, US4763803 A, ES2007549 B3, ES2007549,**Forward Citations:** WO08155494, USD735525, US9370791, US8967413, US8646245, US7743796,
US7726356, US2012137631, US2010132831, US2008142470, JP6090243,
JP2016003625, FR2917650, EP3184461, CN104595206, CN102417071,**Abstract:**

Source: US2005178094A The invention relates to a hemi-cannula for tracheotomy patients, comprising a main

tubular body (1.1) which is made from a suitable flexible material and which comprises peripheral end fixing flanges (1.2 and 1.3). One of said flanges (1.2), which is intended to be disposed inside the trachea next to the inner face of same, takes the form of a wing comprising a cylindrical surface with an oblique axis in relation to an axis perpendicular to the main axis of the main body (1.1). The other flange (1.3) takes the shape of a truncated cone comprising a larger outer base. According to the invention, a conduit forming the main tubular body passes through the centre of both of said flanges. The invention is suitable for producing tracheotomy cannulas.

52) Family number: 32571698 (US2008035598A)

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Title: CLOSURE DEVICE FOR A BOTTLE
Priority: AU20040903935 20040716 AU20050263176 20050715 WO2005AU01046 20050715
Family:

Publication number	Publication date	Application number	Application date
AU2005263176 AA	20060126	AU20050263176	20050715
EP1776287 A1	20070425	EP20050760897	20050715
EP1776287 A4	20090408	EP20050760897	20050715
US2008035598 AA	20080214	US20050632989	20050715
WO06007638 A1	20060126	WO2005AU01046	20050715

Probable Assignee: ARGYLE WINE TOOLS PTY LTD
Assignee(s):^(std): ARGYLE WINE TOOLS PTY LTD ; SIMONS DANNY
Inventor(s):^(std): SIMONS DANNY
Inventor(s): DANNY SIMONS
Agent(s): GRIFFITH HACK; MEYERTONS HOOD KIVLIN KOWERT AND GOETZEL PC
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 KP KR KZ LC LI LK LR LS LT LU LV 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

International class
^{(IPC 8-9):} [B65B31/04](#) [B65D47/06](#) [B65D47/32](#) [B65D47/34](#) [F04B7/00](#) (Advanced/Invention);
[B65B31/04](#) [B65D47/04](#) [B65D47/06](#) [B65D47/34](#) [F04B7/00](#) (Core/Invention)

International class
^{(IPC 1-7):} [B65D47/06](#) [B65D47/32](#)

CPC: [B65D47/06](#) [B65D47/32](#) [B01F5/0688](#) [B01F3/04099](#) [B01F2215/0072](#) [B65D47/40](#)
[B65D81/2015](#) [B65D81/2038](#)

European class: [B01F3/04C](#) [B01F5/06F4B](#) [B65D47/40](#) [B65D81/20B1](#) [B65D81/20B3](#) [L01F215/00A86](#)

US class: [215/228](#) [215/307](#) [215/307S](#) [417/510](#) [417/510S](#)

[Classification Explorer](#)

Cited documents: WO03059767 A1, US7561782 BB, US6840373 BB, US6779694 BB, US6769564 BB, US6398076 BA, US6364181 BA, US3189169 A, US3160269 A, US2008124432 AA, US2007062905 AA, US2006000792 AA, US2005184024 AA, US2003029887 AA, US2002153377 AA, FR2742127 A1,

Forward Citations: US9370791, US8978546, US8967413, US8807358, US8413858, US7743796, US2014242241, US2008290062, EP2765089, EP2174881,

Abstract:

Source: US2008035598A A closure device (11) for a bottle comprising an attachment means (14) which attaches to the neck (21) of a bottle and comprises a sleeve portion (33) having an inner surface (20) with a thread configured to engage with an external thread on the neck of the bottle and a main body (25) having a pump portion with a pump (26), whereby the device is able to attach to the bottle by screwing the attachment means onto the bottle neck to enable the pump to be used to extract air from the bottle. In another embodiment instead of a pump, the main body may include a pour portion to assist in pouring of contents of the bottle including a cover portion for covering the opening to the mouth of the bottle.

53) Family number: 45104426 (US2010260954A)

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Title: POLYMER HAVING POLYCYCLIC GROUPS AND COATING COMPOSITIONS THEREOF

Priority: AU20100233173 20100409 AU20140205199 20140723 US20080118224P 20081126
 US20090168138P 20090409 US20100786089 20100524 EP20100713783 20100409
 US20110152055 20110602 US20110267928 20111007 US20110114447 20110524
 US20130732812 20130102 US20130833233 20130315 US20140165679 20140128
 US20140196732 20140304 US20140576870 20141219 WO2010US30584 20100409
 WO2009US65848 20091125 US20140577352 20141219 US20150926390 20151029

Family:

Publication number	Publication date	Application number	Application date
AU2009319797 AA	20100603	AU20090319797	20091125
AU2009319797 BB	20150903	AU20090319797	20091125
AU2010233173 AA	20101014	AU20100233173	20100409
AU2010233173 BB	20140515	AU20100233173	20100409
AU2014205199 AA	20140807	AU20140205199	20140723
AU2014205199 BB	20141211	AU20140205199	20140723
BRPI0920929 A2	20151229	BR2009PI20929	20091125
BRPI1014965 A2	20160823	BR2010PI14965	20100409
CA2758205 AA	20101014	CA20102758205	20100409
CN102264791 A	20111130	CN200980147581	20091125
CN102264791 B	20141022	CN200980147581	20091125
CN102387924 A	20120321	CN201080016058	20100409
CN102387924 B	20141015	CN201080016058	20100409
EP2370490 A1	20111005	EP20090764146	20091125
EP2416962 A1	20120215	EP20100713783	20100409
EP2416962 B1	20160810	EP20100713783	20100409
EP3156228 A1	20170419	EP20160183354	20100409
ES2595990 T3	20170104		00000000
IN07870DN2011 A	20121228	IN2011DN07870	20111013
KR20120016203 A	20120223	KR20117025069	20100409
MX2011005472 A1	20110616	MX20110005472	20091125
MX2011010474 A1	20111017	MX20110010474	20100409
MX338773 B	20160502	MX20110010474	20100409
PL2416962 T3	20170731	PL20100713783T	20100409
US2010260954 AA	20101014	US20100786089	20100524
US2011290696 AA	20111201	US20110152055	20110602
US2012027974 AA	20120202	US20110267928	20111007
US2012125799 AA	20120524	US20110114447	20110524
US2013189463 AA	20130725	US20130732812	20130102
US2013211001 AA	20130815	US20130833233	20130315
US2014138393 AA	20140522	US20140165679	20140128
US2014183088 AA	20140703	US20140196732	20140304
US2015175305 AA	20150625	US20140576870	20141219
US2015175839 AA	20150625	US20140577352	20141219
US2016264722 AA	20160915	US20150926390	20151029
US8367171 BB	20130205	US20110152055	20110602
US8449960 BB	20130528	US20110267928	20111007
US8574672 BB	20131105	US20110114447	20110524

<u>US8663765 BB</u>	20140304	US20130833233	20130315	
<u>US8697210 BB</u>	20140415	US20130732812	20130102	
<u>US8946316 BB</u>	20150203	US20140196732	20140304	
<u>US8946346 BB</u>	20150203	US20140165679	20140128	
<u>US9187212 BB</u>	20151117	US20140576870	20141219	
<u>US9200176 BB</u>	20151201	US20140577352	20141219	
<u>US9663613 BB</u>	20170530	US20150926390	20151029	
<u>WO10062928 A1</u>	20100603	WO2009US65848	20091125	
<u>WO10118356 A1</u>	20101014	WO2010US30584	20100409	
<u>ZA201106704 A</u>	20160428	ZA20110006704	20110913	

Probable Assignee: VALSPAR SOURCING INC

Assignee(s):^(std): DOREAU NICOLAS ; EVANS RICHARD H ; NIEDERST JEFFREY ; PAULSON GREG ; PAULSON GREGORY ; STENSON PAUL ; PROUVOST BENOIT ; VALSPAR SOURCING INC ; SKILLMAN CHARLES ; SHARE PAUL ; SHARE PAUL E ; ROBINSON JAMES ; WIND DONALD G

Inventor(s):^(std): BENOIT PROUVOST ; CHARLES SKILLMAN ; DOREAU NICOLAS ; EVANS RICHARD ; EVANS RICHARD H ; GREGORY PAULSON ; PAUL STENSON ; PAULSON GREG ; PAULSON GREGORY ; PROUVOST BENOIT ; ROBINSON JAMES ; SHARE PAUL E ; SKILLMAN CHARLES ; STENSON PAUL ; WIND DONALD ; WIND DONALD G ; SHARE PAUL ; NIEDERST JEFFREY

Inventor(s): PAUL E SHARE ; RICHARD H EVANS ; NICOLAS DOREAU

Agent(s): WYNNES PATENT AND TRADE MARK ATTORNEYS; SMART AND BIGGAR; VOSSIUS AND PARTNER; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; VALSPAR SOURCING INC; DEMASTER ANDREW; DEMASTER ANDREW A

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 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 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

International class
(IPC 8-9): A23B7/16 B05D1/00 B05D7/22 B21D24/16 B21D51/26 B23P17/00 B23P19/04 B29D22/00 B29D23/00 B32B B32B1/02 B32B1/08 B32B15/08 B32B15/09 B32B27/36 B65D B65D1/12 B65D23/02 B65D23/08 B65D25/14 B65D85/00 C08G C08G18/42 C08G18/66 C08G18/75 C08G18/80 C08G63/137 C08G63/199 C08G63/553 C08J C08J5/18 C08J7/04 C08L C08L67/06 C09D C09D161/10 C09D167/06 C09D175/04 C09D175/06 C09D5/00 C09D5/08 (Advanced/Invention);
C08L61/12 (Advanced/Non-invention);
C08G18/00 C09D175/06 (Core/Invention)

CPC: C08G18/423 C08G18/4238 C08G18/8074 C08L61/06 C09D175/06 C08L2666/16 Y10T29/49982 C08L61/12 C08L2203/10 C08G18/4288 C08G18/6659 C08G18/755 Y10T29/49 Y10T428/1307 Y10T428/1338 Y10T428/1352 Y10T428/139 Y10T428/1393 Y10T428/31551 Y10T428/31605 Y10T428/31678 Y10T428/31681 Y10T428/31692 Y10T428/31696 Y10T428/31786 B65D23/02 B21D24/16 B65D23/0821 B05D1/00 B65D1/12 B65D25/14 C09D5/08 B32B27/365 C08G63/137 C08J5/18 C08G63/553 C09D167/06 Y10T428/1355

European class: C08G18/42B3 C08G18/42C3 C08G18/42M C08G18/66M4 C08G18/75B6C3 C08G18/80H4D C08G63/553 C09D167/06 C09D175/06 C09D5/08 M08L203/10 M08L61/06 M08L61/12

US class: 1/1 206/524.3 206/524.300P 220/626 29/527.2 29/527.200S 29/592 29/592S 413/1 413/18 413/1S 427/238 427/239 427/239S 427/327 428/34.3 428/35.3 428/35.7 428/35.8 428/35.800P 428/36.9 428/36.91 428/423.1 428/425.8 428/457 428/458 428/461 428/462 428/480 523/100 523/100S 524/539 524/539S 524/590 524/590S 524/591 524/600 524/605 524/879 528/298

[Classification Explorer](#)

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US6818151 BB, US6710151 BB, US6512025 BB, US6472480 BA, US6413648 BA, US6306934 BA, US6258897 BA, US6069187 A, US6048949 A, US5962181 A, US5916979 A, US5739215 A, US5693715 A, US5314751 A, US5290828 A, US5288805 A, US5278282 A, US5252682 A, US5242994 A, US5198471 A, US4777196 A, US4631320 A, US4522977 A, US4452954 A, US4443580 A, US4360647 A, US4340519 A, US4206291 A, US4167542 A, US4073827 A, US4010130 A, US3988288 A, US3986992 A, US3965059 A, US3933757 A, US3919063 A, US3867480 A, US3674727 A, US3477996 A, US3448066 A, US3343806 A, US3340327 A, US3333022 A, US3306868 A, US3166434 A, US2013189463 AA, US2012125799 AA, US2012058354 AA, US2012027974 AA, US2011290696 AA, US2010260954 AA, US2010056726 AA, US2010051862 AA, US2010026095 AA, US2009065848 AA, US2008262613 AA, US2008015302 AA, US2007281179 AA, US2007054140 AA, US2006149019 AA, US2006100366 AA, US2006093768 AA, US2005196629 AA, US2005129847 AA, US2005038162 AA, US2005014012 AA, US2004198941 AA, US2004171746 AA, US2004134824 AA, US2004044117 AA, US2003064185 AA, GB1280404 A, EP1627898 A1, EP1498461 A1, EP1474490 B1, EP1474490 A1, EP0780455 A2, EP0583777 A1, EP0548727 A2, DE2245110 A1, CN1803890 A, CN101309944 A, CA2084737 AA, AU654600 B2, AU654600 A1,

Forward Citations: WO16118502, WO16105502, WO15094894, WO15050756, WO15050755, WO14099413, WO14025997, WO14004187, WO13158261, WO13123314, WO13067388, WO11149449, WO11035178, WO11035172, WO11009040, US9745416, US9724276, US9663613, US9650541, US9650539, US9650176, US9598602, US9593195, US9540484, US9487672, US9487619, US9475328, US9409219, US9376590, US9321935, US9290675, US9238750, US9206332, US9200176, US9187673, US9187212, US9109079, US9061798, US9011999, US8946346, US8946316, US8927077, US8840966, US8758862, US8753727, US8747979, US8697210, US8663765, US8574672, US8568863, US8563119, US8562861, US8557371, US8551606, US8551605, US8497013, US8449960, US8367171, US2016244212, US2016145466, US2015125642, US2014371388, US2014076768, US2012171436, US2012164404, US2012164362, US2012156411, US2012156403, US2012045571, RU2600570, KR20150023871, KR101727416, JP6184424, JP6165842, JP2015526549, JP2015520078, JP2015514639, EP3208289, EP3093320, EP2814746, CN105612108, CN105593131, CN105264027, CN104955859, CN104487471, CN104334474, CN104114453, CN103756891, CN103709926, AU2013363474, AU2013280834, AU2010295405,

Abstract:

Source: US2010260954A A polymer and coating composition containing the polymer are provided that are useful in coating applications such as, for example, food or beverage packaging containers. The polymer preferably includes a backbone having one or more polycyclic groups. In one embodiment, the polymer is a polyester and, more preferably, a polyester-urethane polymer. In one embodiment, the one or more polycyclic groups is a tricyclic or higher group.

54) Family number: 28232380 (US2002112502A)

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Title: Beverage bottle container**Priority:** US20000642409 20000821 US20020123651 20020416

Family:	Publication number	Publication date	Application number	Application date
	<u>US2002112502 AA</u>	20020822	US20020123651	20020416
	<u>US6385992 BA</u>	20020514	US20000642409	20000821
	<u>US6574985 BB</u>	20030610	US20020123651	20020416

Probable Assignee: FIORE JOSEPH F**Assignee(s):** FIORE JOSEPH F ; FIORE JR JOSEPH F ; FLORE JR JOSEPH FRANK**Inventor(s):**^(std) FIORE JOSEPH F ; FIORE JR JOSEPH F ; FLORE JR JOSEPH FRANK**International class**
(IPC 8-9): A45F3/18 B65D25/32 B65D81/38 F25D3/08 F25D31/00 (Advanced/Invention)**International class**
(IPC 1-7): F17C13/00 F25B21/00 F25D3/08**CPC:** A45F3/18 B65D25/32 B65D81/3881 B65D81/3883 F25D3/08 F25D31/007
F25D2303/0831 F25D2303/0841 F25D2303/0843 F25D2303/0845 F25D2331/803
F25D2331/804 F25D2331/809**European class:** A45F3/18 B65D25/32 B65D81/38K2 B65D81/38K3 F25D3/08 F25D31/00H2
R25D303/0831 R25D303/0841 R25D303/0843 R25D303/0845 R25D331/803
R25D331/804 R25D331/809**US class:** 62/457.4 62/457.400S 62/457.9 62/457.900P 62/536[Classification Explorer](#)**Cited documents:** US6385992 BA, US5555746 A, US5406808 A, US5325988 A, US5313807 A, US5188877 A, US4961324 A, US4628705 A, US4580412 A, US4413481 A, US4338795 A, US4281520 A, US3998072 A,**Forward Citations:** WO13049296, WO07089143, WO07089143, WO04100708, WO04100708, USD796903, USD655090, USD581152, USD539028, USD538030, US9675530, US9636283, US9504308, US9463908, US9114087, US9085398, US8951947, US8820579, US8314054, US8158566, US8153144, US8147853, US8124573, US8105996, US8104616, US8088721, US8084408, US8084407, US7600656, US7490740, US7032409, US6705110, US6574985, US2014331476, US2012125943, US2011117225, US2011009302, US2010307523, US2009285949, US2008277433, US2008242573, US2007293411, US2007248562, US2007187274, US2007141001, US2007102430, US2006252662, US2006210505, US2006182699, US2006094628, US2006008438, US2005192187, US2005100570, US2005029319, US2005029313, US2004223991, US2004057920, NL1030973, JP2009523995, EP2574867,**Abstract:**

Source: US2002112502A A beverage bottle container includes a pair of rigid, double-walled mating container portions having inner surfaces for engagement with a beverage bottle. Each of the container portions includes a bottom surface, hinge means, and a top surface which defines a bottle neck receiving passageway. The inner surfaces include bottle engagements means in the form of internal projections suitable to engage and otherwise secure beverage bottles of varying shape and size.

55) Family number: 21254712 (US2205567A)

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Title: NONREFILLABLE BOTTLE CLOSURE**Priority:** US19380219329 19380715

Family:	Publication number	Publication date	Application number	Application date
	<u>US2205567 A</u>	19400625	US19380219329	19380715

Probable Assignee: WARREN BUCKLEY**Assignee(s):^(std):** WARREN BUCKLEY**Inventor(s):^(std):** KOLTS TENNIES F

International class B65D49/06 (Advanced/Invention);
 (IPC 8-9): B65D49/00 (Core/Invention)

International class B65D49/02
 (IPC 1-7):

CPC: B65D49/06**European class:** B65D49/06**US class:** 215/22[Classification Explorer](#)**Abstract:**

Source: US2205567A I claim: 1. A nonrefillable bottle closure comprising, a closure casing adapted to be mounted upon the neck of a bottle and having an outlet opening, a valve housing, in said casing having a liquidconducting passage therethrough for conducting liquid from said bottle neck to said outlet opening of the closure casing, a valve in said valve housing, a ball normally urging said valve into position to close said liquid-conducting passage, a ball-retaining cage within said closure casing, said cage having its internal surfaces shaped in the form of a truncated cone located with its axis substantially parallel to but offset laterally from the main or longitudinal axis of the bottle neck when the closure casing is mounted thereon, and the main or longitudinal axis of the valve and valve housing being coincidental with the longitudinal axis of the bottle neck, said ball retaining cage including a side wall intersecting with the conical internal surfaces thereof and lying in a plane parallel to but offset from the axis of said valve housing beyond the axis of said cage and which plane is perpendicular to a plane passing through and at substantially a right angle to the axes of said valve casing and said cage. 2. A nonrefillable bottle closure comprising a closure casing adapted to be mounted upon the neck of a bottle and having an outlet opening, a valve housing in said casing having a liquid conducting passage through which liquid from said bottle neck may flow to said outlet opening, a valve in said housing for closing said passage, a ball normally urging said valve into closed position, and a ball cage in said casing having internal guiding surfaces for said ball including a curved guiding surface formed in the shape of a truncated cone with a flat internal wall intersecting the curved surface of the cone to provide a flat guiding surface of limited area for said ball. 3. A nonrefillable bottle closure adapted to be secured upon the neck of a bottle to prevent refilling of said bottle, said closure comprising a closure casing having an inlet opening adapted to communicate with the neck of the bottle and having a passage from said inlet opening terminating in an outlet opening from said casing, valve means for closing said passage, a ball for closing said valve, and a ball cage for guiding said ball, the internal formation of said ball cage being such that when said bottle is rotated through 360 degrees and is maintained throughout said rotation with the uppermost portion of said outlet opening in substantially the same horizontal plane as the lowermost portion of said inlet opening, the ball will exert a substantial gravity-induced closing force on said valve, and in a slight portion of said rotation will rest on its guide surface which is then located in a horizontal plane so as not to exert a closing force on said valve. 4. A nonrefillable bottle closure comprising a closure casing having securing means permanently attached thereto including a readily frangible element for fastening said casing on a bottle neck in a predetermined relation thereto, said casing having an outlet opening arranged to be parallel to but eccentrically related to the axis of a bottle neck upon which the casing is thus positioned, said outlet opening on the side opposite from said axis being formed with an upwardly and outwardly sloping dome-like surface terminating in a sharp upper edge operable to act as a cut-off to prevent dripping of the liquid as the bottle is returned from a pouring position to an upright position. 5. A nonrefillable bottle closure comprising a valve housing in said casing having an inlet opening at its lower end and provided with an outlet into said closure casing, a valve in said valve housing, a ball for closing said valve, and a ball retaining cage within said casing formed to shield said ball from tampering through said outlet opening, said cage having its internal surfaces shaped in the form of a truncated cone located with its axis between and substantially parallel to said axis of the bottle neck and the axis of said outlet opening, said ball-retaining cage including a side wall intersecting with the conical internal surfaces and lying in a plane parallel to but offset from the axis of said bottle neck and in a plane which is perpendicular to a plane passing through and at a substantially right angle to the axes of the bottle neck and the said cage. 6. A nonrefillable bottle closure comprising a closure casing having means including a readily frangible element for locating and securing said

casing on a bottle neck in a predetermined relation thereto and being formed with an outlet opening arranged to be parallel but eccentrically related to the axis of a bottle neck upon which the casing is thus positioned, said outlet opening on the side opposite from said axis being formed with an inwardly and downwardly sloping pouring surface acting as a out-off to prevent dripping of the liquid as the bottle is returned from a pouring to an upright position, a valve housing in said casing having an inlet opening at its lower end and provided with an outlet into said closure casing, a valve in said valve housing, a ball for closing said valve, and a ball retaining cage within said casing formed to shield said ball from tampering through said outlet opening and formed internally to provide guide surfaces for said ball operable when the bottle is positioned with said axis horizontal to roll said ball against said valve to close said valve in all rotative positions of the bottle about said horizontally positioned axis except when said outlet opening is located substantially beneath said axis

56) Family number: 45439084 (US2011303670A)

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Title: SECURE CLOSURE
Priority: AU20080906377 20081210 AU20090326855 20091209 WO2009AU01598 20091209
Family:

Publication number	Publication date	Application number	Application date
AU2009326855 AA	20100617	AU20090326855	20091209
CA2746068 AA	20100617	CA20092746068	20091209
EP2361197 A1	20110831	EP20090831312	20091209
EP2361197 A4	20121226	EP20090831312	20091209
IN04658DN2011 A	20120420	IN2011DN04658	20110617
JP2012511473 T2	20120524	JP20110539846T	20091209
NZ593323 A	20140228	NZ20090593323	20091209
US2011303670 AA	20111215	US20090133896	20091209
WO10065998 A1	20100617	WO2009AU01598	20091209

Probable Assignee: BAKER RAYMOND

Assignee(s):^(std) BAKER RAYMOND ; BAKER RAYMOND JOHN ; RAYMOND JOHN BAKER

Inventor(s):^(std) BAKER RAYMOND JOHN ; JOHN BAKER RAYMOND

Agent(s): GRIFFITH HACK; OYEN WIGGS GREEN AND MUTALA LLP; DELORME NICOLAS

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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
 (IPC 8-9): [A61J1/00 A61J1/05 A61M5/00 B65D39/04 B65D39/08 B65D41/04 B65D41/32 B65D41/34 B65D43/26 B65D45/00 B65D47/36 B65D50/00 B65D51/18 B65D51/20](#) (Advanced/Invention); [A61J1/00 A61M5/00 B65D39/00 B65D41/32 B65D47/00 B65D50/00](#) (Core/Invention)

CPC: [B65D41/3447 A61J1/1475 A61J1/18 B65D41/0471 B65D41/3409 B65D47/36 B65D51/002 B65D51/18 B65D51/20 B65D55/022 B65D2251/0015 B65D2251/0025 B65D2251/0075 B65D2251/009 A61J1/1468 A61J1/1418](#)

European class: [A61J1/14C A61J1/14P A61J1/18 B65D41/04E B65D41/34A1 B65D41/34D1 B65D47/36 B65D51/00B B65D51/18 B65D51/20 B65D55/02D K61J1/14C2 K61J1/14M L65D251/00Y2D L65D251/00Y2J L65D251/00Y6B L65D251/00Y6K](#)

US class: [220/254.9 220/254.900S 220/257.1 220/257.100P 220/258.3 220/258.300S 220/285 220/285S 220/328 220/328S](#)

[Classification Explorer](#)

Cited documents: US6050435 A, US6024235 A, US5992659 A, US5913434 A, US5823373 A, US5257724 A, US4821898 A, US4747498 A, US4533058 A, US4281778 A, US3871545 A, US2906423 A, JP56106759 A2, GB2068911 A1, EP1105319 A1,

Forward Citations: WO15073891, WO14118628, WO13118158, US9694945, US9517922, US9095667, US8893907, US2016137474, US2015129610, US2014076896, US2013237911, ITTO20120110, CN104520205, CN104443724,

Abstract:

Source: US2011303670A A cap for closing a container comprising an openable access port located at or towards one end of the cap through which contents of the container can be dispensed when the access port is in an opened condition, an internal wall surface for engaging with one or more parts of an external surface of the container, a first part of a securing means located on the internal wall surface of the cap, the first part of the securing means for cooperatively engaging with second part of the securing means located on the external surface of the container to prevent removal of the cap from the container when the cap is located in a sealing condition on the container thereby preventing removal of the cap from the container, in that the engaging elements form a ratchet arrangement or a ratchet and pawl like arrangement allowing rotational movement of the cap with respect to the container in one direction only.

57) Family number: 12151513 (US6041982A)

© PatBase

Title: Beverage container with cap and spout**Priority:** CA20002297521 20000131 US19990248240 19990210

Family:	Publication number	Publication date	Application number	Application date
	<u>AR022489 AA</u>	20020904	AR2000P100466	20000203
	<u>BRPI0000337 A</u>	20000926	BR2000PI00337	20000208
	<u>CA2297521 AA</u>	20000810	CA20002297521	20000131
	<u>CL2000000260 A1</u>	20010103	CL20000000260	20000204
	<u>CN1103720 C</u>	20030326	CN20001004184	20000210
	<u>CN1264673 A</u>	20000830	CN20001004184	20000210
	<u>CZ200000468 A3</u>	20011114	CZ20000000468	20000208
	<u>EP1027849 A2</u>	20000816	EP20000300929	20000207
	<u>EP1027849 A3</u>	20050202	EP20000300929	20000207
	<u>HK1029972 A1</u>	20030801	HK20010100501	20010119
	<u>HR200000072 A2</u>	20010228	HR20000000072	20000209
	<u>HU0000560 A0</u>	20000428	HU20000000560	20000209
	<u>HU0000560 AB</u>	20011228	HU20000000560	20000209
	<u>HU0000560 AC</u>	20031128	HU20000000560	20000209
	<u>IL134331 A0</u>	20010430	IL20000134331	20000202
	<u>IL134331 A1</u>	20030112	IL20000134331	20000202
	<u>JP2000229657 A2</u>	20000822	JP20000033707	20000210
	<u>JP3459391 B2</u>	20031020	JP20000033707	20000210
	<u>KR100393154 B1</u>	20030731	KR20000006140	20000210
	<u>KR20000057993 A</u>	20000925	KR20000006140	20000210
	<u>PL338326 A1</u>	20000814	PL20000338326	20000209
	<u>US6041982 A</u>	20000328	US19990248240	19990210
	<u>ZA200000546 A</u>	20000907	ZA20000000546	20000207

Probable Assignee: DART IND INC**Assignee(s):^(std):** DART IND INC ; DART IND INC ORLANDO ; KRAFT INC**Assignee(s):** DART INDUSTRIES INC ORLANDO FLORIDA ; BACKAERT DIMITRI M C J ; CAUTEREELS VICTOR J J ; DART IND**Inventor(s):^(std):** BACKAERT DIMITRI M C J ; CAUTEREELS VICTOR J J ; KAUTERILS VICTOR J J ; VACEREUTEUDIMITEURI M C J ; KOUTRILES V J J ; CAUTERAELS VICTOR J J ; BAKLTER D M C J**Inventor(s):** BACKAERT DIMITRI MCJ ; BACKAERT DIMITRI ; DIMITRI MCJ BACKAERT ; DIMITRI M C J BACKAERT ; D M C J BAKLTER ; CAUTEREELS VICTOR JJ ; CAUTEREELS VICTOR BACKAERT DIMITRI ; CAUTEREELS VICTOR ; VICTOR JJ CAUTERAELS ; VICTOR J J CAUTEREELS ; VICTOR J J CAUTERAELS ; V J J KOUTRILES**Agent(s):** GOWLING LAFLEUR HENDERSON LLP; SARGENT; REINHOLD COHN AND PARTNERS**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

International class [B65D25/40 B65D25/48 B65D41/56 B65D47/00 B65D47/06 B65D51/00](#)
^{(IPC 8-9):} [B65D51/16](#) (Advanced/Invention);
[B65D47/00](#) (Advanced/Non-invention);
[B65D25/38 B65D41/32 B65D47/00 B65D51/00 B65D51/16](#) (Core/Invention)

International class [A47G19/22 B65D B65D1/00 B65D25/40 B65D25/48 B65D41/06 B65D41/56 B65D47/00](#)
^{(IPC 1-7):} [B65D47/06 B65D51/00 B65D51/18 B65D51/24 B65D6/00 B65D83/14 B65D85/72](#)
[B67C3/00](#)

CPC: B65D25/48 B65D51/1688

European class: B65D25/48 B65D51/16E3

US class: 215/307 220/366.1 222/562 222/568 222/573

[Classification Explorer](#)

Cited documents: USD395783, US5899349 A, US5871128 A, US5785196 A, US5551608 A, US5533633 A, US4763804 A, US4623076 A, US3628704 A, DE3906322 A1,

Forward Citations: WO13004986, WO0192133, USD747649, USD747199, US8857644, US8827097, US8322553, US7107783, US6935536, US6443336, US2013276413, US2012305608, US2011168708, US2010147848, US2010126992, US2008302797, US2008156802, US2008029557, US2007062947, US2005263480, US2005263479, US2004237379, US2004173556, US2004108336, US2004007553, US2003000907, GB2507885, GB2507885, CN105253446, CN102874474, CN102689733,

Abstract:

Source: US6041982A A beverage container having a base and a cap threaded thereto, and which may be used with a spout mounted to the container mouth. The cap includes a shoulder section having a rim contact section to seal to the container upper rim when the spout is not employed. The shoulder section also includes a spout contact section having a cam surface. The spout includes a follower ridge which is engaged by the cam surface to retain the spout in position as the cap is rotated for removal. This permits the spout to vent any accumulated pressure from a stored carbonated beverage, and thus prevents the spout from being disengaged from the base due to the accumulated pressure.

58) Family number: 25354261 (US4364483A)

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Title: CHILD PROOF SCREW CAP

Priority: DE19803001512 19800117 DE19803038301 19801010 DE19813126846 19810708
 DE19813103414 19810202 DE19813110152 19810316 DE19813118592 19810511

Family:	Publication number	Publication date	Application number	Application date
	DE3001512 A1	19810723	DE19803001512	19800117
	DE3001512 C2	19830825	DE19803001512	19800117
	DE3038301 A1	00000000		00000000
	DE3126846 A1	19820909	DE19813126846	19810708
	FR2478032 A1	19810918	FR19810000510	19810114
	FR2478032 B1	19850517	FR19810000510	19810114
	FR2509262 A1	19830114	FR19820011455	19820630
	FR2509262 B3	19840810	FR19820011455	19820630
	GB2069984 A1	19810903	GB19810001390	19810116
	GB2069984 B2	19830824	GB19810001390	19810116
	GB2104880 A1	19830316	GB19820019780	19820708
	GB2104880 B2	19850522	GB19820019780	19820708
	IT1152425 A	19861231	IT19820022192	19820701
	IT8222192 A0	19820701	IT19820022192	19820701
	JP58001659 A2	19830107	JP19820040640	19820315
	US4364483 A	19821221	US19810282235	19810710

Probable Assignee: GOLDE E**Assignee(s):**^(std) ERITSUHI GORUDE ; GOLDE E ; GOLDE ERICH ; GOLDE ERICH DIPL ING**Assignee(s):** GOLDE ERICH DIPL ING 3280 BAD PYRMONT DE ; ERICH GOLDE**Inventor(s):**^(std) GOLDE ERICH DIPL ING ; GOLDE ERICH ; ERITSUHI GORUDE**Inventor(s):** ERICH GOLDE ; GOLDE ERICH DIPL ING 3280 BAD PYRMONT DE

International class [B65D41/04](#) [B65D41/62](#) [B65D50/04](#) [B65D50/06](#) ^(Advanced/Invention);
^(IPC 8-9) [B65D41/00](#) [B65D41/04](#) [B65D50/00](#) ^(Core/Invention)

International class [B29D1/00](#) [B29D23/02](#) [B65D41/04](#) [B65D41/08](#) [B65D41/62](#) [B65D55/02](#) [B65D55/12](#)
^(IPC 1-7)

CPC: [B65D50/048](#) [B65D50/06](#) [B29B2911/14446](#)**European class:** [B65D50/04F4](#) [B65D50/06](#)**US class:** [215/218](#)[Classification Explorer](#)**Cited documents:** US3648872 A, US3526332 A, US3516563 A, US3514003 A,

Forward Citations: WO07145781, WO05009860, USRE39340, USD597410, US8365933, US8051999, US7958703, US7918360, US7866497, US7621413, US6408904, US6123122, US6032812, US5687865, US5662231, US5597083, US5513763, US2013240393, US2009223985, US2009223967, US2009152230, JP61239916, JP61069421, JP60208213, JP59192315, EP0285433, CN102803089, CN102803089,

Abstract:

Source: US4364483A A child-proof screw-cap for containers having outer threads on the neck. The screw-cap has an inner thread which screws onto the outer thread of the neck and it is opened by an axial pressure in addition to a rotational pressure. The inside wall of the closure cap (1) has a plurality of stakes (3) extending parallel to the closure axis and joined by a common cover plate (2) actuatable from above. The stakes are guided in grooves (5) on the inside of the cap and are provided with threads 3a. Clearances (6) are provided in the outer threads and these clearances have a width greater than the stakes. At least one set of threads 3a of the stakes

must be brought into mesh with the outer threads by axial pressure when the stake passes a clearance (6) and a stop is provided at the bottom of a clearance at the closed position to reverse the thrust of the axial pressure to demesh the threads and prevent turning.

59) Family number: 31450040 (US3296680A)

© PatBase

Title: Apparatus for treating and advancing filamentary material

Priority: CH19640012320 19640922 DE1964M062518 19640922 FR19640988553 19640918
 GB19640036652 19640907 US19640380757 19640707 LU19640046981 19640919
 GB19630037847 19630926 GB19650027032 19640907

Family:	Publication number	Publication date	Application number	Application date
	<u>AT255637 B</u>	19670710	AT19640008228	19640925
	<u>AU4931164 A1</u>	19660317	AU19640049311	19640915
	<u>BE653627 A</u>	19650325		00000000
	<u>CH429012 A</u>	19670131	CH19640012468	19640925
	<u>CH455895 A</u>	19680515	CH19640012320	19640922
	<u>DE1486192 A1</u>	19690403	DE19651486192	19650701
	<u>DE1496192 A1</u>	19690327	DE19641496192	19640922
	DE1496192 B2	19701105	DE19641496192	19640922
	<u>DE1966793 U</u>	19670824	DE1964B059114U	19640921
	<u>ES304434 A1</u>	19650316	ES19640304434	19640926
	<u>FI41984 B</u>	19691231	FI19640002031	19640924
	<u>FI41984 C</u>	19700410	FI19640002031	19640924
	<u>FR1440358 A</u>	19660527	FR19650023175	19650701
	<u>FR1447963 A</u>	19660805	FR19640988553	19640918
	<u>GB1036869 A</u>	19660720	GB19650025961	19650618
	<u>GB1050429 A</u>	19661207	GB19640036652	19640907
	<u>GB1050430 A</u>	19661207	GB19650027032	19640907
	<u>GB1082452 A</u>	19670906	GB19630037847	19630926
	<u>IL22112 A1</u>	19680125	IL19640022112	19640918
	<u>LU46381 A</u>	19720101		19640624
	<u>LU46981 A</u>	19641119		19640919
	<u>LU46987 A</u>	19641121		19640921
	<u>NL6411128 A</u>	19650329	NL19640011128	19640924
	<u>NO119190 B</u>	19700406	NO19640154808	19640918
	<u>US3241209 A</u>	19660322	US19640380757	19640707
	<u>US3296680 A</u>	19670110	US19640396176	19640914

Probable Assignee: BRITISH NYLON SPINNERS LTD

Assignee(s):^(std): ALLIED CHEM ; BRITISH NYLON SPINNERS LTD ; ICI LTD ; MALLORY BATTERIES LTD

Assignee(s): IMP CHEMICAL IND LTD ; ALLIED CHEMICAL CORP

Inventor(s):^(std): FREDERICK THOMAS JAMES ; IWNICKI K ; IWNICKI KURT ; JAMES FREDERICK THOMAS ; KURT IWNICKI ; ROBERT TAYLOR JOHN ; RUBEN SAMUEL ; SAMUEL RUBEN ; TAYLOR JOHN R ; THOMAS J ; THOMAS JAMES FREDERICK

Inventor(s): KURT JANICKI AND JAMES FREDERICK THOMAS

International class
^{(IPC 8-9):} B65D1/02 B65D23/08 B65D25/16 B65D77/04 B65H51/20 D02G1/12 H01M10/24 H01M10/36 H01M4/02 H01M4/64 (Advanced/Invention)

International class
^{(IPC 1-7):} B65D23/08 B65D55/02 D01D D02G1/12 D02G1/20 G06F19/00 G06K9/03 H01M35/03

CPC: D02G1/12 B65D1/0223 B65D23/0885 B65D2501/0036 H01M10/36 H01M4/02 H01M4/64 H01M10/24

European class:

B65D1/02D B65D23/08F D02G1/12 H01M10/24 H01M10/36 H01M4/02 H01M4/64
L65D501/02Y1C Y02E60/12D

US class: 215/13.1 28/250

Classification Explorer

Cited documents: US3217482 A, US3108352 A, US3096562 A, US3070250 A, US2920799 A, US2760252 A, GB776218 A, FR1293579 A, BE547883 A, AU214707,

Forward Citations: WO16101943, USD588361, US7669725, US4908919, US4880119, US4566690, US4546529, US4501710, US4462143, US4345617, US4301578, US4095318, US3902231, US3900121, US3782889, US3667702, US3425106, US3337930, US2013277326, US2010102019, US2007142188, US2005056610, GB2152468, FR2903973, FR2772730, EP0926079, EP0381157, DE2632082, DE2035212, DE102014019509, DE102014019509, CN104260971, CN104260971,

Abstract:

Source: GB1036869A 1,036,869. Bottle assembly. ALLIED CHEMICAL CORPORATION. June 18, 1965 [July 7. 1964], No. 25961/65. Heading B8D. A bottle of breakable material e.g. porcelain, ceramic material or glass, has a protective casing 6, Fig. 1 (not shown), the bottle neck being held in an annular sealing ring flanged externally to fit an opening in the top of the casing 6 and internally to engage the bottle neck below a bead 5 formed on the neck. A metal cap 16 forms a push-fit over a screw cap on the bottle and engages a vertical face of the sealing ring. A lining 8 of corrugated fibreboard lies between the bottle and casing which is of metal e.g. steel or aluminium; alternatively the lining may be of felt, cotton or foam plastics. The sealing ring may be thermoplastic, e.g. polyethylene, p.v.c., polytetrafluorethylene, polychlorotrifluorethylene, polypropylene or rubber.

Title: DRINKING FITMENT**Priority:** GB20050026014 20051222 WO2006GB50464 20061219

Family:	Publication number	Publication date	Application number	Application date
	AT458678 E	20100315	AT20060820689T	20061219
	AU2006327966 AA	20070628	AU20060327966	20061219
	CA2633614 AA	20080613	CA20062633614	20061219
	CN101331070 A	20081224	CN200680047716	20061219
	DE602006012545 D1	20100408	DE200660012545T	20061219
	EP1966059 A1	20080910	EP20060820689	20061219
	EP1966059 B1	20100224	EP20060820689	20061219
	ES2339597 T3	20100521	ES20060820689T	20061219
	GB200526014 A0	20060201	GB20050026014	20051222
	GB2433496 A1	20070627	GB20050026014	20051222
	GB2433496 B2	20071121	GB20050026014	20051222
	JP2009520656 T2	20090528	JP20080546641T	20061219
	NZ569099 A	20100226	NZ20060569099	20061219
	PT1966059 T	20100322	PT20060820689T	20061219
	RU2008129891 A	20100127	RU20080129891	20061219
	US2009308832 AA	20091217	US20060158660	20061219
	WO07072076 A1	20070628	WO2006GB50464	20061219
	ZA200805339 A	20090826	ZA20080005339	20061219

Probable Assignee: BAPCO CLOSURES RESEARCH LTD**Assignee(s):^(std):** BAPCO CLOSURES RES LTD ; MCGEOUGH PETER ; VON SPRECKELSEN HENNING**Assignee(s):** BAPCO CLOSURES RESEARCH LIMITED ; BAPCO CLOSURES RESEARCH LTD**Inventor(s):^(std):** HENNING VON SPRECKELSEN ; MCGEOUGH PETER ; MICHAEL MCGEOUGH PETER ; PETER MCGEOUGH ; SPRECKELSEN HENNING VON ; VON SPRECKELSEN HENNING ; VON SPRECKELSON HENNING ; SPRECKELSON HENNING VON ; MCGEOUGH PETER MICHAEL**Inventor(s):** HENNING VON SPRECKELSON ; PETER MICHAEL MCGEOUGH**Agent(s):** ALLENS ARTHUR ROBINSON PATENT AND TRADE MARKS ATTORNEYS; ALLENS PATENT AND TRADE MARK ATTORNEYS; GOWLING LAFLEUR HENDERSON LLP; COOKSON BARBARA ELIZABETH; CHRISTOPHER J KULISH PC**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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**International class**
(IPC 8-9): [B65D41/00](#) [B65D41/48](#) [B65D41/58](#) [B65D47/06](#) [B65D47/08](#) [B65D47/20](#) (Advanced/Invention);
[B65D41/00](#) [B65D41/32](#) [B65D47/04](#) [B65D47/06](#) [B65D47/08](#) (Core/Invention);
[B65D](#) (Subclass/Invention)**CPC:** [B65D47/0804](#) [B65D2101/0023](#) [B65D2251/20](#) [B65D47/08](#) [B65D2547/06](#)**European class:** [B65D47/08](#) [B65D47/08B](#) [L65D101/00A3](#) [L65D251/20](#) [L65D547/06](#)**US class:** [215/235](#) [215/316](#)[Classification Explorer](#)**Cited documents:** WO03051734 A1, US7578040 BB, US7537141 BA, US7419069 BB, US6877630 BB, US6334555 BA, US743443 A, US5348184 A, US5054641 A, US4917267 A, US4537318

A, US4043475 A, US3363811 A, US2007267383 AA, US2007095834 AA, US2007029353 AA, US2007029352 AA, US2006289376 AA, US2005116382 AA, GB2406851 A1, EP1582475 A1,

DE102004045511 B3

Forward Citations: WO17053427, USD778725, USD757543, US9663277, US8931243, US2011283665, US2011108551, US2010107568, KR101576734, JP2014210613, GB2447661,

Abstract:

Source: US2009308832A A low-cost sportscap (2) has a nozzle (6) defining a drinking orifice. The nozzle is assembled from below into an outer shell (4) which is moulded as one piece and includes an overcap (16) and a base (14). A foil annulus (8) is used to seal a coupling part (50) of the nozzle to the outer shell (4) and also preferably to provide a mechanism by means of which the closure can be assembled to a container neck (10). A primary ex-factory seal is created by a valve (42) inside the overcap engaging with the drinking orifice. This can be resealed by the user when the overcap (16) is attached to the base by hinge means (32).

61) Family number: 23906340 (US2003209546A)

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Title: DEPRESSURIZING PUMP ASSEMBLIES AND CLOSURES FOR BEVERAGE CONTAINER

Priority: CA20022391771 20020625 US20010300320P 20010622 US20020178944 20020624

Family:	Publication number	Publication date	Application number	Application date
	<u>AU200248920 A1</u>	20030102	AU20020048920	20020624
	<u>AU200248920 A5</u>	20030102	AU20020048920	20020624
	<u>AU783809 B2</u>	20051208	AU20020048920	20020624
	<u>CA2391771 AA</u>	20021222	CA20022391771	20020625
	GB200214464 A0	20020731	GB20020014464	20020624
	<u>GB2378697 A1</u>	20030219	GB20020014464	20020624
	<u>GB2378697 B2</u>	20040929	GB20020014464	20020624
	<u>JP2003175960 A2</u>	20030624	JP20020182936	20020624
	<u>JP4213410 B2</u>	20090121	JP20020182936	20020624
	<u>US2003209546 AA</u>	20031113	US20020178944	20020624
	<u>US6935524 BB</u>	20050830	US20020178944	20020624

Probable Assignee: JOKARI US INC**Assignee(s):**^(std) JOKARI US INC ; WILHITE GERALD**Inventor(s):**^(std) GERALD WILHITE ; WILHITE GERALD D ; WILHITE GERALD**Inventor(s):** GERALD D WILHITE**Agent(s):** JOHN CHRISTIANSEN; FINLAYSON AND SINGLEHURST; GILHOOLY EDWARD D; EDWARD D

International class
 (IPC 8-9): B65B31/04 B65D39/00 B65D47/34 B65D51/24 F04B33/00 F04B45/04
F04B9/14 (Advanced/Invention);
B65D51/24 (Advanced/Non-invention)

International class
 (IPC 1-7): B05B11/00 B05C17/005 B65B31/04 B65D39/00 B65D47/34 B65D51/16 B65D51/24
B67B1/00 F04B33/00 F04B45/02 F04B45/04 F04B9/14

CPC: B65B31/047 F04B33/00 F04B45/04**European class:** B65B31/04E1 F04B33/00 F04B45/04**US class:** 141/64 215/228 220/212[Classification Explorer](#)

Cited documents: US6637321 BB, US6409033 BA, US6352165 BA, US5823372 A, US5779082 A, US4889250 A, US4763803 A, US4640426 A, US4033091 A, US3602387 A, US2680477 A, GB2298639 A1, GB2220231 A1,

Forward Citations: WO15141259, US8720163, JP6090242, JP2016003624,**Abstract:**

Source: US2003209546A An assembly for depressurizing an opened beverage bottle including a bottle closure having a valve to permit depressurization of the bottle by a removable pump assembly. The pump assembly includes a stretchable diaphragm having roller being moveable on tracks within a housing. A pivotal actuator stretches the diaphragm to cause expansion of diaphragm chamber and effect depressurization of the bottle through the closure valve.

62) Family number: 24975225 (US3140571A)

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Title: METHOD OF SEALING PLASTIC CONTAINERS AND BOTTLES
Priority: DE1958A029831 19580704 DE1960A034025 19600220 FR19610853177 19610218
Family:

Publication number	Publication date	Application number	Application date
CH370232 A	19630630	CH19590073843	19590601
CH398060 A	19650831	CH19610001930	19610217
DE1141774 B	19621227	DE1958A029831	19580704
FR1231919 A	19601004	FR19590798999	19590701
FR79247 E	19621109	FR19610853177	19610218
GB859554 A	19610125	GB19590021342	19590622
GB958391 A	19640521	GB19610006235	19610220
US3140571 A	19640714	US19610088529	19610210

Probable Assignee: AGFA AG
Assignee(s):^(std): AGFA AG
Assignee(s): AGFA AKTIENGESELLSCHAFT
Inventor(s):^(std): DORPER WILLI ; MARKS DR ING HERMANN ; MARKS HERMANN ; MARKS HERMANN DR ; RAUH WOLFGANG ; WILLI DOERPER ; WILLI DORPER ; WOLFGANG RAUH

Inventor(s): DOERPER WILLI

International class
 (IPC 8-9): [B29B13/02](#) [B29C57/10](#) [B29C65/10](#) [B29C65/14](#) [B65B51/20](#) (Advanced/Invention);
[B29C35/04](#) (Advanced/Non-invention);
[B29B13/00](#) [B29C57/00](#) [B29C65/10](#) [B29C65/14](#) [B65B51/20](#) (Core/Invention);
[B29C35/04](#) (Core/Non-invention)

International class
 (IPC 1-7): [B29C19/02](#) [B29C27/02](#) [B65B51/20](#) [B65D1/02](#) [B67B3/00](#)

CPC: [B29C65/10](#) [B29L2023/22](#) [B65B51/20](#) [B29B13/025](#) [B29C35/045](#) [B29C57/10](#) [B29C65/103](#)
[B29C65/1432](#) [B29C66/1122](#) [B29C66/83221](#) [B29L2031/7158](#) [B29C66/43121](#) [B29C66/43](#)
[B29C66/73921](#)

European class: [B29B13/02D2B](#) [B29C57/10](#) [B29C65/10](#) [B29C65/10A](#) [B29C65/14](#) [B29C65/14D2](#)
[B29C66/1122](#) [B29C66/43](#) [B65B51/20](#) [L29C35/04C](#) [L29C65/14D2](#) [L29L23/22](#) [L29L31/7158](#)

US class: [53/373.8](#) [53/374.8](#) [53/477](#)

[Classification Explorer](#)

Cited documents: US3035958 A, US2982074 A, US2935831 A, US2929182 A, US2928219 A, US2926474 A, US2715087 A, US2423237 A, US2156441 A, DE906914 A, CH266714 A,

Forward Citations: WO9006260, US7810670, US7354495, US6565793, US6485668, US6190598, US6171423, US5786572, US5573043, US5481853, US5409124, US4957581, US4511426, US4338765, US4262708, US3531908, US3432982, US3309841, US3111447, US2005126705, JP2138103, JP2138102, GB2134037, EP0373731, DE3744402, DE3448188, DE3442187, DE3401959, DE3140943, DE1270476, DE102013014484,

Abstract:

Source: GB859554A 859,554. Seaming non-metallic sheet materials. AGFA A.G. June 22, 1959 [July 4, 1958], No. 21342/59. Class 42 (1). [Also in Group XVII] The neck of a plastic bottle and c. is sealed by introducing into it a heating device 3 which does not come into contact with the neck, withdrawing the device when the internal surface of the neck is at melting point and sealing by jaws 4. The device 3 may comprise a pipe 5 and apertured cylinder 6 through which hot gas is blown on to the neck surface. The gas may be inert to exclude air from the container. The jaws may emboss an identification mark on the container during sealing.

63) Family number: 16972875 (US4662530A)

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Title: Bottle and closure having positioning catches**Priority:** FR19840015590 19841011

Family:	Publication number	Publication date	Application number	Application date
	<u>DE0179706 T1</u>	19870115	DE19850401951T	19851007
	<u>DE3561589 D1</u>	19880317	DE19853561589	19851007
	<u>EP0179706 A1</u>	19860430	EP19850401951	19851007
	<u>EP0179706 B1</u>	19880210	EP19850401951	19851007
	<u>ES289511 U</u>	19860301	ES19850289511U	19851010
	<u>ES289511 Y</u>	19861001	ES19850289511U	19851010
	<u>ES289511 Y1</u>	19861103	ES19850289511U	19851010
	<u>FR2571696 A1</u>	19860418	FR19840015590	19841011
	<u>FR2571696 B1</u>	19870220	FR19840015590	19841011
	<u>JP3019859 U1</u>	19910227	JP19900077486U	19900723
	<u>JP61115847 A2</u>	19860603	JP19850226668	19851011
	<u>US4662530 A</u>	19870505	US19850783548	19851003

Probable Assignee: OREAL**Assignee(s):^(std):** OREAL**Assignee(s):** L OREAL ; L OREAL PARIS FR ; L OREAL SA**Inventor(s):^(std):** ANTONAN GONKARUBU ; ANTONIN GONCALVES ET FRANCOIS BIGOTTE ; FURANSHISU BIGOTSUTO ; GONCALVES ANTONIN L ; GONCALVES ANTONIN ; BIGOTTE FRANCOIS**Inventor(s):** BIGOTTE FRANCOIS F 78110 LE VESINET FR ; GONCALVES ANTONIN F 95410 GROSLAY FR**Designated states:** BE CH DE GB IT LI NL**International class**
(IPC 8-9): [B65D41/04](#) (Advanced/Invention) ;
[B65D41/04](#) (Core/Invention)**International class**
(IPC 1-7): [B65D41/04](#) [B65D41/08](#) [B65D55/02](#)**CPC:** [B65D41/04](#) [B65D41/0471](#) [B65D2251/065](#) [B65D2501/0081](#)**European class:** [B65D41/04](#) [B65D41/04E](#) [L65D251/06B](#) [L65D501/02Y9](#)**US class:** [215/31](#) [215/330](#) [215/331](#) [215/44](#)[Classification Explorer](#)**Cited documents:** US4387822 A, US4310101 A, US4093096 A, JP56018349 B4, JP49043370 B4, GB2126565 A1, FR2036272 A5, EP0085003 A1, EP0007274 A1, CH455545 A,**Forward Citations:** WO17162560, WO09002717, WO07094907, US8365933, US8302792, US8123058, US8079483, US8028848, US7958703, US7621413, US6871752, US6431381, US5992656, US5769254, US5690241, US5687863, US5454476, US5445466, US5411157, US5213225, US5186344, US5160057, US5147053, US5143234, US4991733, US2015375886, US2011056947, US2010294813, US2010206877, US2010059519, US2007284331, US2006273063, US2003146183, JP6041921, JP2015182818, GB2261656, GB2261656, FR2796363, FR2796362, ES2143908, ES2134694, EP1069052, EP1069046, EP0812777,**Abstract:**

Source: US4662530A The stoppering device comprises an internally threaded stopper and an externally threaded bottle neck, the bottle neck being provided with a flange situated axially between on the one hand the lower end of the thread of the neck and on the other hand the body of the bottle proper, the bottle neck comprising on this flange at least two radially outwardly projecting catches of which one constitutes an orientation stop and the other a lobe to prevent unscrewing. The stopper comprises at least one catch made of a slightly deformable substance

which, after screwing down, becomes accommodated between the two catches of the bottle neck. The orientation stop and the lobe to prevent unscrewing have different shapes, and the orientation stop extends along a direction parallel to the axis of the bottle neck over an axial extent which is greater than that of the flange and the orientation stop projects in relation this flange on the opposite side from the thread.

64) Family number: 28832050 (US5803288A)

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Title: Cap for bottles having resiliently biased seal member
Priority: CA19962173289 19960402 IT1995UD00060 19950406
Family:

Publication number	Publication date	Application number	Application date
AU199650355 A1	19961017	AU19960050355	19960327
AU702741 B2	19990304	AU19960050355	19960327
CA2173289 AA	19961007	CA19962173289	19960402
DE69604959 D1	19991209	DE19966004959	19960321
DE69604959 T2	20000518	DE19966004959T	19960321
DK0736461 T3	20000110	DK19960104490T	19960321
EP0736461 A1	19961009	EP19960104490	19960321
EP0736461 B1	19991103	EP19960104490	19960321
ES2138256 T3	20000101	ES19960104490T	19960321
ITUD950060 A0	19950406	IT1995UD00060	19950406
ITUD950060 A1	19961007	IT1995UD00060	19950406
ITUD950060 A3	19961007	IT1995UD00060	19950406
US5803288 A	19980908	US19960626331	19960402

Probable Assignee: MICROSTAMP SRL

Assignee(s):^(std): MICROSTAMP S R L ; MICROSTAMP SRL

Assignee(s): MUNINI DINO ; MICROSTAMP SRL VIA G MARCONI ; MICROSTAMP S R L S QUIRINO

Inventor(s):^(std): MUNINI DINO ; DINO MUNINI

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GOUDREAU GAGE DUBUC

Designated states: CH DE DK ES FR GB IT LI NL

International class [B65D41/30](#) [B65D45/02](#) [B65D45/32](#) (Advanced/Invention);
^{(IPC 8-9):} [B65D45/00](#) (Core/Invention)

International class [B65D41/02](#) [B65D41/16](#) [B65D41/18](#) [B65D41/30](#) [B65D45/02](#) [B65D45/32](#) [B65D53/00](#)
^{(IPC 1-7):}

CPC: [B65D45/02](#) [B65D45/325](#)

European class: [B65D45/02](#) [B65D45/32A1](#)

US class: [215/275](#) [215/342](#)

[Classification Explorer](#)

Cited documents: US4280632 A, US3716161 A, US3457958 A, US320715 A, US2050754 A, US1425237 A, IT430334 A, FR2662427 A1, FR2547281 A1, FR2543557 A1, FR2534557 A3, FR2476608 A1, EP0247536 A2, DE360756 A, DE2726428 A1,

Forward Citations: WO9918003, WO14173556, WO12106666, WO0070998, US9422089, US8292532, US6276545, US6213323, US6149022, US2010104345, US2008281280, US2004206721, GB2500354, GB2500354, FR2907765, FR2789053, EP3002228, DE102014014110, DE102013207551,

Abstract:

Source: US5803288A Cap of a type suitable to be used for the momentary closure of bottles containing gaseous or aerated liquids, the cap comprising an outer sheath (13, 113) open at its lower end, within which is installed a longitudinally slidable supporting and closure element (14) including at its lower end a seal (15) which is rested on the mouth (12) of the bottle. The supporting and closure element (14) cooperates at its upper end with resilient thrust elements (16) firmly secured to the outer sheath (13, 113) and also comprising anchorage legs (18, 118) which can be deformed resiliently in a radial direction and which bear terminal claw elements (19, 119), the anchorage legs (18, 118) cooperating with a clamp having at least one first working position, in which the cap (10) is anchored to the bottle, and a second inactive position, in which the cap is free to be withdrawn from the bottle.

The clamp has coordinated projections (22, 122) which can be arranged circumferentially against the anchorage legs (18, 118), the projections (22, 122) cooperating momentarily with the anchorage legs (18, 118) so as to clamp the same against the neck (11) of the bottle.

Title: GOOSENECK SQUEEZABLE DISPENSER**Priority:** CA20062538720 20060307 US20050084181 20050321

Family:	Publication number	Publication date	Application number	Application date
	<u>CA2538720 AA</u>	20060921	CA20062538720	20060307
	<u>CA2538720 C</u>	20120814	CA20062538720	20060307
	<u>MXPA06003213 A1</u>	20070208	MX2006PA03213	20060322
	<u>US2006208003 AA</u>	20060921	US20050084181	20050321
	<u>US7306121 BB</u>	20071211	US20050084181	20050321

Probable Assignee: GOTOHTICOM INC**Assignee(s):**^(std): HYGIENE TECHNIK INC ; OPHARDT HEINER ; SYED ABDUL V ; GOTOHTI COM INC**Assignee(s):** GOTOHTICOM INC ; SYED ABDUL VALI**Inventor(s):**^(std): SYED ABDUL V ; SYED ABDUL VALI ; OPHARDT HEINER**Inventor(s):** SYED ABDUL ; HEINER OPHARDT ; ABDUL VALI SYED**Agent(s):** RICHES MCKENZIE AND HERBERT LLP

International class B65D1/32 B65D37/00 B65D41/00 B65D50/00 B65D55/02 B65D85/00
 (IPC 8-9): B67D3/00 (Advanced/Invention);
B65D1/00 B65D37/00 B65D41/00 B65D47/00 B65D50/00 B65D55/02 B65D85/00
B67D3/00 (Core/Invention)

CPC: B65D47/065 B65D47/123**European class:** B65D47/06B B65D47/12B1**US class:** 222/209 222/214 222/215 222/526 222/566[Classification Explorer](#)**Cited documents:** USD470416 S1, USD426300 S1, USD310960 S1, US5975372 A, US5582315 A, US5356053 A, US4846599 A, US4600128 A, US4437587 A, US2987261 A, US2760687 A, US2003057235 AA, EP0601487 A1, DE4241137 A1,**Forward Citations:** WO16188588, WO15089544, WO12015456, WO10088209, USD777903, USD763078, USD743020, USD743019, USD737951, USD678071, USD676126, USD676125, USD671412, USD670373, USD668542, USD668156, USD656832, USD653953, USD641625, USD634631, USD634630, USD630314, USD629884, USD627458, USD608645, US9616454, US9072673, US9061096, US8991660, US8888752, US8808245, US8801667, US8734407, US8511492, US8486029, US8409152, US2012312895, US2012280002, US2011139149, US2011137258, US2010206904, US2010187195, US2010078051, US2010035202, US2009257963, US2009095775, US2008073350, US2007292369, US2007292366, ITMI20130697, CN101804392, CN101804392, AU2014366875,**Abstract:**

Source: US2006208003A A plastic squeeze container for dispensing a fluid carrying a turret member rotatably mounted to the container for movement to a plurality of different rotational positions with the turret member carrying an outlet through which fluid may be dispensed generally along an outlet axis and with rotation of the turret member the outlet axis varying as to the angles it assumes relative to a vertical axis of the container.

66) Family number: 1511884 (US3812994A)

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Title: TAMPER-PROOF CLOSURE CAP
Priority: US19720215562 19720105 US19720254393 19720518 US19730356915 19730503
Family:

Publication number	Publication date	Application number	Application date
CA1029685 A1	19780418	CA19740198800	19740503
JP50027674 A2	19750320	JP19740048854	19740502
US3812994 A	19740528	US19720254393	19720518
US3901404 A	19750826	US19730356915	19730503

Probable Assignee: DAIRY CAP CORP

Assignee(s):^(std): DAIRY CAP CORP

Assignee(s): DAIRY CAP CORP US ; FELDMAN JEROME M ; FIDELITY COMMERCIAL FINANCE CORP ; ITNOC DAIRY CAP CO INC

Inventor(s):^(std): FELDMAN J ; FELDMAN JEROME M

Inventor(s): FELDMAN J US

International class
^{(IPC 8-9):} [B65D41/04 B65D41/34](#) (Advanced/Invention);
[B65D41/04 B65D41/34](#) (Core/Invention)

International class
^{(IPC 1-7):} [B65D17/16 B65D41/34 B65D55/08 B65D55/12](#)

CPC: [B65D41/0421 B65D41/3404 B65D2101/0038](#)

European class: [B65D41/04B1A B65D41/34A L65D101/00A3C](#)

US class: [215/256 215/344](#)

[Classification Explorer](#)

Cited documents: US3650428 A, US3595418 A, US3549038 A, US3441161 A, US3370732 A, US3352448 A, US3281000 A, US3088617 A, US2950033 A, US2172159 A, US2162712 A, JP44028554 Y1,

Forward Citations: WO9735773, WO9735773, WO9210407, WO10134908, WO09136836, WO07147206, USRE33764, US8584877, US8506804, US8210375, US8070957, US8066875, US7837052, US7575121, US7228979, US7134567, US7134567, US6991123, US6705479, US6692685, US6637611, US6533136, US6527132, US6439412, US6325225, US6089390, US6073809, US6003701, US5862953, US5755348, US5586671, US5460287, US5385252, US5307945, US5294015, US5292019, US5238135, US5209795, US5111947, US5040702, US4961512, US4951830, US4934546, US4907709, US4878595, US4854472, US4848615, US4784296, US4760941, US4722447, US4667839, US4658977, US4598835, US4534480, US4498597, US4322012, US4269320, US4261478, US4131212, US4106654, US4076140, US3980195, US3913771, US2012067459, US2011186534, US2011114595, US2011017740, US2009032534, US2008217250, US2008210616, US2007034590, US2006138073, US2005269282, US2004251228, US2004055991, US2003189048, US2003116523, KR101775171, JP6156514, JP55033248, JP3106332, GB2339770, GB2312423, GB2312423, GB2305167, GB2305167, GB2268166, GB2268166, GB2200100, FR2607782, EP0316167, EP0212139, DE2931063, DE2543812,

Abstract:

Source: US3812994A A closure cap for the neck of a bottle or other container, includes a cap body having internal thread means designed to engage external threads on the neck, and a ratchet ring connected to the body by means of a shoulder. A continuous tear line formed at the junction of the body and the shoulder is provided for separating the body and ring, the shoulder and ring being adapted to pivot on the tear line which serves as a hinge to allow the ring to pivot slightly away from the bottle neck while seating the closure on said neck.

67) Family number: 31171242 (US2004211747A)

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Title: ROLLER BOTTLE

Priority: US20030437748P 20030102 US20030505742P 20030925 US20030742308 20031219
US20030742307 20031219

Family:	Publication number	Publication date	Application number	Application date
	<u>US2004211747 AA</u>	20041028	US20030742307	20031219
	<u>US2004241836 AA</u>	20041202	US20030742308	20031219
	<u>US7247471 BB</u>	20070724	US20030742308	20031219

Probable Assignee: BECTON DICKINSON AND CO

Assignee(s):^(std): BECTON DICKINSON CO ; WHITLEY KENNETH W

Assignee(s): KADAR ANNE M ; BECTON DICKINSON AND CO ; BECTON DICKINSON AND COMPANY

Inventor(s):^(std): KADAR ANNE M ; WHITLEY KENNETH W

International class
(IPC 8-9): B65D8/12 C12M1/24 C12M1/34 C12M3/04 (Advanced/Invention);
B65D8/04 C12M1/24 C12M1/34 C12M3/04 (Core/Invention)

International class
(IPC 1-7): B65D8/04 B65D8/18 C12M1/24

CPC: Y10S215/90 C12M27/12 C12M23/08 C12M27/20 C12M23/02 C12M25/00

European class: C12M23/08 C12M27/12 C12M27/20

US class: 215/379 215/379S 215/382 215/900 220/666 220/666S 435/288.1 435/304.1 435/304.2 435/304.200P

[Classification Explorer](#)

Cited documents: USRE38770 E, US7247471 BB, US5918090 A, US5704504 A, US5370250 A, US5209372 A, US5010013 A, US4962033 A, US3946903 A, US3873003 A, US3155281 A,

Forward Citations: WO08104587, WO08104587, WO08104586, WO08104586, USD570706, USD570705, US9499293, US9150331, US8800807, US8763829, US8215509, US2017043899, US2014217054, US2013082025, US2013020276, US2012255960, US2011114596, US2009242504, US2008213742, US2008206862, US2008206735, US2004211747, CN103289897, CN103289897, AU2014215502,

Abstract:

Source: US2004211747A A roller bottle is provided with a bottom wall, a top wall and a cylindrical side wall extending between the bottom and top walls. The top wall includes an is opening to provide access to the interior of the roller bottle. The cylindrical side wall of the roller bottle is formed with a helical pleat extending substantially from the bottom to the top for increasing cell growth surface area and for facilitating the flow of liquid to all interior surface areas of the bottle as the bottle is rolled about the axis of the side wall.

68) Family number: 1298414 (US3966089A)

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Title: Diluting and dispensing container
Priority: US19750571886 19750425 US19760665758 19760311 US19770836767 19770926
Family:

Publication number	Publication date	Application number	Application date
US3966089 A	19760629	US19750571886	19750425
US4088246 A	19780509	US19760665758	19760311
US4201316 A	19800506	US19770836767	19770926

Probable Assignee: COLGATE PALMOLIVE CO

Assignee(s):^(std): COLGATE PALMOLIVE CO

Assignee(s): COLGATE PALMOLIVE COMPANY ; COLGATE PALMOLIVE

Inventor(s):^(std): KLINGAMAN RICHARD JAMES ; KLINGAMAN RICHARD J

International class [B05B11/00 B65D51/28 B65D75/22 B65D81/32 B67B7/48 B67B7/86](#) (Advanced/Invention)
 (IPC 8-9):

International class [B65D51/22 B67B7/24](#)
 (IPC 1-7):

CPC: [B05B11/0078 B05B11/3057 B65D51/2835 B65D75/22 B65D81/3222 B67B7/28](#)

European class: [B05B11/00B11 B65D51/28B1B1 B65D75/22 B65D81/32C1 B67B7/28 L05B11/00P1 L05B11/30H3F2](#)

US class: [222/136 222/48 222/541.2 222/80 222/88](#)

[Classification Explorer](#)

Cited documents: US850070 A, US3966089 A, US3887069 A, US3655096 A, US3595439 A, US3506157 A, US3434629 A, US3101870 A, US3024947 A, US2536221 A, US217628 A, US1120170 A,

Forward Citations: WO9930836, WO9903778, WO9843895, WO9729850, WO9721605, WO16123414, WO0123295, WO0123295, USD769720, USD705659, USD694111, US9764342, US9516895, US9303392, US9248603, US9217868, US9181003, US9108208, US9085397, US9061825, US8795748, US8657162, US8632722, US8523017, US8378924, US8201714, US8196784, US8057733, US8016167, US8011534, US7997449, US7980243, US7922032, US7909210, US7802678, US7793655, US7784650, US7775401, US7690534, US7331486, US7306117, US7213593, US7066354, US7051907, US6997351, US6959839, US6938805, US6851580, US6808085, US6729560, US6550694, US6375041, US6319453, US6182865, US6155459, US6152326, US6105638, US6073808, US5961011, US5947332, US5944223, US5887761, US5871122, US5853034, US5609299, US5562250, US5154321, US5154320, US5064121, US5058770, US5052585, US5018643, US5012978, US4979638, US4941615, US4903865, US4893730, US4821923, US4705191, US4183414, US4132308, US4088246, US2015102061, US2014182607, US2013202747, US2013092690, US2013056086, US2011248052, US2011114675, US2010206903, US2010187257, US2010163578, US2010059551, US2009308889, US2009159482, US2009127274, US2009085261, US2009065378, US2008291277, US2008230630, US2008116221, US2008054018, US2008054001, US2008033391, US2008011779, US2007205218, US2007062980, US2006219736, US2006213788, US2005242121, US2005241635, US2005241634, US2005234402, US2005224515, US2005218104, US2005163651, US2005133544, US2005127101, US2004238566, US2004155061, US2004140321, US2003000961, US2002162863, US2002066753, JP5634293, JP2012166816, FR2883712, FR2776270, FR2590239, FR2569666, FR2568547, FR2495578, FR2453793, EP1789335, EP1707495, EP1561514, EP1097882, EP1092642, EP1092642, EP1068906, EP1049541, EP1012068, EP0958187, EP0867381, EP0714835, EP0606672, EP0240817, EP0240817, EP0209926, EP0170980, EP0170980, EP0026902, DE3611690, AU753451, AU726880,

Abstract:

Source: US3966089A A diluting and dispensing container having a neck portion for receiving and puncturing the bottom of a capsule of concentrated material. The capsule has an annular storage compartment, a central passageway and a frangible bottom wall.

69) Family number: 14879422 (US6112779A)

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Title: BOTTLE STOPPER HAVING A DEVICE FOR DRAWING UP METERED AMOUNTS OF THE LIQUID CONTAINED IN SAID BOTTLE**Priority:** IT1997FI00101 19970502 WO1998IT00108 19980428

Family:	Publication number	Publication date	Application number	Application date
	AU199872330 A1	19981127	AU19980072330	19980428
	DE69816841 D1	20030904	DE19986016841	19980428
	DE69816841 T2	20040527	DE19986016841T	19980428
	EP1015114 A1	20000705	EP19980919476	19980428
	EP1015114 B1	20030730	EP19980919476	19980428
	ES2203946 T3	20040416	ES19980919476T	19980428
	IT1291848 B1	19990121	IT1997FI00101	19970502
	ITFI970101 A0	19970502	IT1997FI00101	19970502
	ITFI970101 A1	19981102	IT1997FI00101	19970502
	US6112779 A	20000905	US19990423099	19991101
	WO9850157 A1	19981112	WO1998IT00108	19980428

Probable Assignee: PROJECT SAS DI MASSIMO MENICHELLI AND C**Assignee(s):^(std):** PROJECT SAS ; MAFFEI CAMILLA ; PROJECT S A S DI MENICHELLI MA

Assignee(s): PROJECT S A S DI MENICHELLI MASSIM O ; PROJECT S A S DI MASSIMO MENICHELLI AND C ; PROJECT SAS DI MASSIMO MENICHELLI AND C VIA CAVOUR ; PROJECT SAS DI MASSIMO MENICHELLI AND C ; PROJECT S A S DI MENICHELLI MASSIMO ; PROJECT S A S DI MENICHELLI MASSIMO PISTOIA ; PROJECT SAS DI MENICHELLI MASSIMO ; PROJECT SAS DI MENICHELLI MASSIMO PISTOIA ; PROJECT SAS DI MENICHELLI MASSIM O ; PROJECT SASDI MASSIMO MENICHELLI AND C

Inventor(s):^(std): CAMILLA MAFFEI ; MAFFEI CAMILLA

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

International class
^{(IPC 8-9):} [A61J1/00 A61J1/20 B01L3/02 G01F11/02](#) (Advanced/Invention);
[A61J1/00 A61J1/14 B01L3/02 G01F11/02](#) (Core/Invention)

International class
^{(IPC 1-7):} [A61J1/00 B01L3/02 B65B1/04 B65B3/04 B65B31/00 B65D B67C3/00 G01F11/02](#)

CPC: [A61J1/2096 B01L3/0282 G01F11/023 G01F11/027 A61J1/2065](#)**European class:** [A61J1/00M6 A61J1/20F B01L3/02F G01F11/02B4 G01F11/02B8C K61J1/20A6D](#)

US class: [141/22 141/23 141/25 141/27 141/380 141/381 141/94 215/217 215/219 215/221 222/205 222/309 222/47 222/49](#)

[Classification Explorer](#)

Cited documents: WO9617787 A1, US5836359 A, US5746349 A, US5671853 A, US3881624 A, GB814161 A, GB2301817 A1, EP0723921 A2, DE882755 A, DE8529592 U, DE8529592 U, DE1154232 B,

Forward Citations: US9771190, US9520305, US9427064, US9347811, US9234781, US9089868, US9078507, US8403008, US8171963, US7837064, US6575336, US2015091151, US2014361047, US2014234007, US2014209206, US2013112314, US2013092285, US2012279968, US2012261029, US2011284123, US2009250425, US2009178725, US2008308183, US2006273061, US2005070853, KR101417570, JP2013236828, EP2491814, EP2491814,

Abstract:

Source: US6112779A PCT No. PCT/IT98/00108 Sec. 371 Date Nov. 1, 1999 Sec. 102(e) Date Nov. 1, 1999 PCT

Filed Apr. 28, 1998 PCT Pub. No. WO98/50157 PCT Pub. Date Nov. 12, 1998The capsule (11), which can be screwed onto the threaded neck (3) of the bottle, coaxially forms the cylinder (15) of the syringe device; an element (21) inside the capsule (11) and surrounding the cylinder (15) forms an annular leaktight seal (21A) which can be tightened onto the edge (3B) of the neck (3) and fits inside the bottle neck by means of a shaped extension piece (21B); said element (21) accommodates, via a central hole, the cylinder (15) of the syringe device and surrounds it with an annular lip (21C) which extends toward the center of the bottle so as to wipe the outer surface of the cylinder as the capsule is fitted with a safety cap (29) and a seal (33).

0) GB698942A – IMPROVEMENTS IN AND RELATING TO DRIP RETAINING ...

70) Family number: 20578845 (GB698942A)

© PatBase

Title: Improvements in and relating to drip retaining devices for bottles or jars

Priority: GB19500000903 19500113

Family:	Publication number	Publication date	Application number	Application date
	GB698942 A	19531028	GB19500000903	19500113

Probable Assignee: EDMUND JOSEPH GOEMANS

Assignee(s):^(std) EDMUND JOSEPH GOEMANS

International class [B65D23/06](#) (Advanced/Invention);
(IPC 8-9) [B65D23/00](#) (Core/Invention)

CPC: [B65D23/065](#)

European class: [B65D23/06B](#)

[Classification Explorer](#)

Forward Citations: WO16081447,

Abstract:

Source: GB698942A 698,942. Bottles c. GOEMANS, E. J. Dec. 22, 1950 [Jan. 13, 1950; April 12, 1950], Nos. 903/50 and 8982/50. Class 125(i) A bottle neck N has a washer or ring stuck to its rim R so as to form a projecting drip cutting surface C<SP>1</SP>. The washer is preferably of aluminium foil but may be of any material less wettable than that of the bottle. In the second Provisional Specification it is said that a coating can be used in place of the foil.

71) Family number: 31846377 (AU2005100041A)

© PatBase

Title: Closure

Priority: AU20040905973 20041014 AU20050100041 20050113 AU20050202455 20050606
 AU20050202882 20050630 AU20050202882 20050630

Family:	Publication number	Publication date	Application number	Application date
	AU2005100041 AD	20050310	AU20050100041	20050113
	AU2005100041 BD	20050714	AU20050100041	20050113
	AU2005202455 AA	20050630	AU20050202455	20050606
	AU2005202882 AA	20070118	AU20050202882	20050630
	AU2005202882 BB	20130314	AU20050202882	20050630

Probable Assignee: SMILESTRAW PTY LTD

Assignee(s):^(std) SMILESTRAW PTY LTD

Inventor(s):^(std) ANDERSON JULIA ; ANDERSON JULIA MCKINLEY

Inventor(s): JULIA ANDERSON ; JULIA MCKINLEY ANDERSON

Agent(s): GRIFFITH HACK

International class
 (IPC 8-9): [A45F3/16 A47G19/22 A47G21/18 B65D25/40 B65D25/48 B65D43/16 B65D51/04 B65D55/02](#) (Advanced/Invention);
[A45F3/00 A47G19/22 A47G21/00 B65D25/38 B65D43/16 B65D51/00 B65D55/02](#) (Core/Invention)

International class
 (IPC 1-7): [A45F3/16 A47G019/22 A47G021/18 A47G19/22 A47G21/18 B65D025/40 B65D043/16 B65D051/04 B65D055/02 B65D101/00 B65D25/40 B65D25/48 B65D43/16 B65D51/04 B65D55/02](#)

CPC: [Y02W90/11](#)

[Classification Explorer](#)

Cited documents: WO9316753 A1, US2001028003 AA,

Forward Citations: WO11146999, US9055833, US8833575, US2012160797, GB2435468, GB2435468,

Abstract:

Source: AU2005100041A The present invention relates generally to a closure which finds particular application as a closure for a drinking vessel such as a bottle. The closure comprises a lid member adapted to engage an opening of the drinking vessel and an elongate tubular member which projects from the lid member and has an outlet at one end thereof. The tubular member is used as a conduit through which liquid can pass from the drinking vessel to a user, and is of sufficient length for a user to insert the tubular member into their mouth so that the outlet can be located past their front teeth. Furthermore, the exterior of the tubular member has a generally flattened configuration that is adapted to rest on the user's tongue. 4/7 a 6b 6b fj 6e Figure 6 X 7 5/7 Figure 7 31+ (0 C,2. Figure 8 6/7 E (I2- E Q- Figure 9 Figure (S~ Figure 11

0) US5676269A – TAMPER-EVIDENT CLOSURE WITH CAPTIVE BAND

72) Family number: 15221983 (US5676269A)

© PatBase

Title: Tamper-evident closure with captive band

Priority: US19950408078 19950322 US19960665063 19960515 WO1996US03927 19960320

Family:

Publication number	Publication date	Application number	Application date
AR001409 AA	19971022	AR19960335883	19960322
AT253506 E	20031115	AT19960908890T	19960320
AU199652584 A1	19961008	AU19960052584	19960320
AU701983 B2	19990211	AU19960052584	19960320
BG101889 A	19980731	BG19970101889	19970915
BG62607 B1	20000331	BG19970101889	19970915
BRPI9607940 A	19980602	BR1996PI07940	19960320
CA2215927 AA	19970919	CA19962215927	19960320
CN1070143 C	20010829	CN19951019906	19951103
CN1131635 A	19960925	CN19951019906	19951103
CO4410224 A1	19970109	CO19950014561	19950407
CR5360 A	19980427	CR19960005360	19960718
DE69630596 D1	20031211	DE19966030596	19960320
DE69630596 T2	20040923	DE19966030596T	19960320
DK0815028 T3	20031201	DK19960908890T	19960320
EG22031 A	20020630	EG19960000249	19960321
EP0815028 A1	19980107	EP19960908890	19960320
EP0815028 A4	20010516	EP19960908890	19960320
EP0815028 B1	20031105	EP19960908890	19960320
ES2208734 T3	20040616	ES19960908890T	19960320
HU223327 B1	20040628	HU19980000768	19960320
HU9800768 AB	19980728	HU19980000768	19960320
HU9800768 AC	20000328	HU19980000768	19960320
JP11502491 T2	19990302	JP19960528636T	19960320
KR100436168 B1	20040727	KR19970706602	19970922
KR19980703199 A	19981015	KR19970706602	19960320
MX9707176 A1	19980331	MX19970007176	19960320
NO311340 B1	20011119	NO19970004201	19970912
NO974201 A	19970912	NO19970004201	19970912
NO974201 A0	19970912	NO19970004201	19970912
NZ304709 A	19990128	NZ19960304709	19960320
PL180383 B1	20010131	PL19960322173	19960320
PL322173 A1	19980119	PL19960322173	19960320
PT815028 T	20040331	PT19960908890T	19960320
RO118745 B	20031030	RO19970001765	19960320
RU2139230 C1	19991010	RU19970117448	19960320
RU97117448 A	19990720	RU19970117448	19971022
TH25344 B	20090128	TH19951000720	19950403
TH25376 A	19970529	TH19951000720	19950403
TW279835 B	19960701	TW19950103276	19950401
US5676269 A	19971014	US19960665063	19960515
WO9629257 A1	19960926	WO1996US03927	19960320

ZA9602254 A	19960926	ZA19960002254	19960320	
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Probable Assignee: BERRY PLASTICS CORP

Assignee(s):^(std): CLOSURE AND PACKAGING SERVICES ; CLOSURE AND PACKAGING SERVICES LTD ; CLOSURES AND PACKAGING SERVICE ; KLOZHURES EHND PEHKEHDZHING SE ; CLOSURES AND PACKAGING SERV LTD ; KLOZHURES EHND PEHKEHDZHING SERVISIS LTD ; CLOSURES AND PACKAGING SERVICES LTD ; CLOSURES AND PACKAGING SERVICES SUBSTITUT LTD ; PRECISION VALVE CORP

Assignee(s): TANSEY M CHARLES ; TANSEY CHARLES M ; REXAM CLOSURE SYSTEMS LLC ; CLOSURES AND PACKAGING SERVICES LTD ST PETER PORT GUERNSEY ; CLOSURES AND PACKAGING SERVICES LTD ST PETER PORT GUERNSEY CSATORNA SZIGETEK ; CLOSURES AND PACKAGING SERVICES SUBSTITUTED UNDER SECTION 24 1 FROM PRECISION VALVE CORP LTD ; CLOSURES AND PACKAGING SERVICES A CORP OF GUERNSEY LTD ; CLOSURES AND PACKAGING SERVICES LTD ST PETER PORT ; 3I GROUP PLC ; BERRY PLASTICS CORP ; BLAKE R ROBERT ; BLAKE ROBERT R

Inventor(s):^(std): TANSEY CHALRES M ; TANSEY M ; TANSEY M CHARLES ; TANSEY CHARLES MARTIN ; TANSEY CHARLES M ; ROBERT R BLAKE ; ROBERT R BLEJK ; ROBERT R BLEJK ; ROBERT R BLAKE ; CHARLES M TANSEY ; CHARLES M TANSEY ; CHARL Z MTEHNSI ; CHARL Z M TEHNSI ; CHALRES M TANSEY ; BLAKE ROBERT R ; BLAKE R ; BLAKE R ROBERT

Inventor(s): CHARL'Z M.TEHNSI

Agent(s): FB RICE; FB RICE PTY LTD; KIRBY EADES GALE BAKER; XIMENA BONILLA PEREIRA

Designated states: AT AU BE BG BR CA CH DE DK ES FI FR GB GR HU IE IT JP KP KR LI LU MC MX NL NO NZ PL PT RO RU SE SG UA

International class
(IPC 8-9): [B65B51/00 B65D41/00 B65D41/04 B65D41/34 B65D41/38 B65D51/16 B65D55/08 G01B11/02 G03F7/26 H01L21/00](#) (Advanced/Invention);
[B65D41/00 B65D41/04 B65D41/34 B65D51/16 G01B11/02 G03F7/26 H01L21/00](#) (Core/Invention)

International class
(IPC 1-7): [B65B B65B51/00 B65D41/00 B65D41/34 B65D41/38 B65D55/08 B67B E05F](#)

CPC: [B65D41/0428 B65D41/3447 B65D51/1688 B65D2101/0046](#)

European class: [B65D41/04B2 B65D41/34D1 B65D51/16E3 L65D101/00A3D](#)

US class: [215/252](#)

[Classification Explorer](#)

Cited documents: WO9402371 A1, US5248050 A, US5246125 A, US5215204 A, US5080246 A, US4805792 A, US4557393 A, US4530436 A, US4206851 A, US3904062 A, EP0552958 B1, EP0552958, DE4206123 A1, DE3230779 A1,

Forward Citations: WO9903746, WO12021084, WO0064774, USD634200, USD634199, USD633386, US9617045, US8844770, US8672158, US8668097, US8584876, US8231020, US7975864, US7735666, US7645414, US7575123, US7344039, US7235207, US7228979, US6991123, US6874648, US6793082, US6772894, US6673298, US6659297, US6640988, US6626310, US6581793, US6527132, US6491175, US6371317, US5979682, US2010213159, US2009159555, US2009008392, US2008197135, US2007181525, US2007108154, US2006163189, US2005189312, US2004124169, US2004069738, US2003057175, JP2006213360, ES2292317, EP2383197, EP1263657, EP1263657, DE10297200, DE102009044896, CN103619719, CN103619719, AU731374,

Abstract:

Source: US5676269A A container closure 10 for screw top containers such as beverage container, the closure 10 having a generally cylindrical tamper-evident band 11 joined by a plurality of frangible bridges 13b, 13c and at least one extended non-frangible bridge 13a to the free edge of a skirt 16 of the closure 10. The band 11 has a segmented internal rib 18 which engages an external retaining flange 30 of the container 29 when the closure is applied to the container. An L-shaped slot 17 extends through the side wall of the tamper-evident band 11, the horizontal leg 61 of which terminates directly adjacent to or under the extended non-frangible bridge 13a. A weakened frangible region 63 of the band extends from the terminating end 62 of the horizontal leg 61 axially downward to the bottom of the band 11. On removal of the closure 10 from the container 29, the frangible bridges 13b, 13c and frangible region 63 rupture and the band 11 remains captive at the extended bridge 13a to the skirt. Longitudinal internal projections 25 and 28 circle the band 11, except in the region of the L-shaped slot 17 to allow stretching of the band adjacent the slot. Thickenings 26 circle the band except in the region of the slot 17

and except at approximate quarter-turns 71, 72 around the band from the slot, allowing stretching of the band where absent for application to the container.

73) Family number: 19254488 (US4638927A)

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Title: CONTAINER FOR STORING AND DISPENSING A LIQUID PRODUCT AND AT LEAST ONE ADDITIONAL PRODUCT WHICH ARE TO REMAIN SEPARATED DURING STORAGE

Priority: CA19850479991 19850424 FR19840007497 19840515

Family:	Publication number	Publication date	Application number	Application date
	BE902411 A	19851113	BE19850215005	19850513
	BE902411 A1	19851113	BE19850215005	19850513
	CA1275077 A1	19901009	CA19850479991	19850424
	CH662327 A	19870930	CH19850001623	19850416
	DE3516959 A1	19851121	DE19853516959	19850510
	FR2564433 A1	19851122	FR19840007497	19840515
	FR2564433 B1	19861003	FR19840007497	19840515
	GB2158801 A1	19851120	GB19850010833	19850429
	GB2158801 B2	19880224	GB19850010833	19850429
	GB8510833 A0	19850605	GB19850010833	19850429
	IT1208806 A	19890710	IT19850067435	19850513
	IT8553372 U0	19850513	IT19850053372U	19850513
	IT8567435 A0	19850513	IT19850067435	19850513
	JP61000162 A2	19860106	JP19850101655	19850515
	US4638927 A	19870127	US19850731875	19850508

Probable Assignee: OREAL

Assignee(s):^(std): OREAL

Assignee(s): OREAL L ; FRENCH JOINT STOCK CO ; FRENCH JOINT STOCK CO L OREAL ; L OREAL ; MORANE BRUNO P

Inventor(s):^(std): BRUNO MORANE ; BRUNO PMORANE ; BURUUNO PE MORAANU ; MORANE B P ; MORANE BP ; MORANE BRUNO ; MORANE BRUNO P

Inventor(s): P MORANE BRUNO ; BRUNO P MORANE ; B P MORANE ; BP MORANE

Agent(s): ROBIC ROBIC AND ASSOCIES ASSOCIATES

International class
(IPC 8-9): [B65D25/08](#) [B65D47/26](#) [B65D51/28](#) [B65D81/32](#) [B65D83/06](#) (Advanced/Invention);
[B65D25/04](#) [B65D47/04](#) [B65D51/24](#) [B65D81/32](#) (Core/Invention)

International class
(IPC 1-7): [A45D34/00](#) [A61J1/00](#) [B65D25/08](#) [B65D47/20](#) [B65D47/36](#) [B65D51/28](#) [B65D81/32](#)
[B65D83/06](#) [B67D5/56](#)

CPC: [Y10S215/08](#) [B65D81/32](#) [B65D51/2821](#)

US class: [206/222](#) [215/DIG.8](#) [222/129](#) [222/215](#) [222/80](#) [222/83](#) [604/415](#) [604/88](#) [604/91](#)

[Classification Explorer](#)

Cited documents: US4301948 A, US4103772 A, US3968872 A, US3964641 A, US3802604 A, US3739947 A, US3521745 A, US3347410 A, US3156369 A, US2721552 A, US2659370 A, US2653609 A, US2642870 A, US2524365 A, US2524364 A, US2275567 A, US1759459 A, GB1383404 A, FR2506726 A1, FR2453793 A1, FR2383844 A1, FR2305364 A1, FR2294937 A1, FR2291115 A2, FR2290366 A1, FR1568362 A, FR1562697 A, FR1559586 A, FR1350383 A, FR1083275 A, EP0099754 A2, DE2211753 A1,

Forward Citations: WO9840289, WO15175717, WO12072934, WO08124630, WO02074375, WO0058164, WO0027717, US9585810, US9549633, US9394090, US8870844, US8770399, US8464633, US8408389, US8230777, US8215481, US8151985, US8056726, US7980243, US7793655, US7377383, US7261226, US7213593, US7055684, US6959841, US6886686, US6772910, US6745763, US6702161, US6679375, US6669054, US6644471, US6387073, US6305576, US5584418, US5114011, US4693366, US2015250349, US2012095392, US2012067901, US2012017766,

US2011054437, US2010236951, US2010084290, US2010012613, US2010012193,
US2009188886, US2008289976, US2008245683, US2008033391, US2006289316,
US2005241634, US2004251276, US2004195120, US2004188282, US2004011679,
US2003127467, TWI347286, JP2009057098, GB2525652, GB2525652, GB2365405,
GB2365405, FR2967894, FR2812621, FR2776270, EP0999149, DE3914518,

Abstract:

Source: US4638927A A container comprises a bottle for a liquid product and having at the end of its neck a leakproof envelope enclosing an additional product to be stored separately from the liquid in the bottle. A cap on the neck includes a slidable push button carrying a perforator to open the envelope in a central region of the envelope to allow the additional product to mix with the liquid and then to be discharged through an eccentric duct in the cap rather than having to pass through the center of the cap where the perforator is positioned.

74) Family number: 18167585 (EP0222607A2)

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Title: Fluid dispenser.
Priority: GB19850027695 19851109
Family:

Publication number	Publication date	Application number	Application date
AU198664876 A1	19870514	AU19860064876	19861106
AU584473 B2	19890525	AU19860064876	19861106
BRPI8605541 A	19870811	BR1986PI05541	19861110
DK532486 A	19870510	DK19860005324	19861107
DK532486 A0	19861107	DK19860005324	19861107
EP0222607 A2	19870520	EP19860308723	19861110
EP0222607 A3	19870819	EP19860308723	19861110
ES1002069 UA	19880601	ES19860001132U	19861107
ES1002069 Y1	19890116	ES19860001132U	19861107
ES1002069 YA	19890116	ES19860001132U	19861107
GB2182958 A1	19870528	GB19860026490	19861105
GB2182958 B2	19890125	GB19860026490	19861105
GB8527695 A0	19851211	GB19850027695	19851109
GB8626490 A0	19861203	GB19860026490	19861105
JP62113020 A2	19870523	JP19860267421	19861110
NZ218213 A	19890106	NZ19860218213	19861107
PT83703 A	19870617	PT19860083703	19861107
ZA8608493 A	19870729	ZA19860008493	19861107
ZW22486 A	19870624	ZW19860000224	19861107

Probable Assignee: RECKITT AND COLMAN PRODUCTS LIMITED

Assignee(s):^(std): RECKITT AND COLMAN PROD LTD ; RECKITT AND COLMAN PRODUCTS LIMITED ; RECKITT AND COLMAN PRODUCTS LTD ; RECKITT AND COLMANN PROD LTD ; RECKITT AND COLMAN OVERSEAS

Assignee(s): RECKITT AND COLMAN OVERSEAS LIMITED ; RECKITT AND COLMAN OVERSEAS LTD

Inventor(s):^(std): GEOFFREY ROBERT HAMMOND ; HAMMOND G R ; HAMMOND GEOFFREY ROBERT ; HAMMOND GR ; JIYOFURII ROBAATO HAMONDO

Agent(s): FB RICE; FB RICE PTY LTD

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

International class
^{(IPC 8-9):} [B65D47/20 E03D9/03 G01F11/26 G01F11/28](#) (Advanced/Invention);
[B65D47/04 E03D9/02 G01F11/00 G01F11/10](#) (Core/Invention)

International class
^{(IPC 1-7):} [A61L2/18 B65D47/20 B65D83/00 B67D E03B9/02 E03D9/02 E03D9/03 F03D9/00 G01F11/28 G01F11/38 G07F](#)

CPC: [E03D9/038](#)

European class: [E03D9/03D6](#)

[Classification Explorer](#)

Cited documents: US3965497 A, US3945062 A, US3908209 A, US3864763 A, US3073488 A, US2839763 A, EP0039309 A1, AU6247986 A1,

Forward Citations: WO9929971, US6820287, GB2309467, GB2309467, GB2298878, GB2243378, GB2243378, GB2195368, ES2137882, EP1087067, DE19945598,

Abstract:

Source: EP0222607A2 A fluid dispensing device for dispensing controlled doses of fluid from an inverted bottle (5)

into a cistern, each time the cistern is flushed. The device comprises a plug member (17) which is adapted in use to be secured in the mouth of a bottle and in which is formed a product feed tube. One end of the product feed tube (55) opens into the interior of the bottle (5) and the other end defines an air trap (57). A cap member (1) is secured to the bottle (5) over the plug member (17) and between them they define a chamber which is open to the air trap (57) end of the product feed tube (55), a siphon (15) connecting the chamber to an outlet port (13) in the exterior of the fluid dispensing device and an air vent connecting the chamber to the exterior of the fluid dispensing device at a point above the outlet port (13).

75) Family number: 55896286 (US2016009015A)

© PatBase

Title: BOTTLE, METHOD OF MAKING THE SAME AND USE OF FDCA AND DIOL MONOMERS IN SUCH BOTTLE**Priority:** EP20120753139 20120831 WO2012EP66996 20120831**Family:**

Publication number	Publication date	Application number	Application date
AR092379 AA	20150415	AR2013P103075	20130829
CN104703776 A	20150610	CN201280076321	20120831
DE602012026049 D1	20170112	DE201260026049T	20120831
EP2890544 A1	20150708	EP20120753139	20120831
EP2890544 B1	20161130	EP20120753139	20120831
ES2616029 T3	20170609	ES20120753139T	20120831
JP2015533731 T2	20151126	JP20150528885T	20120831
JP6175501 B2	20170802	JP20150528885T	20120831
MX2015002489 A1	20150907	MX20150002489	20120831
PL2890544 T3	20170630	PL20120753139T	20120831
TR201702425 T4	20170321	TR20170002425T	20120831
US2016009015 AA	20160114	US20120424417	20120831
WO14032730 A1	20140306	WO2012EP66996	20120831

Probable Assignee: ANONYME DES EAUX MINERALES D EVIAN ET EN ABREGE S A E M E SOC**Assignee(s):**^(std): BOUFFAND MARIE BERNARD ; COLLOUD ALAIN ; EAUX MINERALES D EVIAN SAEME DES SA ; EVIAN SAEME SA ; EAUX MINERALES D EVIAN S A E M E DES SA ; EAUX MINERALES D EVIAN ET EN ABREGE S A E M E DES SA ; ANONYME DES EAUX MINERALES DEVIAN SOC ; REUTENAUER PHILIPPE ; ANONYME DES EAUX MINERALES D EVIAN ET EN ABREGE S A E M E SOC**Assignee(s):** ANONYME DES EAUX MINERALES D EVIAN ET EN ABREGE SAEME SOC ; ANONYME DES EAUX MINERALES D EVIAN SAEME SOC ; DES EAUX MINERALES D EVIAN SAEME SA**Inventor(s):**^(std): ALAIN COLLOUD ; BOUFFAND MARIE BERNARD ; COLLOUD ALAIN ; MARIE BERNARD BOUFFAND ; PHILIPPE REUTENAUER ; REUTENAUER PHILIPPE**Agent(s):** CABINET PLASSERAUD; VEIGA MIKEL; HARA KENZO WORLD PATENT AND TRADEMARK; UGUR GUERSAD YALCINER**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 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**International class**
^(IPC 8-9): [B29C49/00](#) [B29C49/06](#) [B29C49/48](#) [B65B3/02](#) [B65D1/00](#) [B65D1/02](#) [B65D1/44](#) [B65D23/10](#) [C08G63/16](#) [C08G63/18](#) (Advanced/Invention)**CPC:** [B29B2911/14713](#) [B29C49/0005](#) [B29C49/48](#) [B65B3/022](#) [B29C2049/4882](#) [B29K2067/00](#) [B29K2105/258](#) [B29L2022/00](#) [B29L2031/7158](#) [B65D1/0207](#) [B65D1/0284](#) [B65D1/44](#) [B65D2501/0036](#)**US class:** [215/371](#) [264/573](#) [53/453](#)[Classification Explorer](#)**Cited documents:** WO13182541 A1, WO11043660 A2, WO10077133 A1, USD757556 S1, USD668157 S1, US9527954 BB, US9321744 BA, US9228051 BB, US8658810 BB, US7455189 BB, US2017210851 AA, US2017197930 AA, US2017037181 AA, US2016376400 AA, US2016167279 AA, US2016144551 AA, US2016096928 AA, US2016002397 AA, US2015337080 AA, US2015336320 AA, US2015321826 AA, US2015307704 AA, US2015175745 AA, US2015151869 AA, US2015110983 AA, US2015108081 AA, US2015064383 AA, US2015008210 AA, US2014336349 AA, US2014205786 AA,

US2014135449 AA, US2013270212 AA, US2013140264 AA, US2012282422 AA, US2012061410 AA, US2011282020 AA, US2011120902 AA, US2011071238 AA, US2010230378 AA, US2010174044 AA, US2010155359 AA, US2009166314 AA, US2009124763 AA, US2009018264 AA, US2007257003 AA, US2007257003, US2006283832 AA, KR20000040988, JP2009520093 T2, JP2009520093, JP2008291244 A2, JP2008291244, CN101945919 A, CN101460364 A,

Forward Citations: WO16130748, WO16044305, FR3028501,

Abstract:

Source: US2016009015A A bottle (1) comprising an envelop (2) defining a housing, said bottle being molded from at least one thermoplastic polymer of at least one FuranDiCarboxylic Acid (FDCA) monomer, preferably 2,5-FuranDiCarboxylic Acid (2,5-FDCA) monomer, and at least one diol monomer, preferably monoethylene glycol (MEG) monomer, wherein the envelop is provided with at least one imprint (10a, 10b).

0) US4164298A – FROSTED BOTTLE OF SATURATED POLYESTER

76) Family number: 1299866 (US4164298A)

© PatBase

Title: FROSTED BOTTLE OF SATURATED POLYESTER

Priority: JP19760036636 19760331 JP19850083374 19850417 US19770830864 19770906
US19770779473 19770321

Family:	Publication number	Publication date	Application number	Application date
	AU197723756 A1	19781005	AU19770023756	19770330
	AU511098 B2	19800731	AU19770023756	19770330
	CA1070625 A1	19800129	CA19770275182	19770330
	DE2713879 A1	19771013	DE19772713879	19770329
	FR2346226 A1	19771028	FR19770009485	19770330
	FR2346226 B1	19820430	FR19770009485	19770330
	GB1550986 A	19790822	GB19770013180	19770329
	IT1074087 A	19850417	IT19770021834	19770329
	JP1385228 C3	19870626	JP19760036636	19760331
	JP1597286 C3	19910128	JP19850083374	19850417
	JP2023419 B4	19900524	JP19850083374	19850417
	JP52120083 A2	19771008	JP19760036636	19760331
	JP60251026 A2	19851211	JP19850083374	19850417
	JP61039223 B4	19860902	JP19760036636	19760331
	NL177671 B	19850603	NL19770003245	19770325
	NL177671 C	19851101	NL19770003245	19770325
	NL7703245 A	19771004	NL19770003245	19770325
	US4164298 A	19790814	US19770779473	19770321
	US4179488 A	19791218	US19770830864	19770906

Probable Assignee: YOSHINO KOGYOSHO CO LTD

Assignee(s):^(std): YOSHINO KOGYOSHO CO LTD

Assignee(s): YOSHINO KOGYOSHO CO LTD TE TOKIO ; YOSHINO KOGYOSHO CO LTD TE TOKIO JAPAN ; YOSHINO KOGYOSHO KK ; HATTORI MASAO ; NISHIKAWA MASANORI ; YOSHINO KOGYOSHO CO

Inventor(s):^(std): HATSUTORI MASAO ; HATTORI M ; HATTORI MASAO ; NISHIKAWA M ; NISHIKAWA MASANORI

Inventor(s): M HATTORI ; M NISHIKAWA ; MASANORI NISHIKAWA ; MASANORI NISHIKAWA ET MASAO HATTORI ; MASAO HATTORI

International class
(IPC 8-9): [B29B11/08](#) [B29C49/00](#) [B29C49/06](#) [B29C49/08](#) [B29C49/22](#) [B29C49/64](#) [B29C49/68](#)
[B29C59/02](#) [B29C65/00](#) [B65D1/00](#) [B65D1/02](#) (Advanced/Invention);
[B29C49/04](#) [B29C49/06](#) [B29C71/00](#) [B29K67/00](#) [B29L24/00](#) (Advanced/Non-invention);
[B29B11/00](#) [B29C49/00](#) [B29C49/06](#) [B29C49/08](#) [B29C49/22](#) [B29C49/64](#) [B29C59/02](#)
[B29C65/00](#) [B65D1/00](#) [B65D1/02](#) (Core/Invention);
[B29C49/04](#) [B29C49/06](#) [B29C71/00](#) (Core/Non-invention)

International class
(IPC 1-7): [B29B3/00](#) [B29C17/07](#) [B29C49/06](#) [B29C49/22](#) [B29C49/64](#) [B29C5/06](#) [B29D23/00](#)
[B29D23/03](#) [B29D23/03](#) [B29D23/08](#) [B29K67/00](#) [B29L24/00](#) [B65D1/00](#) [B65D1/02](#) [B65D1/40](#)
[B65D23/00](#) [B65D23/08](#) [B65D31/02](#)

CPC: [Y10S264/907](#) [Y10T428/1397](#) [B29B2911/14331](#) [B29B2911/14337](#) [B65D1/0276](#)
[B29B2911/1402](#) [B29B2911/14026](#) [B29B2911/14033](#) [B29B2911/1404](#) [B29B2911/14326](#)
[B29B2911/14333](#) [B29B2911/1444](#) [B29C49/0073](#) [B29C49/04](#) [B29C49/06](#) [B29C49/6445](#)
[B29C49/6454](#) [B29C59/021](#) [B29C71/0063](#) [B29K2067/00](#) [B29K2995/0024](#) [B29K2995/0041](#)
[B29K2995/0043](#) [B65D1/0207](#) [B65D2501/0036](#) [B65D1/0223](#)

European class: [B29C49/00G](#) [B29C49/64B4B](#) [B29C49/64B4C](#) [B29C59/02B](#) [B65D1/02B](#) [B65D1/02D](#)
[B65D1/02D2](#) [B65D1/02D2C](#) [L29B911/14B2B](#) [L29B911/14B2D](#) [L29B911/14B2F](#)
[L29B911/14B2H](#) [L29B911/14D10D4D2](#) [L29B911/14D2](#) [L29B911/14D4](#) [L29C49/04](#)

L29C49/06 L29C71/00D L29K67/00 L29K995/00E4 L29K995/00F4 L29K995/00F4B
L65D501/02Y1C

US class: 215/1.000C 215/1.0C 215/1C 215/42 264/521 264/535 264/907 426/106 428/36.92

Classification Explorer

Cited documents: US4044086 A, US4042657 A, US4039641 A, US4036927 A, US3849530 A, US3822332 A, US3821349 A, US3821343 A, US3814785 A, US3803275 A, US3745150 A, US3496258 A, NL7510660 A, GB1179117 A, GB1051974 A, FR2102128 A1, FR2102127 A1, DE2312733 A1,

Forward Citations: WO9426497, WO0132386, WO0132386, USD608212, USD608207, USD597842, USD589810, USD587127, USD583244, US8468785, US7033656, US6659298, US6524694, US6387312, US6325583, US6270868, US5874141, US5858300, US5261545, US5191987, US5116565, US5080244, US4997692, US4991728, US4933135, US4928835, US4889247, US4629598, US4620639, US4590021, US4589559, US4572811, US4564497, US4519975, US4485134, US4481163, US4414230, US4387815, US4379099, US4375442, US4359165, US4358491, US4339409, US4320083, US4260567, US2010300043, US2009072427, US2007101681, US2006110558, US2005029712, US2003194518, JP60193828, JP59113025, JP58036420, JP57201631, JP54062259, JP54037169, JP2006321152, JP1588950, GB2269153, FR2785845, FR2531001, FR2491873, FR2447326, FR2440877, FR2429660, FR2401759, EP1302402, EP0842857, EP0073151, DE19647260,

Abstract:

Source: US4164298A One of the main objectives of the present invention is to provide a frosted bottle made of a saturated polyester.

0) GB584996A – AN IMPROVED ARRANGEMENT FOR CLOSING HOT WATER B...

77) Family number: 19691471 (GB584996A)

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Title: An improved arrangement for closing hot water bottles and other containers

Priority: GB19440022093 19441109

Family:	Publication number	Publication date	Application number	Application date
	<u>GB584996 A</u>	19470128	GB19440022093	19441109

Probable Assignee: ALFRED JOSEPH ENSOR

Assignee(s):^(std): ALFRED JOSEPH ENSOR ; ST HELENS CABLE AND RUBBER COM

Assignee(s): ST HELENS CABLE AND RUBBER COMPANY LIMITED

International class
(IPC 8-9): A61F7/08 B65D39/12 (Advanced/Invention);
A61F7/08 B65D39/00 (Core/Invention)

International class
(IPC 1-7): A61F7/04 B65D39/12

CPC: A61F7/086

European class: A61F7/04B4 A61F7/08D

[Classification Explorer](#)

Forward Citations: CN106467204,

Abstract:

Source: GB584996A 584,996. Closures for hot-water bottles and other containers. ST. HELENS CABLE and RUBBER CO., Ltd., and ENSOR, A. J. Nov. 9, 1944, No. 22093. [Class 125 (iii)] A closing arrangement for containers of rubber or rubber – like or other flexible yielding material, e.g., a hot-water bottle consists of an expansible stopper 9 between which and the rigid ring 3 the container wall is clamped. The ring may be of metal, bakelised paper and c. may be held between circumferential ribs formed on the container, and may have small perforations to assist its anchorage. The stopper is of known type. The material 9 is rubber, and nut 12 may be retained by turning over the upper end of the pillar and by a chain.

0) GB754582A – IMPROVEMENTS IN OR RELATING TO POURING DEVICES ...

78) Family number: 20179959 (GB754582A)

© PatBase

Title: Improvements in or relating to pouring devices for bottles

Priority: 19530807

Family:	Publication number	Publication date	Application number	Application date
	<u>GB754582 A</u>	19560808	GB19540014258	19540514

Probable Assignee: SCHENLEY IND INC

Assignee(s):^(std): SCHENLEY IND INC

Assignee(s): SCHENLEY INDUSTRIES INC

International class
(IPC 8-9): B65D23/06 (Advanced/Invention);
B65D23/00 (Core/Invention)

CPC: B65D23/065

European class: B65D23/06B

[Classification Explorer](#)

Forward Citations: WO10146317, US8875914, US3338448, ITAN20130182, GB2355971, FR2946960,

0) US2013327661A – BOTTLE

79) Family number: 55321959 (US2013327661A)

© PatBase

Title: BOTTLE

Priority: US20120492183 20120608 US20160220904 20160727

Family:	Publication number	Publication date	Application number	Application date
	US2013327661 AA	20131212	US20120492183	20120608
	US2017001758 AA	20170105	US20160220904	20160727
	US9428303 BB	20160830	US20120492183	20120608

Probable Assignee: FOSTER SAMUEL

Assignee(s):^(std): FOSTER SAMUEL

Inventor(s):^(std): FOSTER SAMUEL

Agent(s): BARLEY SNYDER

International class [B65D1/02 B65D23/12 B65D69/00](#) (Advanced/Invention)
(IPC 8-9).

CPC: [B65D23/12 B65D1/0284](#)

US class: [1/1 206/223 215/376](#)

[Classification Explorer](#)

Cited documents: WO05009849 A1, US8002129 BA, US7789255 BB, US7404345 BA, US5402907 A, US5301833 A, US5244106 A, US5180079 A, US5040719 A, US5036446 A, US4976299 A, US4620330 A, US4444324 A, US4416381 A, US4040538 A, US2374092 A, US2011049167 AA, US2009193890 AA, US2008116164 AA, US2008011710 AA, US2002040883 AA,

Abstract:

Source: US2013327661A A bottle that include adaptive measuring equipment. The bottle having a container, a securing device, and a measuring receptacle. The securing device is received and secured by the container, while the measuring receptacle includes a securing mechanism that removably secures to the measuring receptacle.

80) Family number: 1295955 (US3964643A)

© PatBase

Title: UNPRESSURIZED CONTAINER FOR HOLDING A PLURALITY OF PRODUCTS SEPARATELY AND DISPENSING THEM SIMULTANEOUSLY**Priority:** FR19730046537 19731227 FR19740039496 19741203

Family:	Publication number	Publication date	Application number	Application date
	<u>DE2461617 A1</u>	19750710	DE19742461617	19741227
	<u>DE2461617 C2</u>	19900215	DE19742461617	19741227
	<u>FR2269278 A5</u>	19751121	FR19730046537	19731227
	<u>FR2293375 A2</u>	19760702	FR19740039496	19741203
	<u>FR2293375 B2</u>	19810529	FR19740039496	19741203
	<u>GB1469009 A</u>	19770330	GB19740055835	19741224
	<u>US3964643 A</u>	19760622	US19740537106	19741223

Probable Assignee: OREAL**Assignee(s):^(std):** OREAL**Assignee(s):** OREAL FR ; L OREAL ; L OREAL PARIS FR ; LOREAL**Inventor(s):^(std):** MORANE BRUNO R ; GUERET JEAN LOUIS H ; MORANE BRUNO ; GUERET JEAN LOUIS**Inventor(s):** GUERET JEAN LOUIS PARIS FR ; BRUNO MORANE ET JEAN LOUIS GUERET**International class**
(IPC 8-9): B65D81/32 (Advanced/Invention);
B65D81/32 (Core/Invention)**International class**
(IPC 1-7): B65D25/08 B65D35/22 B65D37/00 B65D81/32**CPC:** Y10S215/08 B65D81/3222**European class:** B65D81/32C1**US class:** 206/219 215/DIG.8 222/129 222/145 222/189.06 222/541.6[Classification Explorer](#)**Cited documents:** US3813534 A, US3764796 A, US3584211 A, US3576987 A, US3068154 A, US3047195 A, US2808184 A, US2783091 A, US2619448 A, US1332985 A,**Forward Citations:** WO09079543, WO09079543, WO08092068, WO08092068, WO05096874, WO02062173, WO0151360, USD604050, USD419776, US9694945, US8931665, US8910830, US8790366, US8631941, US8585308, US8434643, US8403178, US8262608, US8100294, US7976234, US7637679, US7581899, US7243660, US7128241, US6705790, US6676322, US6655388, US6637967, US6616019, US6595940, US6592281, US6478191, US6455064, US6428234, US6428233, US6425704, US6376019, US6372816, US6340097, US6322852, US6269979, US6099807, US5568988, US5554197, US5335827, US5332124, US5289949, US5020694, US4894269, US4893730, US4850729, US4527687, US4390333, US4340097, US4265280, US4227611, US4093067, US2015136622, US2011284583, US2011248045, US2009311028, US2009255953, US2009196675, US2009152296, US2009152295, US2009152267, US2009125057, US2008029556, US2007292195, US2007253761, US2006113318, US2005255425, US2005211261, US2005196431, US2005186135, US2005111900, US2004234450, US2004221864, US2003063944, US2002018689, JP2007524493, FR2475010, FR2473108, FR2411769, EP2955130, EP1250263, EP0170526, DE3834566, DE3142321, DE102006034272,**Abstract:**

Source: US3964643A Unpressurized container for holding a plurality of products separately and dispensing them simultaneously comprises a deformable outer jacket, a rigid frangible tube so positioned within the outer jacket that it may be ruptured by flexing the outer jacket.

0) US3840136A – CLOSURE WITH FRACTURABLE AUXILIARY CONTAINER

81) Family number: 19233473 (US3840136A)

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Title: CLOSURE WITH FRACTURABLE AUXILIARY CONTAINER

Priority: DE19722240030 19720816 IT19720020196 19720203 IT19730019039 19730109
IT19730020196 19730418 IT19730019089 19730109

Family:

Publication number	Publication date	Application number	Application date
AT321149 B	19750310	AT19730000530	19730122
BE794915 A	19730802		00000000
BE794915 A1	19730802	BE19730127199	19730202
BR7300822 A0	19731025	BR19730000822	19730202
CA1008409 A1	19770412	CA19730162836	19730202
CH567978 A	19751015	CH19730000847	19730122
DE2240030 A1	19730816	DE19722240030	19720816
DE2240030 B2	19800911	DE19722240030	19720816
DE2240030 C3	19810619	DE19722240030	19720816
DE2363054 A1	19740815	DE19732363054	19731219
DE7230110 U	19721130	DE1972030110U	19720816
DE7344888 U	19740627	DE1973044888U	19731219
DK131417 B	19750714	DK19730000560	19730202
DK131417 C	19751201	DK19730000560	19730202
ES411236 A1	19751201	ES19730411236	19730202
FR2170772 A5	19730914	FR19730003819	19730202
GB1403274 A	19750828	GB19730005266	19730202
IT1045455 A	19800510	IT19730019089	19730109
IT948526 A	19730611	IT19720020196	19720203
JP48087973 A2	19731119	JP19730013634	19730202
NL7301512 A	19730807	NL19730001512	19730202
NO135744 B	19770214	NO19730000415	19730201
NO135744 C	19770525	NO19730000415	19730201
SE395663 B	19770822	SE19730001470	19730202
SE395663 C	19771201	SE19730001470	19730202
SE7301470 A	19730804	SE19730001470	19730202
US3840136 A	19741008	US19730329021	19730202

Probable Assignee: DOLORGIET ARZNEIMITTELFABRIK

Assignee(s):^(std): DOLL GES MIT BESCHRAENKTER HAF ; DOLL K G ; DOLORGIET ARZNEIMITTELFAB P DO ; DOLL GMBH ; DELORGIET ARZNEIMITTELFABRIK P ; DOLORGIET ARZNEIMITTELFAB DOLL P KG DT ; DOLORGIET ARZNEIMITTELFABRIK ; DOLORGIET ARZNEIMITTELFABRIK D ; DOLORGIET ARZNEIMITTELFABRI KG ; DOLORGIET ARZNEIMITTELFABRIK DOLL P KG ; DOLORGIET KG ARZNEIMITTELFABRI ; DOLORGIET KG ARZNEIMITTELFABRIK ; INGE SPA ; SOLORGIET KG ; DOLORGIET ARNEIMITTELFABRIK D

Assignee(s): DOLL KG ; INGE S P A MAILAND ITALIEN ; INGE MAILAND ITALIEN SPA ; INGE S P A ; INGE SPA MAILAND ITALIEN ; INGE SPA IT ; INGE S P A MILANO IT ; LANFRANCONI ANTONIO ; SCHAER WOLFGANG ; TESTAGUZZA FRANCO ; ZANIBELLI FRANCO ; INGE IT SPA ; DOLORGIET ARZNEIMITTELFABRIK PETER DOLL KG ; DOLORGIET ARZNEIMITTELFABRIK PETER ; DOLORGIET ARZNEIMITTELFABRIK PETER DOLL K G ; DOLORGIET ARZNEIMITTELFABRIK PETER DOLL KG 5300 BONN BAD GODESBERG ; DOLORGIET ARZNEIMITTELFABRIK PETER DOLL KG 5300 BONN ; DOLORGIET ARZNEIMITTELFABRIK PETER DOLL KG 5300 BONN DE ; DOLORGIET ARZNEIMITTELFABRIK PETER DOLL 5300 BONN BAD GODESBERG KG ; DOLORGIET ARZNEIMITTELFABRIK PETER DOLL 5300 BONN KG ; DOLORGIET ARZNEIMITTELFABRIK PETER DOLL 5300 BONN DE KG ; DOLORGIET

ARZNEIMITTELFABRIK PETER DOLL KG 5300 BO ; DOLORGIET ARZNEIMITTELFABRIK P DOLL KG ; DOLORGIET ARZNEIMITTELFABRIK DOLL P KG ; DELORGIET ARZNEIMITTELFABRIK PETER DOLL KG ; DOLL GMBH DT ; DOLL GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG ; DOLL GES MIT BESCHRAENKTER HAFTUNG ; DOLL GES MIT BESCHRAENKTER HAFTUNG

Inventor(s):^(std): A LANFRANCONI ; ANTONIO LANFRANCONI ; FRANCO TESTAGUZZA ; FRANCO ZANIBELLI ; FTESTAGUZZA ETFZANIBELLI ; F TESTAGUZZA ; LANFRANCONI A IT ; LANFRANCONI ANTONIO SCHAEFER ; SCHAEFER W DT ; TESTAGUZZA W ; W SCHAEFER ; W SCHAEFER ; WOLFGANG SCHAEFER ; WONIGSWINTER SCHAEFER ; ZANIBELLI F IT ; ZANIBELLI FRANKCO ; ZANIBELLI FRANCO ; ZANIBELLI F TESTAGUZZA ETF ; ZANIBELLI F ; TESTAGUZZA FRANCO ; TESTAGUZZA F ; SCHAEFER W ; SCHAEFER WOLFGANG ; SCHAEFER W ; SCHAEFER WOLFGANG ; SCHAEFER W ; LANFRANCONI ANTONIO ; LANFRANCONI A ; LANFRANCON ANTONIO ; TESTAGUZZA F DT

Inventor(s): TESTAGUZZA FRANCO 5300 BAD GODESBERG ; TESTAGUZZA FRANCO 5300 BAD GODESBERG DE ; TESTAGUZZA FRANCO 5300 BONN BAD GODESBERG ; ZANIBELLI FRANCO MAILAND ITALIEN ; ZANIBELLI FRANCO MILANO IT ; ZANIBELLI FRANKCO MAILAND ITALIEN ; SCHAEFER WOLFGANG 5330 KOENIGSWINTER ; SCHAEFER WOLFGANG 5330 KOENIGSWINTER DE ; SCHAEFER WOLFGANG 5340 BAD HONNEF ; SCHAEFER W DT ; LANFRANCONI ANTONIO MAILAND ITALIEN ; LANFRANCONI ANTONIO MILANO IT ; F ZANIBELLI ; LANFRANCON ANTONIO MAILAND ITALIEN ; F

International class
(IPC 8-9): B65D25/08 B65D41/04 B65D41/28 B65D41/32 B65D51/22 B65D51/28
B65D81/32 (Advanced/Invention);
B65D25/04 B65D41/02 B65D41/04 B65D41/32 B65D51/18 B65D51/24
B65D81/32 (Core/Invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): A61J1/?? A61J1/00 B01J4/00 B65D1/04 B65D25/08 B65D39/04 B65D41/04 B65D41/08
B65D41/28 B65D41/32 B65D51/22 B65D51/28 B65D81/32 B67B

CPC: Y10S215/08 B65D81/3222 B65D51/226 B65D51/227 B65D51/285 B65D2251/0015
B65D2251/0056 B65D2251/0087

European class: B65D51/22 L65D251/00Y2D L65D251/00Y4J L65D251/00Y6J

US class: 206/222 215/0.6 215/257 215/6 215/DIG.8 222/83.5

[Classification Explorer](#)

Cited documents: US3747793 A, US3675805 A, US3650428 A, US3603469 A, US3517847 A, US3156369 A, US3073472 A, US2941689 A, US2765945 A, IT699868 A, AU244119 A1,

Forward Citations: WO9838104, WO12063140, WO10143617, WO06025022, WO06025022, WO05095221, WO03059773, WO03059773, USRE29916, USD672237, US9242772, US9049885, US8960424, US8915371, US8801688, US8757408, US8690419, US8523837, US8522968, US8356711, US8167155, US8141700, US8104633, US8083055, US7900787, US7874420, US7337921, US7210575, US7178683, US6832682, US6598762, US6543654, US6513668, US6488169, US6364103, US6148996, US6092649, US5954233, US5811060, US5697702, US5688046, US5525299, US5474209, US5114011, US5038951, US5029718, US4903865, US4858760, US4786279, US4781679, US4720351, US4618444, US4614267, US4606734, US4601704, US4530437, US4465183, US4315570, US4221291, US4195731, US4132308, US4053648, US4024952, US3991908, US2014044848, US2013263424, US2011278184, US2011019499, US2010200437, US2010163509, US2010089860, US2009114615, US2009020535, US2008312588, US2008223740, US2007199838, US2004112770, US2003132244, JP64070367, JP1070367, ITMO20100326, GB2405868, GB2388363, GB2146007, GB2127387, EP1730048, EP1037811, EP0963325, EP0597414, EP0577200, EP0356758, EP0338349, EP0327519, EP0093090, CN104176369, CN104176369, CN103298710, CN103298710, AU661402,

Abstract:

Source: US3840136A This disclosure relates to a closure for hermetically sealing bottles, flasks and the like having a peripheral skirt and an end panel, and an auxiliary container internally of the peripheral skirt in generally suspended relationship from the end panel, a product and a cutter housed within the auxiliary container whereby upon the depression of the cutter a bottom closed wall of the auxiliary container is ruptured and the product therewithin is dispensed into a main container carrying the closure, and the auxiliary container being further so constructed as to provide hermetic sealing of both the main or auxiliary containers for separate storage of a product in each, further providing a hermetic seal during the admixture of the products, and finally maintaining a hermetic seal during repeated reclosures.

82) Family number: 28231096 (US2002074347A)

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Title: MULTI-COMPARTMENT CONTAINER AND DISPENSING DEVICE

Priority: US20000233038P 20000915 US20000244307P 20001030 US20010278124P 20010323
US20010949950 20010910 WO2001US28058 20010907 WO2001US28058 20010907

Family:	Publication number	Publication date	Application number	Application date
	<u>AT281988 E</u>	20041115	AT20010970689T	20010907
	<u>AU2001290668 AA</u>	20020326	AU20010290668	20010907
	<u>AU200190668 A1</u>	20020326	AU20010090668	20010907
	<u>AU200190668 A5</u>	20020326	AU20010090668	20010907
	<u>BRPI0113899 A</u>	20030708	BR2001PI13899	20010907
	<u>CA2421644 AA</u>	20030307	CA20012421644	20010907
	<u>CN1452582 A</u>	20031029	CN20018015121	20010907
	<u>DE60107101 D1</u>	20041216	DE20016007101	20010907
	<u>DE60107101 T2</u>	20051201	DE20016007101T	20010907
	<u>EP1318951 A1</u>	20030618	EP20010970689	20010907
	<u>EP1318951 B1</u>	20041110	EP20010970689	20010907
	<u>ES2231547 T3</u>	20050516	ES20010970689T	20010907
	<u>JP2004509026 T2</u>	20040325	JP20020526672T	20010907
	<u>MXPA03002233 A1</u>	20030624	MX2003PA02233	20010907
	<u>US2002074347 AA</u>	20020620	US20010949950	20010910
	<u>WO222467 A1</u>	20020321	WO2001US28058	20010907

Probable Assignee: PROCTOR AND GAMBLE CO

Assignee(s):^(std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; PROCTOR AND GAMBLE CO ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; TUTHILL LYLE BROWN ; VANGEEL FILIP DOMINIQUE HUBERT ; AZANNI JEAN LUC ; CALVI RICCARDO ; MURRAY CHARLES DOUGLAS

Inventor(s):^(std): CALVI R ; CALVI RICCARDO ; AZANNI J L ; AZANNI JEAN LUC ; AZZANI JEAN LUC ; MURRAY C D ; MURRAY CHARLES DOUGLAS ; MURRAY DOUGLAS ; TUTHILL BROWN ; TUTHILL LYLE BROWN ; VANGEEL DOMINIQUE ; VANGEEL FILIP DOMINIQUE HUBERT

Inventor(s): R CALVI ; RICCARDO CALVI ; C D MURRAY ; CD MURRAY ; CHARLES DOUGLAS MURRAY ; FILIP DOMINIQUE HUBERT VANGEEL ; J L AZANNI ; JEAN LUC AZANNI ; JL AZANNI ; LYLE BROWN TUTHILL

Agent(s): DIMOCK STRATTON LLP; NAGAI HIROSHI

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

International class B65D1/04 B65D23/10 B65D77/08 B65D81/32 (Advanced/Invention)
(IPC 8-9):

International class B65D1/04 B65D23/10 B65D77/08 B65D81/32 B67D5/56
(IPC 1-7):

CPC: B65D1/04 B65D23/102 B65D23/104 B65D23/106 B65D81/3283

European class: B65D1/04 B65D23/10B B65D23/10D B65D23/10D2 B65D81/32L

US class: 222/129

[Classification Explorer](#)

Cited documents: WO9829320 A1, WO9407748 A2, US5882574 A, US5637167 A, US5579957 A, US5490608 A, US5289950 A, US5252312 A, US5223245 A, US3877877 A, US3756470 A, JP9308444, JP7257661, EP1153881 A1, EP0884249 A1, EP0703153 A2,

Forward Citations: WO16032460, WO05056427, WO05054069, WO05054069, WO04053042, WO04045968, WO04018319, WO04014760, USD766738, USD710712, USD501139, USD490700, US9751248, US9718582, US9701460, US9546347, US8528761, US8486380, US8445247, US8367597, US8337905, US8334120, US8304218, US8293221, US8283142, US8252562, US8222012, US8148316, US8148314, US8105810, US8062875, US8030038, US7448556, US6758411, US6583103, US5916655, US2016122066, US2015148277, US2014263448, US2011210039, US2010102023, US2009081755, US2008269098, US2008011783, US2007123444, US2007014898, US2006151352, US2006113269, US2005181963, US2005161424, US2005043199, US2005009726, US2004262174, US2004262173, US2004065565, CN103848029, CN102502033, AU2005273764,

Abstract:

Source: US2002074347A Multi-compartment container having a septum extending from the bottom of the container up through the neck to the container opening. A closure seals the container from leakage and prevents internal contamination between compartments. The container may be blow molded in a single manufacturing step.

83) Family number: 42107560 (BRPI0605584A)

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Title: APERFEICOAMENTOS INTRODUZIDOS EM SISTEMA DE FECHAMENTO PARA EMBALAGENS DISPENSADORAS EM GERAL IMPROVEMENTS INTRODUCED IN CLOSURE SYSTEM FOR PACKAGING IN GENERAL dispensing (Machine translation)

Priority: BR2006PI05584 20061221

Family:	Publication number	Publication date	Application number	Application date
	<u>BRPI0605584 A</u>	20080812	BR2006PI05584	20061221

Probable Assignee: SIEMOLD COM E SOLUCOES INTELIG

Assignee(s):^(std): SIEMOLD COM E SOLUCOES INTELIG

Assignee(s): SIEMOLD COMERCIO E SOLUCOES INTELIGENTES LTDA

Inventor(s):^(std): GUERRA AMAURI CARDOSO

Inventor(s): AMAURI CARDOSO GUERRA

International class B65D51/18 (Advanced/Invention);
(IPC 8-9): B65D51/18 (Core/Invention)

[Classification Explorer](#)

Abstract:

Source: BRPI0605584A RESUMO "APERFEICOAMENTOS INTRODUZIDOS EM SISTEMA DE FECHAMENTO PARA EMBALAGENS DISPENSADORAS EM GERAL", embalagens (1) estas dispensadoras de produtos liquidos, pastosos ou 5 solidos, e que sao configuradas por corpo (IA) e tampa (1B), a tampa (1B) sendo provida de uma ou mais aberturas laterais (2) dispostas junto a sua parede superior, ou ligeiramente afastadas da referida – parede superior, em numero, dimensoes e formatos variados, e vedadas por 10 prolongamento superior cilindrico (3) previsto no gargalo (IAx) do corpo (IA); na face inferior da parede superior (1B3) da tampa (1B), e previsto anel conico (4), coincidente com a borda superior livre do prolongamento cilindrico superior (3) do gargalo (IAi) do corpo (IA) 15 (boca do frasco), e nele encaixavel. ABSTRACT "improvements made ON CLOSURE SYSTEM FOR PACKAGING Vending IN GENERAL" packaging (1), these dispensing of liquids, pastes or five solids, which are set by the body (IA) and cover (1B), the cover (1B) being provided with one or more lateral apertures (2) arranged along its upper wall, or slightly spaced from said – upper wall in number, dimensions and varying shapes and sealed by top 10 extending cylindrical (3) provided in bottleneck (LAX) from the body (IA); the underside of the top wall (1B3) of the cap (1B) and predicted conical ring (4), coinciding with the free upper edge of the upper cylindrical extension (3) of the neck (LAI) of the body (IA) 15 (mouth bottle), and press-fit it.

Title: DISPENSING CLOSURE FOR A CONTAINER**Priority:** BR19710008103 19711207

Family:	Publication number	Publication date	Application number	Application date
	AR193981 A1	19730612	AR19720240279	19720128
	BR7108103 A0	19730426	BR19710008103	19711207
	DE2233565 A1	19730620	DE19722233565	19720707
	DE2233565 B2	19770331	DE19722233565	19720707
	DE2233565 C3	19771117	DE19722233565	19720707
	GB1374364 A	19741120	GB19720027246	19720612
	HK40077 A	19770805	HK19770000400	19770728
	JP48065550 A2	19730910	JP19720072432	19720719
	JP52005110 B4	19770209	JP19720072432	19720719
	JP880549 C3	19770831	JP19720072432	19720719
	US3776433 A	19731204	US19720265008	19720621

Probable Assignee: BRASIL IND TERMICA**Assignee(s):**^(std): BRASIL IND TERMICA ; IND TERMICA BR SOS ANON ; IND TERMICA BRASILEIRA S A ; IND TERMICA BRASILEIRA SA**Assignee(s):** TERMOLAR S A ; IND TERMICA BRASILEIRA SA BR ; INDUSTRIA TERMICA BRASILEIRA SA ; INDUSTRIA TERMICA BRASILEIRA S A PORTO ALEGRE RIO ; INDUSTRIA TERMICA BRASILEIRA S A ; INDUSTRIA TERMICA BRASILEIRA S A PORTO ALEGRE RIO GRANDE DO SUL BRASILIEN ; INDUSTRIA TERMICA BRASILEIRA S A PORTO ALEGRE RIO GRANDE DO SUL (BRASILIEEN)**Inventor(s):**^(std): DE TREITAS E**Inventor(s):** DE TREITAS E BR ; DE FREITAS E**International class**
^(IPC 8-9): [A47J41/00 A47J41/02 B65D47/24 B65D47/26](#) (Advanced/Invention);
[A47J41/00 B65D47/04](#) (Core/Invention)**International class**
^(IPC 1-7): [A47J41/00 A47J41/02 B65D47/28 B65D47/30](#)**CPC:** [A47J41/0016 A47J41/0027 B65D47/246](#)**European class:** [A47J41/00C5 B65D47/24C1 K47J41/00C3](#)**US class:** [222/519 251/215](#)[Classification Explorer](#)**Cited documents:** US3140799 A, US3015403 A, US2484148 A, US1795737 A, BE632376 A,**Forward Citations:** USD688912, US9745110, US9504349, US9215942, US8640899, US7448518, US7021506, US6736295, US5909820, US5799839, US5086522, US4979654, US4930688, US4919309, US4895281, US4754888, US4658973, US4497422, US4489840, US2016215978, US2011309094, US2011174830, US2010016824, US2009308878, US2007114251, US2003218032, US2003209563, JP51134863, EP1693310, DE2909332,**Abstract:**

Source: US3776433A For a container such as a vacuum or THERMOS bottle, a dispensing closure including a mouthpiece secured such as by threads onto the neck of the bottle and having an inverted conical surface for receiving a complementary shaped conical surface on a stopper for closing the container. Depending from the inverted conical surface of the mouthpiece and extending into the neck of the bottle is a cylindrical skirt having internal threads for receiving a threaded sleeve projecting from the stopper whereby the stopper may be axially moved relative to the mouthpiece to seat and unseat said conical surfaces for opening and closing the bottle. In one embodiment, the contents of the bottle are conveyed to the annular space defined by said conical surfaces when unseated, by a series of annularly arranged holes in the inverted conical surface of the mouthpiece. In another embodiment, the contents of the container are conveyed to said annular space through holes formed in

the sleeve of the stopper, the latter being hollow. In both embodiments, an annular gasket is inserted between the top annular edge of the neck of the bottle and the overlying portion of the mouthpiece; and the stopper is formed in two pieces with a hollow interior filled with a thermic insulating material.

85) Family number: 28314950 (US2002121525A)

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Title: Drink spout system**Priority:** US20010273781P 20010305 US20010895059 20010629 WO2002US06169 20020227
US20020177388 20020619 US20010899579 20010705

Family:	Publication number	Publication date	Application number	Application date
	<u>AU2002255626 AA</u>	20020919	AU20020255626	20020227
	<u>US2002121525 AA</u>	20020905	US20010895059	20010629
	<u>US2002121531 AA</u>	20020905	US20010899579	20010705
	<u>US2002166864 AA</u>	20021114	US20020177388	20020619
	<u>US6629624 BB</u>	20031007	US20010895059	20010629
	<u>US6631823 BB</u>	20031014	US20010899579	20010705
	<u>WO02070353 A2</u>	20020912	WO2002US06169	20020227
	<u>WO02070353 A3</u>	20030724	WO2002US06169	20020227

Probable Assignee: ACORN PRODUCTS LLC**Assignee(s):^(std):** ACORN BAY LLC ; PANEC DONALD J ; STILLINGER SCOTT H**Assignee(s):** ACORN PRODUCTS LLC ; ACORN BAY**Inventor(s):^(std):** PANEC DONALD J ; STILLINGER SCOTT H**Inventor(s):** SCOTT H STILLINGER ; DONALD J PANEC**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 EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR
HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML
MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ
TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW**International class**
(IPC 8-9): B65D47/20 B65D47/24 B65D47/32 (Advanced/Invention)**International class**
(IPC 1-7): A47G19/22 B65D B67D3/00 B67D5/06**CPC:** B65D47/2025 B65D47/2037 B65D47/2081 B65D47/248 B65D47/32**European class:** B65D47/20E1 B65D47/20E2B B65D47/20E4B B65D47/24E B65D47/32**US class:** 220/254.7 220/254.9 220/705 220/714 220/717 222/490 222/511 222/525[Classification Explorer](#)**Cited documents:** WO9937552, WO9845184, WO0016668, WO0016667, US6378742 BA, US6367668,
US6341721 BA, US6305570 BA, US6299027 BA, US6299027, US6269968 BA,
US6269968, US6227419 BA, US6213351 BA, US6135311 A, US6102245 A, US6079589
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US2107442 A, US1550305 A, JP45037339, GB688531, GB2217677, GB2109870, GB2028779, EP0586787, EP0385603, DE586787, DE31659, DE19650706, DE19640629, DE1486403, DE1087968,

Forward Citations: WO17035037, WO14194552, WO14100345, WO12020286, WO08065879, WO07109863, WO07030203, WO07030203, WO06018489, WO05047172, WO05039999, WO05026012, WO05000683, WO05000683, WO04065247, WO04064578, USRE40393, USD699064, USD642867, USD619851, USD499793, US9694954, US9669971, US9609969, US9585810, US9555937, US9308150, US9138088, US9061813, US9033311, US8807388, US8657148, US8608017, US8540112, US8333299, US8286826, US8220650, US8167174, US8100285, US8091864, US8091798, US8033889, US7959023, US7753225, US7721759, US7703634, US7575126, US7419069, US7402092, US7350666, US7070065, US6932239, US6928824, US6726047, US2015368007, US2015083759, US2014290793, US2014054330, US2014001212, US2013233869, US2012273521, US2012095392, US2011079570, US2010294765, US2010294764, US2010127006, US2010084397, US2010065584, US2009302073, US2009289026, US2009261116, US2009194030, US2008302828, US2008290060, US2008283485, US2008029557, US2007246379, US2007145060, US2007145058, US2007138423, US2007053617, US2007051723, US2007034594, US2006272077, US2006169694, US2006113276, US2006060591, US2005199637, US2005097913, US2004011800, JP4869039, JP2008132013, GB2513006, FR2873358, EP3020648, EP2700588, EP2130472, EP1675779, EP1663805, EP1585683, CN105050908, CN102871481, AU2012202351, AU2004272472, AU2003289746, AU2003289746, AT413979, AT413978,

Abstract:

Source: US2002121525A Drink spout systems and drink containers that include a drink spout system. In some embodiments, the drink spout system includes an air return system to permit improved dispensing from the drink container. In some embodiments, the drink spout system is actuated by a user sucking on the system. In others, the system is actuated by a user depressing or bending at least a portion of the system. In still others, the system is actuated by other user-imparted forces to the system. In some embodiments, the drink spout system includes a biasing system adapted to preload the system's valve assembly to a closed configuration. In some embodiments, the drink spout system includes components formed from different materials via two-shot molding or a similar process, and in some embodiments, the materials used are selected to provide improved opening of the systems' valve assembly.

0) US5493873A – LIQUID DISPENSING DEVICE

86) Family number: 12088823 (US5493873A)

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Title: Liquid dispensing device

Priority: US19930139414 19930920 US19930139414 19931020 US19950472118 19950607
 US19950472814 19950607 US19930139469 19931020 US19930139469 19930920
 WO1994US11786 19941018 US19990349758 19990708 US19960756064 19961125
 WO1994US11888 19941018

Family:

Publication number	Publication date	Application number	Application date
<u>AU199480800 A1</u>	19950508	AU19940080800	19941018
<u>AU199481215 A1</u>	19950508	AU19940081215	19941018
<u>BRPI9407864 A</u>	19961029	BR1994PI07864	19941018
<u>BRPI9407871 A</u>	19961029	BR1994PI07871	19941018
<u>CA2174423 AA</u>	19960417	CA19942174423	19941018
<u>CA2174423 C</u>	19971223	CA19942174423	19941018
<u>CA2174505 AA</u>	19960418	CA19942174505	19941018
<u>CL1994001521 A1</u>	19950922	CL19940001521	19941019
<u>CL1994001522 A1</u>	19950922	CL19940001522	19941019
<u>EP0719102 A1</u>	19960703	EP19940931875	19941018
<u>EP0719102 A4</u>	19970402	EP19940931875	19941018
<u>EP0723524 A1</u>	19960731	EP19950900375	19941018
<u>EP0723524 A4</u>	19970402	EP19950900375	19941018
<u>IL111255 A0</u>	19941229	IL19940111255	19941011
<u>IL111255 A1</u>	19990312	IL19940111255	19941011
<u>IL111256 A0</u>	19941229	IL19940111256	19941011
<u>TW295100 Y</u>	19970101	TW19940213643U	19941024
<u>TW300561 Y</u>	19970311	TW19940213642U	19941024
<u>US5493873 A</u>	19960227	US19930139414	19931020
<u>US5553935 A</u>	19960910	US19930139469	19931020
<u>US5577393 A</u>	19961126	US19950472118	19950607
<u>US5695094 A</u>	19971209	US19950472814	19950607
<u>US6029860 A</u>	20000229	US19960756064	19961125
<u>US6123232 A</u>	20000926	US19990349758	19990708
<u>WO9510960 A1</u>	19950427	WO1994US11786	19941018
<u>WO9511194 A1</u>	19950427	WO1994US11888	19941018

Probable Assignee: SUNROC LLC

Assignee(s):^(std): ELKAY MFG CO ; ELKAY MFG CO LTD ; ELKAY MFG CO CO LTD

Assignee(s): ELKAY MFG CO CO ; ELKAY MANUFACTURING COMPANY CO LTD US ; SUNROC LLC ; SUNROC CORP ; WENDT DAVID W ; ELKAY MFG ; SLOAN SCOTT E ; SUCHANEK STEVE ; SAAR ROBIN R ; ALSTAD KNUTE ; BURNHAM LOWELL C ; DONSELMAN EDWARD H ; ELKAY MANUFACTURING CO LTD US ; ELKAY MANUFACTURING COMPANY

Inventor(s):^(std): DONSELMAN EDWARD H ; ALSTAD KNUTE ; BURNHAM LOWELL C ; SAAR ROBIN R ; SLOAN SCOTT E ; SUCHANEK STEVE ; WENDT DAVID W

Inventor(s): STEVE SUCHANEK ; SCOTT E SLOAN ; DAVID W WENDT ; EDWARD H DONSELMAN ; KNUTE ALSTAD ; LOWELL C BURNHAM ; ROBIN R SAAR

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; MARKS AND CLERK; BARROS; REINHOLD COHN AND PARTNERS

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL NO PT SE

International class
(IPC 8-9): A47B47/00 B65D19/30 B67D1/00 B67D3/00 B67D5/02 B67D5/62 B67D5/64 (Advanced/Invention);
B65D19/22 B67D3/00 (Core/Invention);
B67D1/00 B67D5/02 B67D5/64 (Core/Non-invention)

International class
(IPC 1-7): A47B A47B47/00 B67D1/00 B67D3/00 B67D5/02 B67D5/06 B67D5/62 B67D5/64

CPC: B67D3/00 B67D3/0009 B67D3/0032 B67D3/0038 B67D2210/00005

European class: B67D3/00 B67D3/00C B67D3/00H2 B67D3/00K L67D210/00B2

US class: 141/363 141/364 141/366 222/146.1 222/146.5 222/146.6 222/185.1 222/325 222/481.5 222/609 312/264 312/265.3 312/265.5 312/265.6 62/389 62/390 62/395

[Classification Explorer](#)

Cited documents: WO9003919 A1, USRE32354, USRE12352, US996127 A, US738712 A, US5711380 A, US5676278 A, US5653270 A, US5577393 A, US5553935 A, US5542555 A, US5533647 A, US5526961 A, US5493873 A, US5464127 A, US5431205 A, US5413152 A, US5392939 A, US5370270 A, US5368197 A, US5360263 A, US5337922 A, US5295519 A, US5295518 A, US5289855 A, US5289854 A, US5284188 A, US5273083 A, US5246141 A, US5232125 A, US5222531 A, US5222530 A, US5213309 A, US5121778 A, US5105992 A, US5031676 A, US4991635 A, US497896 A, US4972976 A, US4903865 A, US4902320 A, US4881380 A, US4874023 A, US4846236 A, US4834267 A, US4830223 A, US4821875 A, US4805808 A, US4793514 A, US4782972 A, US4779426 A, US4717051 A, US4712844 A, US4711380 A, US4699188 A, US4697785 A, US4629096 A, US4597509 A, US4597423 A, US4573329 A, US4538427 A, US4535604 A, US4523698 A, US4497524 A, US4484599 A, US4445551 A, US4444340 A, US4436125 A, US4421146 A, US4391308 A, US4356848 A, US4320861 A, US4267945 A, US4239130 A, US4199204 A, US3974863 A, US3966093 A, US3955682 A, US3893599 A, US3892235 A, US3856374 A, US3843021 A, US3445039 A, US32354 A, US3224609 A, US3195779 A, US3088289 A, US2912142 A, US2858052 A, US2811272 A, US2767960 A, US2689669 A, US2192862 A, US2108898 A, US2072629 A, US2057238 A, US1976007 A, US1940932 A, US1933192 A, US1337206 A, US1325427 A, US1319376 A, US1248705 A, US1241352 A, US12352 A, US1228836 A, US1142210 A, US1018924 A, US1009437 A, DE2323308 A1, CA642359 A, CA631376 A,

Forward Citations: WO9851970, WO9851970, WO07133053, WO0143089, USD688079, USD677509, USD643668, USD643667, USD643666, USD643240, USD643239, USD642849, USD623885, USD617132, USD608129, USD582194, USD448974, US9403304, US9151397, US8991425, US8985146, US8931500, US8857669, US8739826, US8695625, US8590572, US8469056, US8464748, US8365770, US8356731, US8281821, US8104512, US7992590, US7967940, US7934494, US7909197, US7895938, US7819137, US7806141, US7793677, US7766043, US7748409, US7717133, US7434603, US7415991, US7406980, US7306723, US7237598, US7207189, US7014759, US6988511, US6904929, US6871675, US6772807, US6763676, US6648180, US6619511, US6557735, US6418742, US6167921, US6123232, US6101835, US5979709, US5706883, US5695094, US5692814, US5577393, US2015061474, US2012318823, US2011016625, US2011005624, US2010252574, US2010071778, US2009277535, US2009229746, US2009126820, US2009126392, US2009020177, US2008308165, US2008277370, US2008178957, US2008178950, US2008178942, US2008054017, US2008053564, US2007271695, US2007267100, US2007044852, US2006113258, US2006080992, US2006080991, US2005224133, US2005006405, US2005000878, US2004261865, US2004251277, US2004231720, US2003217564, US2002195141, US2002092813, SG109963, JP4743558, JP2009537405, GB2417025, GB2373237, GB2373237, FR2769610, EP1677061, EP1677061, EP1314686, EP1241127, EP0905084, EP0695278,

Abstract:

Source: US5493873A A liquid dispenser is provided including a cabinet housing a liquid reservoir open at its upper end and readily releasable from engagement with the evaporator coil of a refrigeration unit for removal from the cabinet. The reservoir is surrounded by insulation which may be removed in sections. The dispenser also includes a removable valve assembly with inlet couplings press-fit to the reservoir outlets and to the inlets and outlets of a hot tank removably suspended below the valve assembly and liquid reservoir. The hot tank may be pivoted down and shifted away from the valve assembly to facilitate removal of the latter. The valve operating lever for the hot water discharge is provided with a safety interlock catch to prevent inadvertent discharge of hot water from the valved faucet. The hot tank drain is also provided with a recessed cam-operated compression valve to facilitate authorized draining of the hot tank with a suitable cam engaging tool but to preclude inadvertent draining of the hot tank by a child. The dispenser may be used as a conventional inverted bottled water cooler or fitted with an adapter including a dispensing feed tube for opening and closing special no-spill type bottle caps.

87) Family number: 16910257 (US4568004A)

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Title: Container allowing drop by drop dispensing of a dose of a fluid substance**Priority:** EP19830402293 19831129 FR19830000434 19830113

Family:	Publication number	Publication date	Application number	Application date
	AT20718 E	19860815	AT19830402293T	19831129
	DE0114007 T1	19850228	DE19830402293T	19831129
	DE3364544 D1	19860821	DE19833364544	19831129
	EP0114007 A1	19840725	EP19830402293	19831129
	EP0114007 B1	19860716	EP19830402293	19831129
	ES276676 U	19840516	ES19840276676U	19840103
	ES276676 Y	19841216	ES19840276676U	19840103
	ES276676 Y1	19850116	ES19840276676U	19840103
	FR2539395 A1	19840720	FR19830000434	19830113
	FR2539395 B1	19850419	FR19830000434	19830113
	US4568004 A	19860204	US19830563634	19831220

Probable Assignee: OREAL**Assignee(s):^(std):** OREAL**Assignee(s):** FRENCH JOINT STOCK CO ; L OREAL ; L OREAL PARIS FR**Inventor(s):^(std):** GONCALVES ANTONIN L ; GONCALVES ANTONIN**Inventor(s):** ANTONIN GONCALVES ; GONCALVES ANTONIN F 95410 GROSLAY FR**Designated states:** AT BE CH DE GB IT LI NL SE

International class [B65D47/18](#) [B65D47/24](#) (Advanced/Invention);
 (IPC 8-9): [B65D47/04](#) [B65D47/06](#) (Core/Invention)

International class [A45D34/00](#) [B65D47/06](#) [B65D47/18](#)
 (IPC 1-7):

CPC: [B65D47/18](#) [B65D47/242](#)**European class:** [B65D47/18](#) [B65D47/24A1](#)**US class:** [222/207](#) [222/212](#) [222/422](#) [222/520](#)[Classification Explorer](#)**Cited documents:** US996330 A, US996330, US3552605 A, US3326402 A, US3298573 A, US2582026 A, US1977537 A, GB180009 A, FR987774 A, DE2810726 A1, DE2530232 A1, BE542439 A,**Forward Citations:** WO11143093, WO11143093, WO06111229, WO02072444, US9624010, US9452869, US8496635, US7165701, US7063241, US6758374, US6715697, US6565543, US6168581, US6135358, US6105828, US5655686, US5609276, US5388925, US5238153, US5092498, US4964852, US4902155, US4836416, US2015144665, US2011106024, US2009137972, US2006243696, US2006081726, US2005274744, US2005087572, NL1004336, EP1518525, EP1035030, EP0590293, DE102008034831,**Abstract:**

Source: US4568004A A container for drop-by-drop dispensing of a fluid substance comprises a bottle having a detachable stopper mounted movably on the neck of the bottle so that, in a stoppering position, discharge ports of the stopper are closed off by the neck of the bottle and in a remote position the discharge ports are open. A flexible discharge end fitting which may be squeezed to actuate dispensing of the fluid substance is a snap fit on the relatively harder stopper. The discharge end fitting is limited in its travel towards the remote position along the neck so that the two part stopper/discharge fitting unit is captive on the neck.

88) Family number: 816745 (US3374527A)

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Title: METHOD OF MAKING DISPENSING CONTAINER

Priority: FR19640975167 19640520 US19630316327 19631015 US19640404997 19640918

Family:

Publication number	Publication date	Application number	Application date
AU4454764 A1	19651118	AU19640044547	19640515
BE647935 A	19641116		19640514
FR1396738 A	19650423	FR19640975167	19640520
GB1086892 A	19671011	GB19640039863	19640930
NL6407274 A	19650420	NL19640007274	19640626
US3255937 A	19660614	US19630316327	19631015
US3374527 A	19680326	US19640404997	19640918

Probable Assignee: CONS THERMOPLASTICS CO

Assignee(s):^(std): CONS THERMOPLASTICS CO ; CONS THERMOPLASTICS COMPANY ;
CONSOLIDATED THERMOPLASTICS CO ; REXALL DRUG CHEMICAL

Assignee(s): CONSOLIDATED THERMOPLASTICS COMPANY ; REXALL DRUG AND CHEMICAL CO
; REXALL DRUG AND CHEMICAL COMPANY

Inventor(s):^(std): JARRETT CARL L

Inventor(s): CARLL JARRETT

International class [B29C17/07](#) [B65D35/08](#) [B65D35/48](#) [B65D47/20](#) [B65D47/26](#) [B65D83/06](#) (Advanced/Invention);
(IPC 8-9); [B65D35/02](#) [B65D47/04](#) (Core/Invention)

International class [B65D47/28](#) [B65D83/06](#)
(IPC 1-7);

CPC: [Y10T29/4984](#) [Y10T29/4987](#) [Y10T29/49876](#) [B65D47/265](#) [B65D35/08](#)

European class: [B65D35/08](#) [B65D47/26D4](#)

US class: [215/43](#) [222/480](#) [222/498](#) [222/512](#) [222/548](#) [222/575](#) [264/152](#) [264/161](#) [264/536](#) [264/540](#)
[29/434](#) [29/450](#) [29/453](#) [294/340](#) [D9/450](#)

[Classification Explorer](#)

Cited documents: US3124842 A, US3114596 A, US3113831 A, US3084396 A, US2975946 A, US2962758 A, US2943771 A, US2805787 A, US2715480 A, US2626885 A, US2449285 A, US2103111 A, US2029219 A, US1685147 A, US1501209 A, US1284635 A, US1141535 A, US1081555 A, US1021480 A, GB188811723 A,

Forward Citations: WO9639329, USD798656, USD518714, USD518712, USD515919, USD509430, USD509428, USD509137, USD494065, USD494064, USD447060, US9730557, US9125520, US8444894, US7984835, US5797518, US5746356, US5661889, US5213235, US5121859, US5046646, US5000361, US3886247, US3467287, US3389840, US2014034676, US2011190108, US2009152307, US2008089967, US2006016836, US2004155069, GB2121672,

Abstract:

Source: GB1086892A 1,086,892. Caps for bottles and c. REXALL DRUG and CHEMICAL CO. Sept. 30, 1964 [Oct. 15, 1963], No. 39863/64. Heading B8T. A cap with one or more discharge openings is fitted over a cylindrical portion of a one-piece bottle and c., the cylindrical portion having either an eccentric filling-opening, or a filling opening with an eccentric extension, or a filling opening with an additional eccentric opening, the arrangement allowing the cap to be rotated to bring the discharge opening or openings into or out of register with the eccentric filling opening, the eccentric extension, or the additional eccentric opening. A plastics bottle is blow moulded with a wall 20, neck 22 and a neck extension 23 which is cut off to form a star-shaped filling-opening 26 bounded by a flange 24. The cap 28, which has discharge holes 30, is snapped on to the neck 22 and held in position by a rib 25 on the neck co-operating with an internal groove in the cap. The flange 24 which is slightly conical, forms a seal against the inside of the cap and rotation of the cap brings the holes 30 into and out of register with the apices of the hole 26. In a modification, the filling opening is keyhole-shaped, and the discharge openings comprise a single opening spaced from a group of smaller openings.

Title: Closure devices with compressible core seal**Priority:** GB19930016299 19930804

Family:	Publication number	Publication date	Application number	Application date
	<u>GB2280895 A1</u>	19950215	GB19930016299	19930804
	<u>GB2280895 B2</u>	19971203	GB19930016299	19930804
	GB9316299 A0	19930922	GB19930016299	19930804

Probable Assignee: VICTORY MALCOLM G**Assignee(s):^(std):** VICTORY MALCOLM G ; VICTORY MALCOLM GORDON**Assignee(s):** MALCOLM GORDON VICTORY**Inventor(s):^(std):** VICTORY MALCOLM GORDON**Inventor(s):** MALCOLM GORDON VICTORY

International class [B65D39/12 B65D41/28 B65D47/24](#) (Advanced/Invention) ;
(IPC 8-9): [B65D39/00 B65D41/02 B65D47/04](#) (Core/Invention)

International class [B65D39/12 B65D41/28 B65D45/02](#)
(IPC 1-7):

CPC: [B65D39/12 B65D41/28 B65D47/243](#)**European class:** [B65D39/12 B65D41/28 B65D47/24A2](#)[Classification Explorer](#)**Cited documents:** US4397397 A, GB723545 A, GB2155985 A1,**Forward Citations:** WO16180908, WO0104500, US6953353, US6297741, EP3093253, EP2008942,**Abstract:**

Source: GB2280895A A closure device for a bottle or other container includes a compressible core seal 12 within or adjacent the cap 10 such that under axial pressure applied by the cap 10 through a central shaft 23, the core seal 12 expands radially to form a seal within the container neck or outlet. As shown, the seal 12 initially exerts axial pressure on the cap away from itself but when closed, passes a biasing position and then provides tension in the opposite direction to maintain the closure. Alternatively (see Figures 1, 15), the cap 10 may include means to engage the bottle and the core seal 12 is only able to exert pressure so as to push the cap away. The central shaft may be hollow to form a nozzle 73. In this case a valve plate 74 is provided with slots 75 radially outwards of the nozzle such that when in the closed position, the central shaft 23 engages the valve plate 74 to effect a seal.

Title: FLEXIBLE POURING SPOUT
Priority: US20100373228P 20100812 US20110816491 20110812 WO2011CA00915 20110812
Family:

Publication number	Publication date	Application number	Application date
AU2011288897 AA	20120216	AU20110288897	20110812
CA2808166 AA	20130212	CA20112808166	20110812
CA2808166 C	20151027	CA20112808166	20110812
EP2603447 A1	20130619	EP20110815954	20110812
US2013140334 AA	20130606	US20110816491	20110812
US9090442 BB	20150728	US20110816491	20110812
WO2012019289 A1	20120216	WO2011CA00915	20110812

Probable Assignee: ABELLTEK LTD
Assignee(s):^(std): ABELL CAMERON ; MARVEL INNOVATIONS INC
Assignee(s): ABELL CAMERON MR ; ABELLTEK LTD
Inventor(s):^(std): ABELL CAMERON
Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; ZSIGMOND OTTO; KILCHERT JOCHEN
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 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 PE PG PH PL PT QA 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
International class
 (IPC 8-9): [B60S5/02 B65D25/48 B65D47/06 B67C11/00 B67C9/00 B67D3/00 B67D7/00 B67D7/04 B67D7/06](#) (Advanced/Invention)
CPC: [B67D7/005 B65D25/48](#)
European class: [B65D25/48 B67D7/00C](#)
US class: [1/1 222/481.5 222/527](#)
[Classification Explorer](#)
Cited documents: US6450219 BA, US5934522 A, US5762117 A, US5560522 A, US5350091 A, US5269354 A, US5186358 A, US5158123 A, US5020702 A, US4600125 A, US4583668 A, US3986538 A, US2556627 A, US2011127293 AA, US196084 A, US1913895 A, DE29721467 U1,
Forward Citations: USD792214, USD762477, USD762120, US8727187, US2012234429,

Abstract:

Source: US2013140334A A flexible pouring spout of segmented tubing having an internally threaded adapter cap at one end for connecting with a threaded neck of a fluid container, and an externally threaded terminal end which is adapted to connecting with the adapter cap thereby enabling the device to form a loop of itself. Thus, the interior of the spout remains clean even if it has a sticky or oily substance thereon, and any fluid within the device is retained therein. Also provided is a sealable air inlet valve for allowing air to be drawn into the spout when in use to prevent fluid lock in the device and bottle collapse, and to facilitate rapid and efficient pouring of the fluid from its container.

91) Family number: 30831317 (US2008308554A)

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Title: PACKAGING ARTICLE**Priority:** GB20040014069 20040623 WO2005GB02480 20050623

Family:	Publication number	Publication date	Application number	Application date
	<u>EP1789337 A2</u>	20070530	EP20050755381	20050623
	GB200414069 A0	20040728	GB20040014069	20040623
	<u>US2008308554 AA</u>	20081218	US20050570956	20050623
	<u>WO06000779 A2</u>	20060105	WO2005GB02480	20050623
	<u>WO06000779 A3</u>	20060323	WO2005GB02480	20050623

Probable Assignee: DUBOIS LTD**Assignee(s):**^(std): DUBOIS LTD ; FARRAR PETER ANTONY ; HEIN JOHN ; FRASER ANTHONY HENRY JOSEPH**Assignee(s):** DUBOIS LIMITED**Inventor(s):**^(std): FARRAR PETER ANTONY ; FRASER ANTHONY HENRY JOSEPH ; HEIN JOHN**Agent(s):** MEADWESTVACO CORP

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 KP KR KZ LC LI LK LR LS LT LU LV 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

International class
^{(IPC 8-9):} B65D45/32 B65D51/18 (Advanced/Invention);
B65D45/00 B65D51/18 (Core/Invention)

International class
^{(IPC 1-7):} B65D45/32

CPC: B65D45/325 B65D45/327 B65D47/122**European class:** B65D45/32A1 B65D45/32A3 B65D47/12B**US class:** 220/281[Classification Explorer](#)**Cited documents:** US5615788 A, US4359169 A, US2002125249 AA, LU33480 A, GB800043 A, FR2172176 A1, EP0989065 A1, DE1914313 A1,

Forward Citations: WO14173556, WO07119075, US9802751, US8584877, US8360256, US2015158659, US2013134123, US2011114595, US2009184086, US2009101620, US2008308519, JP2009534259, GB2464320, GB2464320, GB2437275, EP3002228, DE102014014110, DE102013207551, AU2007238403,

Abstract:

Source: US2008308554A A beverage container comprising a container body (10) with an opening (11) and closure means (12) to close the opening (11), the closure means comprising a first part (12A) for closing the opening (11) and a second part (12B) adapted to be connected to the first part (12A) so that the first and second parts (12A, 12B) are rotatable relative to each other between a first position in which they are held together and a second position in which the second part (12B) holds the first part (12A) in a sealing relationship with the container body (10).

92) Family number: 7373177 (US4744479A)

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Title: Tamper indicating closure for bottles and the like**Priority:** CH19860002794 19860711

Family:	Publication number	Publication date	Application number	Application date
	<u>DE3762328 D1</u>	19900523	DE19873762328	19870525
	<u>EP0254673 A1</u>	19880127	EP19870810309	19870525
	<u>EP0254673 B1</u>	19900418	EP19870810309	19870525
	<u>ES2016114 B3</u>	19901016	ES19870810309T	19870525
	<u>IL82789 A0</u>	19871220	IL19870082789	19870607
	<u>IL82789 A1</u>	19910415	IL19870082789	19870607
	<u>US4744479 A</u>	19880517	US19870065836	19870623

Probable Assignee: INTERPLASTIC A CO OF SWITZERLAND AG**Assignee(s):^(std):** INTERPLASTIC AG**Assignee(s):** INTERPLASTIC AG NEUHAUSEN CH ; INTERPLASTIC A CO OF SWITZERLAND AG**Inventor(s):^(std):** SCHOETTLI THEODOR ; SCHOTTLI THEODOR**Inventor(s):** SCHOETTLI THEODOR CH 8253 DIESSENHOFEN CH**Agent(s):** WOLFF BREGMAN AND GOLLER**Designated states:** BE CH DE ES FR GB LI NL SE**International class** [B65D41/34](#) (Advanced/Invention)
(IPC 8-9):**International class** [B65D41/34](#) [B65D55/08](#)
(IPC 1-7):**CPC:** [B65D41/3452](#) [B65D2101/0046](#) [B65D2101/0053](#)**European class:** [B65D41/34D1A](#) [L65D101/00A3D](#) [L65D101/00A3E](#)**US class:** [215/252](#)[Classification Explorer](#)**Cited documents:** US4572387 A, US4557393 A, US4548329 A, US4530436 A, US4527705 A, US4372456 A, US4305516 A, GB2102776 A1, GB1592689 A, GB1209395 A, EP0149496 A2, EP0096351 A1, EP0018928 A1,**Forward Citations:** US9187217, US8528757, US6224802, US6053344, US5957315, US5853095, US5779075, US5678714, US5609263, US5484071, US5248050, US5176270, US2009223963, GB2255553, EP2076448, EP0965533, EP0913334, EP0799772, EP0703155, EP0661215, EP0460557, EP0371920, DE19613364, AU648546,**Abstract:**

Source: US4744479A A tamper indicating closure for bottles has a cap with an internally threaded skirt and a cylindrical band which is adjacent the end face of the skirt and has a longer and a shorter arcuate section together forming a ring. The shorter section is attached to the skirt by two relatively strong bridges, and the longer section is attached to the skirt by a readily destructible web midway between its ends and by an elastic neck adjacent one of its ends. The other end of the longer section is attached to the adjacent end of the shorter section by a frangible membrane. When the closure is first applied to the externally threaded neck of a bottle, the two sections remain attached to the skirt and to each other and their internal cams merely ride over a frustoconical bead of the neck to thereupon engage a shoulder of the bead. When the closure is being detached from the neck of the bottle, the bridges entrain the shorter section but the web which connects the longer section to the skirt breaks followed by destruction of the membrane and by initially elastic and thereupon permanent deformation of the neck so that the orientation of the longer section changes drastically as a result of the retaining action of internal cams on the longer section in cooperation with the bead.

93) Family number: 23930345 (US2004129667A)

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Title: CLOSURE DEVICE FOR A CARBODY, PROVIDED WITH RETAINING AND CATCHING MEANS FOR A CAST OR MOULDED JOINT, AND METHOD FOR MAKING SAME**Priority:** FR20010004180 20010328 WO2001FR02911 20010919**Family:**

Publication number	Publication date	Application number	Application date
AT284819 E	20050115	AT20010972168T	20010919
AU2001291957 AA	20021015	AU20010291957	20010919
CA2442213 AA	20030925	CA20012442213	20010919
CA2442213 C	20080909	CA20012442213	20010919
DE60107878 D1	20050120	DE20016007878	20010919
DE60107878 T2	20051208	DE20016007878T	20010919
EP1373086 A1	20040102	EP20010972168	20010919
EP1373086 B1	20041215	EP20010972168	20010919
ES2234888 T3	20050701	ES20010972168T	20010919
FR2822810 A1	20021004	FR20010004180	20010328
FR2822810 B1	20030822	FR20010004180	20010328
PL363691 A1	20041129	PL20010363691	20010919
RU2003128029 A	20041027	RU20030128029	20010919
RU2263616 C2	20051110	RU20030128029	20010919
US2004129667 AA	20040708	US20030471252	20030910
WO02079046 A1	20021010	WO2001FR02911	20010919

Probable Assignee: BERICAP**Assignee(s):**(std): BERICAP ; BERICAP LONGVIC ; LAFIN BENOIT ; NUSBAUM PHILIPPE ; NUSBAUM PHILLIPPE ; RICAL SA ; RICAL**Inventor(s):**(std): LAFEN BENUA ; LAFIN BENO T ; LAFIN BENOIT ; NJUSBAUM FILIPP ; NUSBAUM PHILIPPE ; NUSBAUM PHILLIPPE**Agent(s):** BERESKIN AND PARR LLP SENCRL SRL**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW**International class**
(IPC 8-9): [B65D41/20](#) [B65D41/48](#) [B65D41/50](#) [B65D47/38](#) [B65D53/06](#) [B67D3/00](#) (Advanced/Invention);
[B65D41/02](#) [B65D41/32](#) [B65D47/00](#) [B65D53/00](#) [B67D3/00](#) (Core/Invention)**International class**
(IPC 1-7): [B65D101/00](#) [B65D39/00](#) [B65D41/32](#) [B65D41/48](#) [B65D47/38](#) [B65D51/20](#) [B67D3/0](#)
[B67D3/00](#)**CPC:** [B65D41/48](#) [B65D2101/0038](#) [B67D3/0032](#)**European class:** [B65D41/48](#) [B67D3/00H2](#) [L65D101/00A3C](#)**US class:** [215/250](#)[Classification Explorer](#)**Cited documents:** US687865 A, US6032812 A, US5937921 A, US5687865 A, US5667089 A, US5662231 A, US5392939 A, US5297688 A, US5289854 A, US4874023 A, US4793498 A, US4697716 A, US4585135 A, US4378893 A, US3001658 A, FR2769004 A1, EP0900745 A1, EP0155021 A1,**Forward Citations:** WO14113853, WO12130916, WO11018236, WO08022473, WO04071932, US9061801, US8418866, US8376164, US8177083, US8016143, US7581653, US7228980, US2012103927, US2010193464, US2007023383, US2004238476, KR101424194, FR3002520, FR2973353, FR2851988, EP1460030,

Abstract:

Source: US2004129667A The invention concerns a closure device for a carboy designed for a liquid dispenser of the water fountain type. The device comprises a cap (3) including a transverse wall (5) wherefrom projects an outer skirt (6). The transverse wall has, on its inner surface (29), an annular groove (30) coaxial with the cap, delimited by two ribs (31, 32) projecting from the transverse wall. The groove is designed to receive a cast or moulded joint (34), and to prevent the displacement thereof parallel to the transverse wall. The groove can also include on its inner surface means for catching said joint.

94) Family number: 29049722 (US2003168456A)

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Title: CLOSURE DEVICE PARTICULARLY FOR BOTTLES AND/OR CONTAINERS**Priority:** IT2002TV00025 20020306**Family:**

Publication number	Publication date	Application number	Application date
EP1342671 A2	20030910	EP20030004355	20030228
EP1342671 A3	20031001	EP20030004355	20030228
ITTV20020025 A1	20030908	IT2002TV00025	20020306
US2003168456 AA	20030911	US20030376248	20030303

Probable Assignee: TOMASELLA ALESSANDRO**Assignee(s):**^(std): TOMASELLA ALESSANDRO**Inventor(s):**^(std): TOMASELLA ALESSANDRO**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**International class**
^(IPC 8-9): [B65D41/04](#) [B65D45/32](#) [B65D51/16](#) [B65D55/02](#) (Advanced/Invention);
[B65D41/04](#) [B65D45/00](#) [B65D51/16](#) [B65D55/02](#) (Core/Invention)**International class**
^(IPC 1-7): [B65D45/32](#) [B65D51/16](#) [B65D51/18](#) [B65D55/02](#)**CPC:** [B65D41/0421](#) [B65D45/322](#) [B65D51/1672](#) [B65D55/024](#) [B65D2251/07](#)**European class:** [B65D41/04B1A](#) [B65D45/32A](#) [B65D51/16E](#) [B65D55/02F](#) [L65D251/07](#)**US class:** [215/25](#) [215/250](#) [215/278](#) [220/257.1](#)[Classification Explorer](#)**Cited documents:** US6158604 A, US5960972 A, US5819969 A, US5615788 A, US5388731 A, US5314084 A, US5209362 A, US5085332 A, US4562931 A, US4279353 A, US4192428 A, US3905502 A, US3838785 A, US3630404 A, GB1386369 A, DE817255 A, DE3009568 A1,**Forward Citations:** WO15094292, WO13068454, WO13007826, WO13003966, WO09028946, WO08139196, US9790009, US9676525, US9669974, US9567143, US9434518, US8813988, US8308341, US7866497, US7222741, US7007523, US2015166229, US2015166224, US2008223810, US2008216910, US2005144992, NL2000838, JP6113074, JP2014500202, JP2010095259, EP2592015, CN104039658,**Abstract:**

Source: US2003168456A A closure device particularly usable for temporarily closing a container for liquids, comprising a first cap, which is provided with first elastically deformable elements for connection to the outer neck of the container; a second coaxial and external cap being slidingly and selectively associated with the first cap and comprising second elements for the temporary activation of the first elements and third elements suitable to remove the closure device from the neck of the container.

95) Family number: 4465707 (US4993573A)

© PatBase

Title:

Priority:

Family:

Probable Assignee:

Assignee(s):^(std):

Inventor(s):^(std):

International class
(IPC 8-9):

International class
(IPC 1-7):

CPC:

European class:

US class:

[Classification Explorer](#)

Cited documents:

Forward Citations:

Bottle closure

US19890393576 19890814

Publication number	Publication date	Application number	Application date
US4993573 A	19910219	US19890393576	19890814

KINETEK SYSTEMS INC

KINETEK SYSTEMS INC

FREIDEL IRIS ; LEYTES LEV

[B01L3/00 B01L3/08 B67D7/02 C12M1/24](#) (Advanced/Invention)

[B65D51/16](#)

[B01L3/08 B01L3/565 B67D7/0288 C12M23/08 C12M23/38 C12M29/00](#)

[B01L3/00B4 B01L3/08 B01L3/565 B67D7/02G C12M23/08 C12M23/38 C12M29/00](#)

[215/276 215/309 222/489 422/937](#)

US4700861 A, US3499568 A, US2191495 A, US1577539 A,

WO9304976, WO9304976, WO15084388, WO13037866, WO05105977, US9624015, US9388034, US9376305, US6568569, US5924585, US5848622, US5806573, US5660294, US5586673, US2014291276, US2014190570, US2008087626, US2007050712, US2006234370, US2006186128, FR2737232, EP3210670, EP1591517, EP0825148, EP0756037, EP0531928.

Abstract:

Source: US4993573A A bottle closure for sealingly closing a bottle while providing access to the interior of the bottle, the bottle being of the type having a neck with external threads thereon, and a mouth at the top of the neck. The bottle closure including a generally cylindric stopper having a radially outwardly projecting flange, a radially inwardly tapering lip projecting axially outwardly from one end of the stopper for insertion into the bottle through the mouth for sealing the bottle and at least one passageway extending through the stopper. The stopper has ears which are axially spaced from the flange. The flange and ears retain a cap on the stopper but allow the cap to rotate with respect to the stopper so that the cap may be tightened on and loosened from the threads of the bottle without unsealing the stopper from the bottle.

Title: STOPPERS**Priority:** GB19570013093 19570424 US19580729601 19580421

Family:	Publication number	Publication date	Application number	Application date
	GB886821 A	19620110	GB19570013093	19570424
	US3057502 A	19621009	US19580729601	19580421

Probable Assignee: PERMUTA CLOSURES LTD**Assignee(s):^(std):** PERMUTA CLOSURES LTD**Assignee(s):** PERMUTA CLOSURES LIMITED**Inventor(s):^(std):** GEORGE WOOD ARTHUR ; WOOD ARTHUR GEORGE

International class [B65D39/00](#) (Advanced/Invention);
^(IPC 8-9) [B65D39/00](#) (Core/Invention)

CPC: [B65D39/0023](#) [B65D2539/008](#)**European class:** [B65D39/00F3](#) [L65D339/10](#) [L65D539/00Y10](#)**US class:** [215/355](#)[Classification Explorer](#)**Cited documents:** US953124 A, US741169 A, US369784 A, US2873038 A, US2820564 A, US2758737 A, US1327519 A, FR1160272 A, FR1067061 A, BE531207 A,**Forward Citations:** USD561585, US7651421, US7510053, US6840394, US5845797, US5180643, US5064085, US4502604, US3810469, US3742661, US3251499, US3164279, US2014284301, US2007082767, US2006185658, US2006054401, US2004089628, TWI568645, FR2744100, AU637149,**Abstract:**

Source: GB886821A 886,821. Stoppers. PERMUTA CLOSURES. April 24, 1958 [April 24, 1957; May 22, 1957], Nos. 13093/57 and 16297/57. Class 125(3). A cylindrical stopper moulded of polythene polyvinyl chloride or nylon has the surfaces of annular ribs 3, 4 provided with a rough or matt finish, by sand-blasting the corresponding mould surfaces, to increase the coefficient of friction between the stopper and the bottle-neck.

Title: STOPPER DEVICE FOR A CONTAINER, A CONTAINER FITTED WITH SUCH A DEVICE, AND A METHOD OF FABRICATING SUCH A DEVICE

Priority: FR20060003510 20060420 WO2007FR00661 20070419

Family:	Publication number	Publication date	Application number	Application date
	AU2007242677 AA	20071101	AU20070242677	20070419
	CA2649461 AA	20081015	CA20072649461	20070419
	CN101426692 A	20090506	CN200780014124	20070419
	EP2007642 A1	20081231	EP20070731325	20070419
	FR2900129 A1	20071026	FR20060003510	20060420
	FR2900129 B1	20080613	FR20060003510	20060420
	JP2009534258 T2	20090924	JP20090505932T	20070419
	US2009184082 AA	20090723	US20070226405	20070419
	WO07122323 A1	20071101	WO2007FR00661	20070419

Probable Assignee: TETRA LAVAL HOLDINGS AND FINANCE SA

Assignee(s):^(std): ANTIER GREGORY ; JOENSSON TOMMY ; LUZZATO MICHEL ; TETRA LAVAL HOLDINGS AND FINANCE ; TETRA LAVAL HOLDINGS AND FINANCE S A

Assignee(s): TETRA LAVAL HOLDINGS AND FINANCE SA ; N A

Inventor(s):^(std): ANTIER GREGORY ; GREGORY ANTIER ; JONSSON TOMMY ; LUZZATO MICHEL ; MICHEL LUZZATO ; TOMMY JOENSSON ; JOENSSON TOMMY

Inventor(s): TOMMY JONSSON

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; ROBIC; MYON GERARD JEAN PIERRE ET AL; CABINET LAVOIX LYON; RALPH A DOWELL OF DOWELL AND DOWELL PC

Designated states: BE AE AG AL AM AT AU AZ BA BB BE BF BG BH 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 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 MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): [A61J1/00](#) [A61J1/14](#) [B29D22/00](#) [B29L31/56](#) [B65D41/04](#) [B65D41/08](#) [B65D41/34](#) [B65D51/14](#) [B65D51/22](#) [B65D53/04](#) [B65D55/02](#) [B65D55/06](#) (Advanced/Invention); [B29L31/56](#) (Advanced/Non-Invention); [A61J1/00](#) [A61J1/14](#) [B29D22/00](#) [B65D41/04](#) [B65D41/34](#) [B65D51/00](#) [B65D51/18](#) [B65D53/00](#) [B65D55/02](#) (Core/Invention)

CPC: [B65D41/045](#) [B65D51/228](#)

European class: [B65D41/04D2](#) [B65D51/22C](#)

US class: [215/216](#) [215/344](#) [215/350](#)

[Classification Explorer](#)

Cited documents: WO8900534 A1, US5984124 A, US5884788 A, US4351443 A, US2008083694 AA, FR2150226 A1, EP0146011 A2,

Forward Citations: WO11144569, WO11144569, US9676531, US8851310, US2012292321, JP2013526462, EP2902336, CN104724380, CN102905986,

Abstract:

Source: US2009184082A This stopper device (3) for a container (B) comprises a sealing disk (2) suitable for being sealed, adhesively bonded, or blocked against the end edge (12) of the neck (1) of the container (B), while projecting radially outwards from the neck. The device also comprises a stopper (4) suitable for being mounted on the neck (1) and provided with an internal portion in relief enabling a thrust force to be exerted on the sealing disk (2) urging the disk (2) away from the neck (1). The internal portion in relief is formed by a tongue (412) formed integrally with the stopper (4) and folded towards the end wall (413) of the stopper, in a configuration that is

generally frustoconical and that converges (α) towards said end wall (413).

98) Family number: 17848641 (US5642908A)

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Title: SLEEVE FOR THE FIXING OF A MANUAL PUMP GROUP TO A GLASS BOTTLE**Priority:** IT1994RM00672 19941017 IT1995RM00211U 19950926

Family:	Publication number	Publication date	Application number	Application date
	AT174537 E	19990115	AT19950830436T	19951016
	BRPI9503296 A	19970527	BR1995PI03296	19950713
	DE69506664 D1	19990128	DE19956006664	19951016
	DE69506664 T2	19990722	DE19956006664T	19951016
	EP0707895 A2	19960424	EP19950830436	19951016
	EP0707895 A3	19970129	EP19950830436	19951016
	EP0707895 B1	19981216	EP19950830436	19951016
	ES2128027 T3	19990501	ES19950830436T	19951016
	IT1274966 B	19970729	IT1994RM00672	19941017
	IT235700 Y1	20000712	IT1995RM00211U	19950926
	ITRM940672 A0	19941017	IT1994RM00672	19941017
	ITRM940672 A1	19960418	IT1994RM00672	19941017
	ITRM950211 U0	19950926	IT1995RM00211U	19950926
	ITRM950211 U1	19970326	IT1995RM00211U	19950926
	JP3641022 B2	20050420	JP19950189423	19950725
	JP8121325 A2	19960514	JP19950189423	19950725
	US5642908 A	19970701	US19950543920	19951017

Probable Assignee: SAR SPA**Assignee(s):^(std):** BAR S P A ; SAR SPA ; SAR S P A**Assignee(s):** S A R SPA ; SAALE SPA ; BAR SPA ; S A R S P A ; S A R S P A S GIOVANNI TEATINO CHIETI IT**Inventor(s):^(std):** FURANCHIESUKO MASUCHITEERI ; MASCITELLI FRANCESCO ; MASCITELLI FRANCISCO**Inventor(s):** FRANCISCO MASCITELLI ; MASCITELLI FRANCESCO I 65100 PESCARA IT**Agent(s):** KAWAGUCHI YOSHIO**Designated states:** AT BE CH DE DK ES FR GB IE IT LI LU NL SE

International class [B05B11/00 B65B39/00 F04B53/00 F04B9/14](#) (Advanced/Invention);
^{(IPC 8-9):} [B05B11/00 B65B39/00 F04B53/00 F04B9/00](#) (Core/Invention);
[A45D B05B](#) (Subclass/Invention)

International class [A45D B05B11/00 B05B11/00 B65B39/00 B65D83/00 B65D83/00 F04B53/00 F04B9/14](#)
^{(IPC 1-7):} [F16L55/00](#)

CPC: [Y10S285/921 B05B11/3049](#)**European class:** [B05B11/00P9B4B B05B11/00P9B6 B05B11/30H1F L05B11/30H1D2](#)**US class:** [222/321.7 222/321.9 285/148.19 285/331 285/921](#)[Classification Explorer](#)**Cited documents:** WO8802297 A1, US5363993 A, US5301852 A, US5299703 A, US5096094 A, US4984702 A, US4773553 A, US4454965 A, US3146920 A, EP0571280 A1, EP0567369 A1, DE8702986 U,**Forward Citations:** WO9952786, WO9951359, WO9920401, WO9902446, WO05030607, WO04020295, WO02081333, WO0123278, USRE42553, US8550311, US8261945, US8061567, US7757902, US7497357, US7255248, US7207452, US6935540, US6776311, US6672488, US6641001, US6575339, US6543648, US6463650, US6409049, US6364181, US6318595, US6273300, US6227392, US6206246, US6186359,

US6010039, US5950880, US5941428, US5826756, US5772080, US2010282782,
US2010243678, US2009212073, US2009026227, US2008053948, US2006081655,
US2005230428, US2004222242, US2004173639, FR2859983, FR2823187, FR2818249,
FR2799185, FR2777209, FR2776989, FR2769860, FR2760725, EP2514532,
EP1897623, EP1897623, EP1673292, EP1216934, EP1071617, EP1068024,
EP0986505, EP0986505, DE10130368,

Abstract:

Source: US5642908A The invention relates to a sleeve (1) for the fixing of a pump (2) to a bottle with a neck (3) enlarged at the mouthpiece (4). The upper part (1a) of the sleeve (1) has tubular elements: one external tubular element (10) for receiving a metallic covering (5) and an internal tubular element (11) for receiving and restraining the pump (2), and a base transversal element (12) resting on the mouthpiece (4). An annular gasket is interposed between the base transversal element (12) and mouthpiece (4). The lower tubular part (1b) of the sleeve is to be inserted onto the mouthpiece (4) and is held in place in an undercut (4a) by means of rounded projecting parts (16) shown internally by the part (1b). The lower tubular part (1b) is provided with a plurality of external facings (15). The part (1b) also has externally a plurality of step projections (20) between the facings (15).

0) GB346864A – IMPROVEMENTS IN BOTTLE CLOSURES

99) Family number: 18832954 (GB346864A)

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Title: Improvements in bottle closures

Priority: GB19300002447 19300123

Family:	Publication number	Publication date	Application number	Application date
	GB346864 A	19310423	GB19300002447	19300123

Probable Assignee: BECKER KARL

Assignee(s):^(std): BECKER KARL

Assignee(s): KARL BECKER

International class [B65D47/26](#) (Advanced/Invention);
(IPC 8-9): [B65D47/04](#) (Core/Invention)

International class [B65D47/28](#)
(IPC 1-7):

CPC: [B65D47/265](#)

European class: [B65D47/26D4](#)

[Classification Explorer](#)

Forward Citations: US2687236,

Abstract:

Source: GB346864A 2447. [Class 125 (iii).] Relates to sprinkling closures for bottles. According to the invention a cap 7 co-operates with a bottle neck having upstanding projections 1 and an interrupted horizontal channel 3 in which projections 8 slidably engage. A resilient packing disc 6 is interposed between the cap and the bottle and is prevented from rotating by the projection 1, Vertical channels 2 facilitate the engagement of the projections 8 in the channel 3. Projections 4, 5 limit the movement of the cap. The upper face of the projections 4 are oblique while the lower faces thereof are horizontal. An upwardly extending annular rim surrounds the opening in the bottle neck. In a modification the vertical channels 2 are separated from the channel 3 by a projection having oblique sides to facilitate disengagement of the cap from the bottle. The cap is rotated to make the sprinkling hole 9 register with the hole 10 in the disc or to close the hole as required.

100) Family number: 15406909 (EP1254848A2)

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Title: Container closures**Priority:** GB20010011136 20010505

Family:	Publication number	Publication date	Application number	Application date
	EP1254848 A2	20021106	EP20020253076	20020501
	EP1254848 A3	20040331	EP20020253076	20020501
	GB200111136 A0	20010627	GB20010011136	20010505

Probable Assignee: REXAM CONTAINERS LTD**Assignee(s):**^(std) COPE ALLMAN PLASTIC PACKAGING ; REXAM CONTAINERS LTD**Assignee(s):** COPE ALLMAN PLASTIC PACKAGING LIMITED ; COPE ALLMAN PLASTIC PACKAGING LTD ; REXAM CONTAINERS LIMITED**Inventor(s):**^(std) PETERS PHILIP ANTHONY ; BREACH JOHN ANTHONY**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR**International class**
^{(IPC 8-9):} [B65D41/58](#) (Advanced/Invention);
[B65D41/32](#) (Core/Invention)**International class**
^{(IPC 1-7):} [B65D41/30](#) [B65D51/18](#) [B65D51/24](#) [B65D51/30](#) [B65D55/02](#)**CPC:** [B65D41/58](#)**European class:** [B65D41/58](#)[Classification Explorer](#)**Cited documents:** WO9701486 A1, US5186775 A, US4421235 A, US3035730 A,**Forward Citations:** WO13159634, WO12120075, WO08065019, WO08065019, US9745114, US9278784, CN103429502, CN103429502,**Abstract:**

Source: EP1254848A2 This invention relates to container closures and to methods of sealing the container neck on filling of the containers. A closure assembly comprises a plug 4 adapted to be inserted into the neck 1 of a container to effect an aseptic seal with the container neck 1 and a cap 11 comprising a skirt 13 provided with formations 12 that are adapted to co-operate with complementary formations 2 provided on the container neck 1. The cap 11 and the neck formations 2 are so arranged that the cap 11 can be turned from a fully applied condition to a release position for removal of the cap 11 from the neck 1, the plug 4 being adapted to be inserted into the neck 1 to effect an aseptic seal of the neck 1 prior to application of the cap 11. On subsequent removal of the fully applied cap 11 from the neck 1, the plug 4 is withdrawn from the neck 1 by being held captive to the cap 11.

Title: ROLLER BOTTLE**Priority:** US20020412203P 20020920 US20030666157 20030919

Family:	Publication number	Publication date	Application number	Application date
	AT360057 E	20070515	AT20030021093T	20030918
	DE60313263 D1	20070531	DE20036013263	20030918
	DE60313263 T2	20071227	DE20036013263T	20030918
	EP1400584 A2	20040324	EP20030021093	20030918
	EP1400584 A3	20060315	EP20030021093	20030918
	EP1400584 B1	20070418	EP20030021093	20030918
	JP2004154130 A2	20040603	JP20030330630	20030922
	JP4469586 B2	20100526	JP20030330630	20030922
	US2004101955 AA	20040527	US20030666157	20030919

Probable Assignee: BECTON DICKINSON AND CO**Assignee(s):^(std):** BECTON DICKINSON CO**Assignee(s):** WHITLEY KENNETH W ; BECTON DICKINSON AND CO ; BECTON DICKINSON AND COMPANY**Inventor(s):^(std):** WHITLEY KENNETH W**Designated states:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR**International class**
(IPC 8-9): [B65D21/02](#) [C12M1/00](#) [C12M1/02](#) [C12M1/04](#) [C12M1/24](#) [C12M3/04](#) [C12N5/00](#) (Advanced/Invention)**International class**
(IPC 1-7): [B65D21/02](#) [C12M1/00](#) [C12M1/02](#) [C12M1/04](#) [C12M1/24](#) [C12M3/04](#) [C12N5/00](#)**CPC:** [B65D21/0231](#) [C12M23/08](#) [C12M23/24](#) [C12M23/44](#) [C12M27/12](#) [C12M27/20](#)**European class:** [B65D21/02E12B](#) [C12M23/08](#) [C12M23/24](#) [C12M23/44](#) [C12M27/12](#) [C12M27/20](#)**US class:** [435/304.1](#) [435/304.100P](#)[Classification Explorer](#)**Cited documents:** US6720178 BA, US6585123 BA, US5908127 A, US5695987 A, US4810652 A, US4416373 A, US3630849 A, US3595425 A, US2641374 A, JP2002114225, EP0614967 A2,**Forward Citations:** WO11041471, WO08104587, WO08104587, WO08104586, WO08104586, US9523110, US9428287, US8163537, US7022518, US2010190197, US2006177931, JP6097267, JP2015109836, CN102575214,**Abstract:**

Source: US2004101955A A container for cell growth culturing is provided that includes at its bottom end a neck-receiving recess having a planar wall with projecting ribs extending therefrom to space the planar wall from the neck of an adjacently stacked similar container. The ribs of the inventive container allow gas exchange with the inside of an adjacently-stacked similar container provided with a gas-permeable membrane.

102) Family number: 30394199 (US2004191895A)

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Title: ROLLER BOTTLE
Priority: EP20030021296 20030919 US20020412205P 20020920 US20030666357 20030919
Family:

Publication number	Publication date	Application number	Application date
DE60338332 D1	20111103	DE20036038332	20030919
EP1400585 A1	20040324	EP20030021296	20030919
EP1400585 B1	20110914	EP20030021296	20030919
ES2373437 T3	20120203	ES20030021296T	20030919
JP2004267198 A2	20040930	JP20030330628	20030922
JP4469585 B2	20100526	JP20030330628	20030922
US2004191895 AA	20040930	US20030666357	20030919
US7449331 BB	20081111	US20030666357	20030919

Probable Assignee: BECTON DICKINSON AND CO
Assignee(s):^(std): BECTON DICKINSON CO ; WHITLEY KENNETH W
Assignee(s): BECTON DICKINSON AND CO ; BECTON DICKINSON AND CO FRANKLIN LAKES ; BECTON DICKINSON AND COMPANY
Inventor(s):^(std): WHITLEY KENNETH W
Agent(s): VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELTEN U RECHTSANWAELTEN MBB; VON KREISLER SELTING WERNER
Designated states: CH DE ES FR GB IT LI
International class
 (IPC 8-9): [B65D6/00](#) [B65D90/02](#) [C12M1/00](#) [C12M1/02](#) [C12M1/04](#) [C12M1/14](#) [C12M1/24](#) [C12M3/00](#)
[C12M3/04](#) (Advanced/Invention);
[C12N5/00](#) (Advanced/Non-invention)
International class
 (IPC 1-7): [C12M1/00](#) [C12M1/24](#) [C12M3/04](#)
CPC: [C12M23/02](#) [C12M25/00](#) [C12M27/12](#) [C12M23/08](#) [C12M27/20](#)
European class: [C12M23/08](#) [C12M27/12](#) [C12M27/20](#)
US class: [215/382](#) [220/648](#) [220/654](#) [220/669](#) [220/672](#) [220/673](#) [220/675](#) [435/298.1](#) [435/298.2](#)
[435/299.1](#) [435/299.2](#) [435/299.200P](#) [435/304.1](#) [435/304.100S](#) [435/307.1](#)

[Classification Explorer](#)

Cited documents: USD318800 S1, USD15593 S1, USD144500 S1, USD101984 S1, US6245557 BA, US5866419 A, US5407809 A, US5373961 A, US5300438 A, US5272084 A, US5256570 A, US5151366 A, US5084393 A, US5010013 A, US4962033 A, US4912048 A, US4824787 A, US4763804 A, US4749092 A, US4717668 A, US3853712 A, US3701717 A, US15593 A, FR1191951 A, EP0614967 A2, EP0300666 A1,
Forward Citations: US9327462, US9187211, US8945917, US7022518, US2012295293, US2012181292, US2011287529, US2009301991, US2009298383, US2009158511, US2006177931,

Abstract:

Source: US2004191895A The invention provides a roller bottle for cell growth culturing including a plurality of axial pleats therearound for increasing cell growth surface area and further including circumferential ribs integrally formed therewith for reinforcing the pleated wall structure. These circumferential ribs prevent the bottle walls from bowing outward when the inside of the bottle becomes pressurized during cell growth culturing.

103) Family number: 22963852 (US3286866A)

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Title: PLASTIC CAP**Priority:** US19650448495 19650415

Family:	Publication number	Publication date	Application number	Application date
	GB1121448 A	19680724	GB19660016144	19660413
	US3286866 A	19661122	US19650448495	19650415

Probable Assignee: MACK WAYNE PLASTICS CO**Assignee(s):^(std):** MACK WAYNE PLASTICS CO**Assignee(s):** MACK WAYNE PLASTICS COMPANY**Inventor(s):^(std):** MCINTOSH JAMES A

International class
 (IPC 8-9): [B65D41/04](#) (Advanced/Invention);
[B65D41/04](#) (Core/Invention)

International class
 (IPC 1-7): [B65D41/04](#)

CPC: [Y10S215/01 B65D41/0428](#)**European class:** [B65D41/04B2](#)**US class:** [215/329 215/344 215/DIG.1](#)[Classification Explorer](#)**Cited documents:** US3203571 A, US3055526 A, US3053406 A, FR1213812 A,

Forward Citations: WO8810217, WO09014768, US8235221, US8231012, US8158009, US8157104, US7850029, US7802690, US7431877, US7055708, US6991123, US6805252, US6527132, US6325228, US6237791, US6126886, US6082569, US6062408, US5891380, US5836464, US5638972, US5423444, US5101993, US5100009, US4925617, US4886947, US4872304, US4856667, US4823967, US4811857, US4398645, US4069937, US3814274, US3393818, US2010072163, US2009026154, US2009026153, US2009026126, US2009020493, US2008290040, US2007272649, US2007090080, US2005184433, JP53108556, GB2210864, GB2210864, DE2756372,

Abstract:

Source: GB1121448A 1,121,448. Stoppers. MACK WAYNE PLASTICS CO. 13 April, 1966 [15 April, 1965], No. 16144/66. Heading B8T. An internally screw-threaded stopper 10 has an outer ring-shaped resilient bead 24 and an inner concentric ring-shaped divergent sleeve 26 on its lower surface 21, so proportioned that as the stopper is screwed home on a bottle and c. neck 12, the bead and sleeve are squeezed together against the top surface 18 of the neck to provide a seal. As shown, the stopper 10 is moulded integrally from a plastics material, but alternatively its top 20 and skirt 22 may be of metal. Reference has been directed by the Comptroller to Specification 788,148.

Title: BOTTLE CLOSURE AND POURER**Priority:** US19590799966 19590317

Family:	Publication number	Publication date	Application number	Application date
	<u>US3085721 A</u>	19630416	US19590799966	19590317

Probable Assignee: SCHENLEY IND INC**Assignee(s):^(std):** SCHENLEY IND INC**Assignee(s):** SCHENLEY INDUSTRIES INC**Inventor(s):^(std):** DANIEL GOLDSTEIN**Inventor(s):** GOLDSTEIN DANIEL

International class B65D47/06 (Advanced/Invention);
 (IPC 8-9): B65D47/06 (Core/Invention)

International class B65D47/26
 (IPC 1-7):

CPC: B65D47/061**European class:** B65D47/06A**US class:** 215/309 215/311 222/484 222/492 222/537[Classification Explorer](#)**Cited documents:** US2790582 A, US2574990 A, US1468534 A, IT331534 A, GB790094 A,**Forward Citations:** US4711378, US3815787, US3430824, US3262613,**Abstract:**

Source: US3085721A (Claim 1) 1. A combination bottle closure and pourer comprising a tubular element having one end adapted for connection to the neck of the bottle in communication therethrough with the interior of the bottle, and an insert mounted in said tubular element for limited free sliding movement longitudinally of said tubular element between a retracted position and an extended position, said insert being formed with a liquid-outlet passageway opening through the inner end of said insert and extending therefrom toward and terminating short of the outer end of said insert, said liquid-outlet passageway opening laterally from said insert in a region thereof extending beyond and retracting into said tubular element upon sliding movement of said insert, said liquid-outlet passageway being of a cross section substantially less than that of said insert to present an effective pressure area of said insert to the liquid contents for extending movement of the insert by the liquid upon inversion of the bottle, whereby said liquid-outlet passageway is communicable at its inner end with the interior of the bottle and at its outer end with the exterior of the bottle when said insert is extended, said liquid-outlet passageway being closed when said insert is retracted, said insert being formed with a cavity opening through and extending from the inner end of said insert toward and terminating at a closed end short of the outer end of said insert, whereby said cavity will receive liquid upon inversion of said tubular element during pouring and retain the liquid by vacuum sufficiently to aid in retracting said insert upon erection of said tubular element at the cessation of pouring.

105) Family number: 30394003 (US2004099629A)

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Title: ROLLER BOTTLE**Priority:** US20020412356P 20020920 US20030667007 20030919

Family:	Publication number	Publication date	Application number	Application date
	AT448877 E	20091215	AT20030021217T	20030918
	DE60330100 D1	20091231	DE20036030100	20030918
	EP1400283 A2	20040324	EP20030021217	20030918
	EP1400283 A3	20050706	EP20030021217	20030918
	EP1400283 B1	20091118	EP20030021217	20030918
	JP2004269046 A2	20040930	JP20030330629	20030922
	JP4422996 B2	20100303	JP20030330629	20030922
	US2004099629 AA	20040527	US20030667007	20030919
	US7163115 BB	20070116	US20030667007	20030919

Probable Assignee: BECTON DICKINSON AND CO**Assignee(s):^(std):** BECTON DICKINSON AND CO ; BECTON DICKINSON CO**Assignee(s):** WHITLEY KENNETH W ; BECTON DICKINSON AND COMPANY**Inventor(s):^(std):** WITHLEY KENNETH W ; WHITLEY KENNETH W**Agent(s):** WEBER THOMAS**Designated states:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR**International class**
(IPC 8-9): [B01L3/14](#) [B65D41/04](#) [B65D45/00](#) [B65D53/04](#) [C12M1/00](#) [C12M1/10](#) [C12M3/04](#) (Advanced/Invention)**International class**
(IPC 1-7): [B01L3/14](#) [B65D41/04](#) [B65D41/28](#) [B65D53/04](#) [C12M1/00](#) [C12M1/10](#) [C12M3/04](#)**CPC:** [B01L3/50825](#) [B01L2200/087](#) [B01L2300/041](#) [B01L2300/042](#) [B01L2300/046](#) [C12M23/38](#)**European class:** [B01L3/14C](#) [B01L3/50825](#) [C12M23/38](#) [L01L200/08C](#) [L01L300/04A](#) [L01L300/04A2](#) [L01L300/04B](#)**US class:** [215/276](#) [215/32](#) [215/320](#) [215/320S](#) [215/350](#) [215/354](#) [215/354S](#)[Classification Explorer](#)**Cited documents:** WO9101238 A1, WO8101238 A1, WO02072265 A1, US6502710 BA, US5984124 A, US5766936 A, US5695987 A, US5622865 A, US5595907 A, US5586673 A, US5578491 A, US5421469 A, US5391496 A, US5358872 A, US5092477 A, US4880127 A, US4747500 A, US4462502 A, US4423821 A, US4128184 A, US3924772 A, US3709395 A, US3499568 A, US2004108294 AA, US2003127421 AA, US1985703 A, EP1066881 A2, EP0614967 A2,**Forward Citations:** WO14063948, WO14022229, US9597882, US9381524, US9278784, US9075039, US8985359, US8342344, US8251972, US7874441, US7726498, US2011259886, US2010065526, US2008210657, US2007029353, US2006175280, KR200470347, JP2009519723, JP2006076575, EP2879795, EP2242702, CN105667977, CN104736248,**Abstract:**

Source: US2004099629A A two-piece cap assembly for closing an opening in a neck portion of the container is provided that includes a cap body having a top wall and a depending annular skirt for screw attachment to the neck portion of the container. A plug seal is attachable to the underside of the top wall of the cap body. The plug seal and the cap body are relatively rotatably coupled for independent rotation of the cap body with respect to the plug seal upon attachment and detachment of the cap to the neck portion of the container.

106) Family number: 30277057 (WO04020301A1)

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Title: SAFETY SEAL FOR CAP**Priority:** ES20020001991 20020829 ES20030000050 20030110 WO2003ES00437 20030826**Family:**

Publication number	Publication date	Application number	Application date
AT356041 E	20070315	AT20030790967T	20030826
AU2003262577 AA	20040319	AU20030262577	20030826
AU2003262577 BB	20080508	AU20030262577	20030826
BRPI0313984 A	20050719	BR2003PI13984	20030826
BRPI0313984 B1	20120904	BR2003PI13984	20030826
CN100457565 C	20090204	CN20038020655	20030826
CN1678503 A	20051005	CN20038020655	20030826
CO5720988 A2	20070131	CO20050025465	20050318
DE60312356 D1	20070419	DE20036012356	20030826
EA006089 B1	20050825	EA20030001238	20031211
EA200301238 A1	20040826	EA20030001238	20031211
EP1550616 A1	20050706	EP20030790967	20030826
EP1550616 B1	20070307	EP20030790967	20030826
ES2220191 AA	20041201	ES20020001991	20020829
ES2220191 BB	20050416	ES20020001991	20020829
ES2235588 AA	20050701	ES20030000050	20030110
ES2235588 BB	20051216	ES20030000050	20030110
ES2283859 T3	20071101	ES20030790967T	20030826
IN00501KN2005 A	20060421	IN2005KN00501	20050324
IN212600 B	20071207	IN2005KN00501	20050324
MXPA05002171 A1	20050826	MX2005PA02171	20030826
WO04020301 A1	20040311	WO2003ES00437	20030826
WO04020301 C1	20040513	WO2003ES00437	20030826

Probable Assignee: CIA DE TAPONES IRRELLENABLES S**Assignee(s):**^(std) CIA DE TAPONES IRRELLENABLES S ; CIA DE TAPONES IRRELLENABLES S A**Assignee(s):** CIA DE TAPONES IRRELLENABLES SA ; CIA DE TOPONES IRRELLENABLES S A**Inventor(s):**^(std) DAVID TORRENT GARCIA ; DAVID TORRENT ORTEGA ; GARCIA DAVID TORRENT ; GARCIA JOSE TORRENT ; JOSE TORRENT GARCIA ; ORTEGA DAVID TORRENT ; TORRENT GARCIA DAVID ; TORRENT GARCIA JOSE ; TORRENT ORTEGA DAVID**Agent(s):** SPRUSON AND FERGUSON**Designated states:** AT AU BE BG BR CH CN CO CU CY CZ DE DK EE ES FI FR GB GR HU IE IN IT LI LU MC MX NI NL PH PT RO SE SI SK TR**International class**
^{(IPC 8-9):} [B65D41/32](#) [B65D41/48](#) [B65D41/62](#) [B65D47/08](#) (Advanced/Invention);
[B65D41/00](#) [B65D41/32](#) (Core/Invention)**International class**
^{(IPC 1-7):} [B65D41/32](#) [B65D47/08](#)**CPC:** [B65D41/48](#) [B65D41/62](#) [B65D41/32](#)**European class:** [B65D41/32](#) [B65D41/48](#) [B65D41/62](#)[Classification Explorer](#)**Cited documents:** WO9912815 A1, US4561553 A, US3415404 A, US3072277 A, FR1384284 A, EP0502379 A2, EP0378902 A1, CH683335,

Forward Citations: WO05092731, ES2333569, ES2239913,

Abstract:

The invention relates to a safety seal for a cap, of the type intended for closures for bottles. The construction of the inventive seal is characterised in that it comprises breaking points along the edge as well as other breaking points which are used to separate the disk from the flap of the seal, such that a lower ring may or may not be left on the neck of the bottle. The invention is further characterised in that the fixing means thereof comprises projecting tabs that are equidistantly distributed along the length of the inner surface of the lower cylindrical body of the seal. Moreover, the design of said fixing means ensures that the seal can be easily introduced and firmly fixed.

Title: Bottle stopper**Priority:** CA19820414829 19821104 FR19810021099 19811110

Family:	Publication number	Publication date	Application number	Application date
	CA1190897 A1	19850723	CA19820414829	19821104
	EP0079275 A1	19830518	EP19820402005	19821029
	ES275632 U	19840801	ES19820275632U	19821110
	ES275632 Y	19850301	ES19820275632U	19821110
	FR2516055 A1	19830513	FR19810021099	19811110
	FR2516055 B1	19850419	FR19810021099	19811110
	JP58134869 A2	19830811	JP19820198815	19821110
	US4512487 A	19850423	US19840641434	19840816

Probable Assignee: J AUGROS AND CIE CRC PONTOISE B**Assignee(s):^(std):** AARU E TEKUNIKU NUUBERU ; ARTS AND TECH NOUV ; ARTS ET TECHNIQUES NOUVELLES ; ARTS TECH NOUVELLES ; ARTS TECHNIQUES NOUVELLES ; ARTS ET TECHNIQUES NOW**Assignee(s):** J AUGROS AND CIE ; AUGROS JACQUES ; ARTS ET TECHNIQUES NOUVELLES SOCIETE A RESPONSABIL ; J AUGROS AND CIE CRC PONTOISE B ; FINANCIERE DE PACKAGING ET DE DEVELOPMENT IND**Inventor(s):^(std):** AUGROS JACQUES ; AUGROS JACQUES JULIEN ; JIYATSUKU OOGURO**Inventor(s):** JACQUES JULIEN AUGROS**Agent(s):** SIM AND MCBURNEY**Designated states:** AT BE CH DE FR GB IT LI LU NL SE**International class**
(IPC 8-9): [B65D39/04](#) [B65D47/06](#) [B65D51/18](#) (Advanced/Invention);
[B65D47/06](#) [B65D51/18](#) (Core/Invention)**International class**
(IPC 1-7): [B65D39/04](#) [B65D41/10](#) [B65D41/18](#) [B65D41/28](#) [B65D47/06](#) [B65D51/18](#)**CPC:** [B65D47/06](#)**European class:** [B65D47/06](#)**US class:** [215/274](#)[Classification Explorer](#)**Cited documents:** US3397803 A, US2601040 A, IT552309 A, FR2309425 A1, FR2259761 A1, FR1475336 A, FR1427723 A, CH354683 A, BE661591 A,**Forward Citations:** US7125187, US7125187, US5813554, US2003141273, EP0905033,**Abstract:**

Source: US4512487A The stopper device according to the invention for bottles with a neck, comprises a neck adapter, and a stopper designed to be inserted in the stopping sleeve of the neck adapter. According to the invention, the neck adapter is made up of two separate parts, namely a sleeve-holding plate constituted by the stopping sleeve encircled at its upper part by an external peripheral flange designed to rest in tight manner on the upper rim of the bottle neck, and a cap formed by the external skirt provided for fastening the adapter to the bottle neck, and comprising an inner peripheral rim, which covers up at least part of the external flange of the sleeve-holding plate.

108) Family number: 32791850 (US2009008396A)

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Title: CONTAINMENT OF PRODUCE**Priority:** WO2005ZA00089 20050623 WO2005ZA00089 20050623 ZA20040007890 20040930
ZA20050000505 20050119 ZA20070002621 20070330**Family:**

Publication number	Publication date	Application number	Application date
AU2005290344 AA	20060406	AU20050290344	20050623
CA2582942 AA	20060406	CA20052582942	20050623
CN101076485 A	20071121	CN200580038032	20050623
EP1807319 A1	20070718	EP20050762223	20050623
HK1108148 A3	20080502	HK20080102107	20080226
IN02479DN2007 A	20070803	IN2007DN02479	20070402
US2009008396 AA	20090108	US20050576404	20050623
WO06037135 A1	20060406	WO2005ZA00089	20050623
ZA200702621 A	20091230	ZA20070002621	20070330

Probable Assignee: HOPKINS R**Assignee(s):^(std):** HOPKINS R ; HOPKINS RICHARD**Assignee(s):** R HOPKINS**Inventor(s):^(std):** HOPKINS R ; HOPKINS RICHARD**Inventor(s):** R HOPKINS**Agent(s):** COLLISON AND CO; FAIER AND FAIER PC**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 KP KR KZ LC LI LK LR LS LT LU LV 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**International class**
(IPC 8-9): [B65D81/22](#) (Advanced/Invention);
[B65D81/18](#) (Core/Invention);
[B65D](#) (Subclass/Invention)**International class**
(IPC 1-7): [B65D81/22](#)**CPC:** [B65D51/26](#) [B65D81/22](#)**European class:** [B65D51/26](#) [B65D81/22](#)**US class:** [220/578](#)[Classification Explorer](#)**Cited documents:** US7011222 BB, US4938375 A, US3735887 A, US3599821 A, US3075667 A, US3037653 A, US3033409 A, US1342321 A, FR2217226 A1, DE315478 A, DE2306365 A1,**Forward Citations:** WO08087290, US8783485, US8360257, US2011185922, RU2617274,**Abstract:**

Source: US2009008396A A partition, which has a perforate body part (1) and radially extending ligulate projections (5,6) around the body, with preferably a peripheral ring (27) joining the distal ends of the ligulate projections. The partition may be flat or cup shaped and is used in the field of containment of produce, in particular where produce is contained in a closed container immersed in a liquid. A primary example of an application of the invention is in containment of natural produce such as fruit and vegetables.

109) Family number: 55896287 (US2015336320A)

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Title: METHOD OF MAKING A BOTTLE MADE OF FDCA AND DIOL MONOMERS AND APPARATUS FOR IMPLEMENTING SUCH METHOD**Priority:** EP20120756435 20120831 WO2012EP67000 20120831

Family:	Publication number	Publication date	Application number	Application date
	AR092283 AA	20150408	AR2013P103074	20130829
	CN104718235 A	20150617	CN201280076335	20120831
	CN104718235 B	20160817	CN201280076335	20120831
	EP2890727 A1	20150708	EP20120756435	20120831
	EP2890727 B1	20170322	EP20120756435	20120831
	ES2628619 T3	20170803	ES20120756435T	20120831
	PL2890727 T3	20170929	PL20120756435T	20120831
	TR201708928 T4	20170721	TR20170008928T	20120831
	US2015336320 AA	20151126	US20120424940	20120831
	WO14032731 A1	20140306	WO2012EP67000	20120831

Probable Assignee: EVIAN SAEME SA**Assignee(s):^(std):** ANONYME DES EAUX MINERALES D EVIAN ET EN ABREGE S A E M E SOC ; ANONYME DES EAUX MINERALES DEVIAN SOC ; REUTENAUER PHILIPPE ; POULAT FRANCOISE ; EAUX MINERALES D EVIAN SAEME DES SA ; EVIAN SAEME SA ; EAUX MINERALES D EVIAN ET EN ABREGE S A E M E DES SA**Assignee(s):** DES EAUX MINERALES D EVIAN SAEME SA ; ANONYME DES EAUX MINERALES D EVIAN ET EN ABREGE SAEME SOC**Inventor(s):^(std):** POULAT FRANCOISE ; REUTENAUER PHILIPPE ; PHILIPPE REUTENAUER ; FRANOISE POULAT**Inventor(s):** FRANCOISE POULAT**Agent(s):** CABINET PLASSERAUD; VEIGA MIKEL; UGUR GUERSAD YALCINER**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 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**International class** [B29C49/00](#) [B29C49/48](#) [B65B3/02](#) [B65D1/02](#) [B65D23/10](#) [C08G63/18](#) (Advanced/Invention)
(IPC 8-9):**CPC:** [B65D1/0223](#) [B65D2501/0036](#) [B29C49/4823](#) [B65B3/022](#) [B29K2105/258](#) [B29C49/0005](#) [B29C2049/4841](#) [B29K2067/04](#) [B29L2031/7158](#) [B65D1/0207](#)**US class:** [264/535](#) [425/526](#) [53/453](#) [53/561](#)[Classification Explorer](#)**Cited documents:** WO11043660 A2, WO10077133 A1, US2010174044 AA, US2007257003 AA, KR20000040988, JP2008291244, CN1894084 A, CN101945919 A, CN101522385 A, CN101203428 A, CN101115606 A,**Forward Citations:** WO16200653, WO16135668, WO16124403, WO15189481, US2016009015, CH710701,**Abstract:**

Source: US2015336320A A method of making a bottle (1) made of at least one thermoplastic polymer of at least one FuranDiCarboxylic Acid (FDCA) monomer and at least one diol monomer, comprising the steps of: providing a preform, placing the preform in a mold, blowing the preform to form the bottle (1) comprising an envelop (2) defining a housing, wherein, at the step of blowing the preform, the mold is heated at a temperature greater than or equal to 50 degrees centigrade, preferably comprised between 50 degrees centigrade and 100 degrees centigrade, more preferably between 65 degrees centigrade and 85 degrees centigrade

110) Family number: 20339713 (GB809990A)

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Title: Improvements in or relating to bottle closures and device for the manufacture of the bottle**Priority:** 19560914

Family:	Publication number	Publication date	Application number	Application date
	<u>GB809990 A</u>	19590304	GB19570012640	19570418

Probable Assignee: JOHANN KELLERER**Assignee(s):**^(std) ALBIN MAYR ; JOHANN KELLERER

International class B65D39/00 B65D39/12 B65D47/18 B65D47/28 ^(Advanced/Invention) ;
^(IPC 8-9) B65D39/00 B65D47/04 B65D47/06 ^(Core/Invention)

International class B29C5/00 B65D1/00
^(IPC 1-7)

CPC: B65D39/00 B65D39/0011 B65D39/0023 B65D39/12 B65D47/18 B65D47/283**European class:** B65D39/00 B65D39/00F1 B65D39/00F3 B65D39/12 B65D47/18 B65D47/28B[Classification Explorer](#)**Forward Citations:** US4601466, US3834698, JP2015113159, FR2632930, EP0362986,**Abstract:**

Source: GB809990A 809,990. Injection moulding bottles. MAYR, A., and KELLERER, J. April 18, 1957 [Sept. 14, 1956], No. 12640/57. Class 87(2). [Also in Group XVII] A bottle 1 having in its neck an annular edge 4 directed downwardly to cooperate with a stopper (see Group XVII) is injection-moulded in polystyrol by introducing the liquid polystyrol through a nozzle.17 into a chamber 22 having a core 20 and jacket 19 and discharge ring 21, the bottle bottom being adhesively fixed later.

0) GB1260128A – CONTAINERS AND CLOSURES

111) Family number: 735392 (GB1260128A)

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Title: CONTAINERS AND CLOSURES

Priority: GB19680059816 19681216

Family:	Publication number	Publication date	Application number	Application date
	GB1260128 A	19720112	GB19680059816	19681216

Probable Assignee: UNITED GLASS LTD

Assignee(s):^(std): UNITED GLASS LTD

Assignee(s): UNITED GLASS LIMITED

Inventor(s):^(std): FACER RONALD WILLIAM ; MILLS FREDERIC GEORGE WALTER

Inventor(s): RONALD WILLIAM FACER ; FREDERIC GEORGE WALTER MILLS

International class [B65D41/17](#) (Advanced/Invention);
(IPC 8-9): [B65D41/02](#) (Core/Invention)

International class [B65D35/44](#) [B65D41/04](#) [B65D41/18](#)
(IPC 1-7):

CPC: [B65D41/17](#)

European class: [B65D41/17](#)

[Classification Explorer](#)

Forward Citations: WO9525678, WO9321079, WO9012521, WO16084743, US6394295, US5715960, US4638918, GB2414230, FR2760724, FR2646066, EP0864506, DE20308126, AU670785,

Abstract:

Source: GB1260128A 1,260,128. Stoppers. UNITED GLASS Ltd. 16 Dec., 1969 [16 Dec., 1968], No. 59816/68. Heading B8T. A closure cap 10 snap fits on to a bottle having an upstanding neck portion 2. The cap is provided with a cam surface 15, and the bottle with a cam surface 4, the two cam surfaces matching each other and being of a generally sinusoidal shape. A bead 14 on the cap interacts with a bead 3 on the neck of the bottle to retain the cap on the bottle as a snap fit. To remove the cap from the bottle the cap is rotated so that the two cam surfaces interact with each other forcing the cap from the bottle when the part 15a of the cap cam surface lies against part 4a of the cam surface on the bottle.

112) Family number: 42961719 (WO09022892A1)

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Title: TAMPER-EVIDENT BOTTLE CAP

Priority: MX20100000995 20100126 US20070952408P 20070727 WO2008MX00099 20080725

Family:

Publication number	Publication date	Application number	Application date
MX20100000995 A1	20100301	MX20100000995	20100126
WO09022892 A1	20090219	WO2008MX00099	20080725
WO09022892 A4	20090430	WO2008MX00099	20080725

Probable Assignee: MEDELLIN ALARCON DIEGO

Assignee(s):^(std): MEDELLIN ALARCON DIEGO ; MEDELLIN GONZALO PRIDA ; PRIDA MEDELLIN GONZALO

Assignee(s): GONZALO PRIDA MEDELLIN

Inventor(s):^(std): PRIDA MEDELLIN GONZALO ; MEDELLIN GONZALO PRIDA ; MEDELLIN ALARCON DIEGO ; ALARCON DIEGO MEDELLIN

Inventor(s): GONZALO PRIDA MEDELLIN ; DIEGO MEDELLIN ALARCON

Agent(s): ESTEVA WURTS ANDRE

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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): [B65D47/10 B65D55/02](#) (Advanced/Invention);
[B65D47/06 B65D55/02](#) (Core/Invention)

CPC: [B65D47/106 B65D55/024 B65D55/026](#)

European class: [B65D47/10B B65D55/02F B65D55/02G](#)

[Classification Explorer](#)

Cited documents: US3850328 A, US3207375 A, GB191215453 A, FR1564034 A, DE202005004595 U1

Forward Citations: WO16193183, WO14064110, WO13050390, WO10125595, USD775950, US9573739, KR101528960, ITMI20111799, ITMI20111346, ITMI20090740, EP2722287, EA027546, CN103842264, CN103842264,

Abstract:

The invention relates to elements designed to indicate if a bottle has been tampered with, suitable for screw and non-screw bottles, as well as to the associated method. The aforementioned elements include: at least one adjustment element which connects the elements to the bottle by means of a flange; at least one flow-control component housed inside the adjustment element and fixed in relation thereto, said flow control including one part which can regulate the flow of liquid and at least one bridge which joins the flow-regulating part to the wall of the flow-control component; at least one security seal housed inside the flow-control component and joined thereto, said seal including at least one flange on the upper part thereof; and at least one push means which pushes the flange on the upper part of the seal when the bottle cap is rotated.

113) Family number: 20232798 (US5603422A)

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Title: PLASTIC SAFETY CLOSURE FOR BOTTLES SIMULATING THE APPEARANCE OF A TRADITIONAL CORK-TYPE WINE BOTTLE CLOSURE

Priority: CH19920000726 19920306 CH19920003238 19921019 CH19930000551 19930223
WO1993CH00051 19930301

Family:	Publication number	Publication date	Application number	Application date
	<u>AU199334906 A1</u>	19931005	AU19930034906	19930301
	<u>AU660216 B2</u>	19950615	AU19930034906	19930301
	<u>BE1007919 AD</u>	19951121	BE19930000193	19930302
	<u>CH680781 A</u>	19921113	CH19920000726	19920306
	<u>CH686361 A</u>	19960315	CH19920003238	19921019
	<u>CH688586 A</u>	19971128	CH19930000551	19930223
	<u>DE4390847 T</u>	19940217	DE19934390847T	19930301
	<u>DE4390847 T1</u>	19940217	DE19934390847T	19930301
	<u>DE9390048 U1</u>	19931216	DE19930090048U	19930301
	<u>ES2085232 AB</u>	19960516	ES19930050026	19930301
	<u>ES2085232 AC</u>	19980316	ES19930050026	19930301
	<u>ES2085232 BA</u>	19981101	ES19930050026	19930301
	<u>FR2688195 A1</u>	19930910	FR19930002737	19930304
	<u>FR2688195 B1</u>	19951006	FR19930002737	19930304
	<u>GR1001855 B</u>	19950404	GR19930100075	19930302
	<u>GR930100075 A</u>	19931130	GR19930100075	19930302
	<u>IT1271976 B</u>	19970610	IT1993MI00425	19930305
	<u>ITMI930425 A0</u>	19930305	IT1993MI00425	19930305
	<u>ITMI930425 A1</u>	19930907	IT1993MI00425	19930305
	<u>US5603422 A</u>	19970218	US19940140133	19940420
	<u>WO9317926 A1</u>	19930916	WO1993CH00051	19930301
	<u>ZA9308845 A</u>	19940802	ZA19930008845	19931126

Probable Assignee: HERRMANN ERNST**Assignee(s):^(std):** ERNST HERRMANN ; HERRMANN ERNST**Assignee(s):** HERRMANN ERNST WALZENHAUSEN CH**Inventor(s):^(std):** HERRMANN ERNST ; ERNST HERRMANN**Inventor(s):** HERRMANN ERNST WALZENHAUSEN CH**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD**Designated states:** AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LK LU MC MG ML MN MR MW NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US

International class
(IPC 8-9): B65D41/34 (Advanced/Invention);
B65D41/34 (Core/Invention);
B25D (Subclass/Invention)

International class
(IPC 1-7): B25D B65D B65D39/00 B65D41/34 B65D41/38 B65D55/08

CPC: B65D41/3 Y10S206/807 B65D41/3485 B65D41/3447 B65D41/3452 B65D2101/0038 B65D2101/0053

European class: B65D41/34D1 B65D41/34D1A B65D41/34F2 L65D101/00A3C L65D101/00A3E**US class:** 206/807 215/250 215/252 215/253 215/254 215/256 220/281

Cited documents: WO9213773 A1, US5190178 A, US5096084 A, US5031787 A, US4778698 A, US4666052 A, US4648519 A, US4596338 A, US4573582 A, US4553682 A, US4483450 A, US4474302 A, US4279350 A, US3924771 A, US3746201 A, US3684118 A, US3348718 A, US3335889 A, US3032226 A, US2130609 A, NL6409078 A, IT628172 A, GB2039817 A1, GB1140840 A, FR713325 A, FR1462219 A, ES1017549 UA, EP0395212 A1, DE619169 A, DE2454273 A1, DE1482594 A1, BE742359 A, BE556849 A, AU920466 A1, AU8190775 A1, AU5989686 A1, AU577475 B2, AU562022 B2, AU4013558 A1, AU2813467 A1, AU246342 B2, AU2210483 A1, AU1546676 A1, AU1546676,

Forward Citations: WO0007897, WO0007897, USD630093, USD606400, US9555933, US9321561, US9242768, US9102448, US8851315, US8573424, US8522991, US8490804, US8453856, US8413830, US8356722, US8251242, US8083089, US8028851, US7861881, US7830263, US7281636, US7156248, US7121419, US6938787, US6394294, US6068151, US5860545, US5842592, US2015001173, US2011210122, US2011024383, US2011017736, US2010320168, US2010264145, US2010252524, US2010170898, US2010108680, US2010065567, US2010012615, US2009277861, US2009206082, US2009173007, US2008237236, US2008105644, US2007272647, US2007090110, US2007012710, US2006266751, US2006124646, US2005258128, US2005230342, US2005167390, US2004173563, US2003183597, CN104136336,

Abstract:

Source: US5603422A PCT No. PCT/CH93/00051 Sec. 371 Date Apr. 20, 1994 Sec. 102(e) Date Apr. 20, 1994 PCT Filed Mar. 1, 1993 PCT Pub. No. WO93/17926 PCT Pub. Date Sep. 16, 1993A closure for wine bottles comprising a rigid head 1 and a tear-off safety portion 10, 11. The tear-off portion 10, 11 is in the form of a skirt having an upper ring 10 and a lower truncated conical portion 11 narrowing in the direction of the ring 10. This ring 10 is connected to the head 1 of the closure by a tear-off zone 17 and a generatrix of the skirt 11 is provided with a tearing off portion 33.

114) Family number: 20235739 (US5244117A)

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Title: Method and apparatus for storing and dispensing liquid

Priority: US19920856690 19920324 US19930105565 19930813 WO1993US02328 19930322
US19940336041 19941104

Family:	Publication number	Publication date	Application number	Application date
	<u>AU199348087 A1</u>	19931021	AU19930048087	19930322
	<u>CA2131828 AA</u>	19940909	CA19932131828	19930322
	<u>EP0632778 A1</u>	19950111	EP19930908334	19930322
	<u>EP0632778 A4</u>	19950705	EP19930908334	19930322
	<u>US5244117 A</u>	19930914	US19920856690	19920324
	<u>US5390832 A</u>	19950221	US19930105565	19930813
	<u>US5538028 A</u>	19960723	US19940336041	19941104
	<u>WO9318970 A1</u>	19930930	WO1993US02328	19930322

Probable Assignee: SAMUEL N LOMBARDO

Assignee(s):^(std): LOMBARDO SAMUEL N ; SAMUEL N LOMBARDO

Inventor(s):^(std): LOMBARDO SAMUEL N

Inventor(s): SAMUEL N LOMBARDO

Agent(s): MACRAE AND CO

Designated states: AT AU BB BE BG BR CA CH CZ DE DK ES FI FR GB GR HU IE IT JP KP LI LU MC MG
MN MW NL NZ PL PT RO RU SD SE SK UA VN

International class B67D1/04 B67D1/07 B67D1/14 (Advanced/Invention);
(IPC 8-9): B67D1/00 (Core/Invention)

International class B65B31/00 B65B7/00 B65D83/00 B67D1/07 B67D5/60 F16K47/00 F16K47/04
(IPC 1-7):

CPC: B67D1/0456 B67D1/1455 B67D1/1461 Y10T137/0385 Y10T137/2984 Y10T137/9464

European class: B67D1/04D B67D1/14B6A B67D1/14B6A2

US class: 137/12.5 137/170.1 137/801 141/3 215/4 222/1 222/394 222/464 222/464.1 222/464.3
222/505 222/511 251/118 251/122 251/155 251/331 53/133.2 53/432 53/470

[Classification Explorer](#)

Cited documents: US865451 A, US782648 A, US711458 A, US676009 A, US597842 A, US5244117 A, US5118009 A, US5050806 A, US502451 A, US5022565 A, US4995534 A, US4984717 A, US4867348 A, US4860932 A, US4784299 A, US4778081 A, US4720076 A, US4717048 A, US4707278 A, US4694975 A, US4693054 A, US4671436 A, US462576 A, US4347695 A, US4269387 A, US4211386 A, US4194653 A, US417336 A, US4078578 A, US4000829 A, US3998364 A, US3830265 A, US3823848 A, US3592351 A, US3460589 A, US3426798 A, US3410456 A, US3291441 A, US327402 A, US3238963 A, US3194533 A, US3135412 A, US2928576 A, US2924238 A, US2899170 A, US2678747 A, US2661019 A, US2633150 A, US2628062 A, US2575658 A, US2461909 A, US2345840 A, US234395 A, US2325228 A, US2236619 A, US2234816 A, US2202179 A, US2176947 A, US2173979 A, US2162842 A, US2125102 A, US2119383 A, US2096202 A, US2051509 A, US2035202 A, US2006688 A, US1563916 A, US1235418 A, US1010665 A, IT269321 A, GB950077 A, GB278180 A, GB187401168 A, GB1486245 A, GB1168, FR2636918 A1, FR2597462 A1, EP0306379 A1, DE3240718 A1,

Forward Citations: WO9803812, WO9743203, WO9743203, WO9743202, WO13014618, WO13014618, WO05097665, USD679940, USD585228, US9643746, US9610551, US9309103, US9051166, US8935905, US8931522, US8505442, US8371478, US8297483, US8196783, US8132697, US8033431, US7958919, US7717294, US7669738, US7517385, US7513398, US7419132, US7040514, US7025329, US6994275, US6926176, US6637176, US6557584, US6247614, US5887756, US5842617, US5615804, US5538028, US5390832, US5341956, US2013042940, US2012132670, US2011168736, US2011113973, US2011000250, US2010304944, US2010187264, US2010108192, US2010024660, US2009130274, US2008308575, US2008277422,

US2007228315, US2006278668, US2006180781, US2006124879, US2005242314, US2005236439, US2005167528, US2004261902, US2004144807, US2002162458, US2002150657, LU91190, ITTO20110678, FR2810660, EP2206677, EP2082987, EP2082986, EP1847508, EP1752413, DE20108618, CN102514754, AU2005231653, AU2002234639,

Abstract:

Source: US5244117A Carbonated and non-carbonated beverages are selectively dispensed under the driving force of a one time charge of pressurized inert gas inserted into the headspace of the beverage container at the time of bottling/canning. The gas, preferably nitrogen, is inert to the beverage liquid and is pressurized sufficiently to permit dispensing of all of the liquid from the container via a siphon tube. A cap valve seals the container and includes an elastomeric check valve preventing escape of gas while permitting the siphon tube to be inserted into the container. A throttling and diffusing valve controls outflow from the siphon tube to ambient and prevents fracturing of gas from the beverage liquid to minimize foaming/frothing. The valve has a conical valve member movable axially in a similarly conical valve chamber to establish a flow path having an annular cross-section that increases in circumference as the valve proceeds downstream to thereby gradually reduce the pressure of the liquid flowing through the valve to ambient pressure. A rounded tip on the upstream end of the valve member establishes a pressure stagnation point for the liquid entering the valve chamber. The resulting arrangement minimizes carbonation loss in the liquid so that it does not go flat as successive portions of the beverage are dispensed over long periods of time.

Title: CLOSING CAP FOR THREADED–NECK BOTTLES
Priority: DE19981051331 19981106 DE19995008749 19991103 WO1999EP08434 19991103
Family:

Publication number	Publication date	Application number	Application date
AT260826 E	20040315	AT19990957992T	19991103
AU200015511 A1	20000529	AU20000015511	19991103
AU200015511 A5	20000529	AU20000015511	19991103
DE19851331 A1	20000511	DE19981051331	19981106
DE59908749 D1	20040408	DE19995008749	19991103
EP1077883 A1	20010228	EP19990957992	19991103
EP1077883 B1	20040303	EP19990957992	19991103
ES2217842 T3	20041101	ES19990957992T	19991103
WO0027722 A1	20000518	WO1999EP08434	19991103

Probable Assignee: BERICAP

Assignee(s):^(std): BERICAP ; BERICAP LONGVIC ; BERICAP TECHNOLOGIES RICAL SA ; NUSBAUM PHILIPPE

Assignee(s): BERICAP TECHNOLOGIES RICAL SA LONGVIC CEDEX

Inventor(s):^(std): NUSBAUM PHILIPPE

Inventor(s): PHILIPPE NUSBAUM

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

International class (IPC 8–9): [B65D47/06](#) [B65D47/20](#) [B65D47/24](#) (Advanced/Invention);
[B65D47/04](#) [B65D47/06](#) (Core/Invention)

International class (IPC 1–7): [B65D41/46](#) [B65D47/00](#) [B65D47/06](#) [B65D47/20](#)

CPC: [B65D47/243](#)

European class: [B65D47/24A2](#)

[Classification Explorer](#)

Cited documents: US5680965 A, US2998902 A, FR2572367 A1, FR2270494 A1, DE4121249 A1,

Forward Citations: WO02053472, USD747201, US7611025, FR3046992, EP3196142, AU2002216840,

Abstract:

The invention relates to a closing cap for bottles whose neck (20) has a closing thread (21) and below said thread (21) has a retaining projection (22) for a tear band. The cap consists of a substantially cylindrical jacket (1) and a base (2) which covers the jacket (1) on one side and has integrated closing elements (3) which can be opened and closed independently. To create a cap which has the characteristics described above and can be placed onto conventional threaded–neck bottles yet cannot be screwed off or easily removed in any other manner, the invention provides for the cap jacket (1) to be configured without a thread and for the internal wall of said jacket (1) to have one or more projections (4) pointing inwards which are positioned at a clear distance from the base (2) which is more than the usual axial length of a thread (21) which fits the thread of the bottle neck.

0) US2010163582A – FLUID DISPENSER

116) Family number: 34973062 (US2010163582A)

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Title: FLUID DISPENSER

Priority: AU20080257489 20080530 AU20130263698 20131125 GB20070010315 20070530
 GB20070023420 20071129 JP20100509827 20080530 CN200880100990 20080530
 WO2008EP56655 20080530 RU20090145212 20091208 US20100601361 20100310
 US20140223052 20140324 JP20130207750 20080530 JP20150052056 20150316
 JP20100509827T 20080530

Family:

Publication number	Publication date	Application number	Application date
<u>AR066788 AA</u>	20090909	AR2008P102292	20080530
<u>AR081258 AB</u>	20120718	AR2011P101829	20110527
<u>AU2008257489 AA</u>	20081204	AU20080257489	20080530
<u>AU2008257489 BB</u>	20131212	AU20080257489	20080530
<u>AU2008257489 CA</u>	20140703	AU20080257489	20080530
<u>AU2013263698 AA</u>	20131212	AU20130263698	20131125
<u>BRPI0812353 A2</u>	20150203	BR2008PI12353	20080530
<u>CA2688540 AA</u>	20081204	CA20082688540	20080530
<u>CN102762309 A</u>	20121031	CN200880100990	20080530
<u>CN102762309 B</u>	20150805	CN200880100990	20080530
<u>CN104623772 A</u>	20150520	CN201510002117	20080530
<u>CO6251297 A2</u>	20110221	CO20090148207	20091228
<u>EP2162231 A2</u>	20100317	EP20080760246	20080530
GB200710315 A0	20070711	GB20070010315	20070530
GB200723420 A0	20080109	GB20070023420	20071129
<u>IL202344 A0</u>	20100630	IL20080202344	20080530
<u>IL202344 A1</u>	20161031	IL20080202344	20080530
<u>IN04193KN2009 A</u>	20100319	IN2009KN04193	20091203
<u>JP2010527859 T2</u>	20100819	JP20100509827T	20080530
<u>JP2014050720 A2</u>	20140320	JP20130207750	20131002
<u>JP2015147054 A2</u>	20150820	JP20150052056	20150316
<u>JP5744515 B2</u>	20150708	JP20100509827T	20080530
<u>KR101548498 B1</u>	20150901	KR20097027580	20080530
<u>KR101618351 B1</u>	20160504	KR20147036846	20080530
<u>KR20100038328 A</u>	20100414	KR20097027580	20080530
<u>KR20150013912 A</u>	20150205	KR20147036846	20080530
<u>MX2009013035 A1</u>	20100615	MX20090013035	20080530
<u>NZ581439 A</u>	20130328	NZ20080581439	20080530
<u>RU2009145212 A</u>	20110710	RU20090145212	20080530
<u>RU2012133332 A</u>	20140210	RU20120133332	20120731
<u>RU2466797 C2</u>	20121120	RU20090145212	20080530
<u>SG182139 A1</u>	20120730	SG20120039418	20080530
<u>SG2014009625 A1</u>	20140529	SG20140009625	20080530
<u>TW200916198 A</u>	20090416	TW20080120364	20080530
<u>TW201515714 A</u>	20150501	TW20140135740	20080530
<u>TWI474870 B</u>	20150301	TW20080120364	20080530
<u>US2010163582 AA</u>	20100701	US20080601361	20080530
<u>US2014203049 AA</u>	20140724	US20140223052	20140324
<u>US8678243 BB</u>	20140325	US20080601361	20080530

<u>WO08145714 A2</u>	20081204	WO2008EP56655	20080530	
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Probable Assignee: GLAXO GROUP LTD

Assignee(s):^(std): COLLINS JAMES TERENCE ; GLAKSO GRUP LTD ; GLAXO GROUP LIMIED ; GLAXO GROUP LTD ; GRATZFELD THOMAS FRANZ PAUL ; HERTRAMPF WERNER ; HARMS HEIKO ; LINTERN RICHARD DAVID ; NIEBECKER GERDHAARD ; WAITZ KARL HEINZ ; RAND PAUL KENNETH ; PEARSON ALLEN JOHN ; MEADWESTVACO CALMAR GMBH ; WELP KARL GISBERT ; MEADWESTTVACO CALMAR GMBH ; MIDVESTVAKO KAL MAR GMBKH ; MEADWESTVACO CLAMAR GMBH

Assignee(s): GLAXO GROUP LIMITED ; MEADWESTVACO CALMAR GMBH ; GLAXO GROUP LIMITED ; GLAKSO GRUP LIMITED

Inventor(s):^(std): ALLEN JOHN PEARSON ; COLLINS JAMES TERENCE ; GERDHAARD NIEBECKER ; GRATZFELD THOMAS ; GRATZFELD THOMAS FRANZ PAUL ; HARMS HEIKO ; HEIKO HARMS ; HERTRAMPF MICHAEL ; HERTRAMPF WERNER ; KARL HEINZ WAITZ ; LINTERN RICHARD DAVID ; NIEBECKER GERDHAARD ; PEARSON ALLEN JOHN ; RAND PAUL KENNETH ; RICHARD DAVID LINTERN ; WAITZ KARL HEINZ ; WELP GISBERT KARL ; WELP KARL G ; WELP KARL GISBERT ; WERNER HERTRAMPF ; COLLINS JAMESTERENCE ; VEL P KARL GISBERT ; VAJTS KARL KHAJNTS ; TERENCE COLLINS JAMES ; REHND POL KENNET ; PAUL GRATZFELD THOMAS FRANZ ; NIEBEKKER GERKHARD ; NIEBECKER GERHARD ; KHERTRAMPF VERNER ; KENNETH RAND PAUL ; JOHN PEARSON ALLEN ; LINTERN RICHARD DEHVID ; HEINZ WAITZ KARL ; HARNS HEIKO ; GRATTSFEL D TOMAS FRANTS PAUL ; GISBERT WELP KARL ; DAVID LINTERN RICHARD ; PIRSON ALLEN DZHON ; KOLLINS DZHEJMS TERENS ; KHARMS KHEJKO

Inventor(s): GRATTSFEL'D TOMAS FRANTS PAUL ; HEIKO HARNS ; LINTERN RICHARD DAVID AND ; HERTRAMPE WERNER ; VEL'P KARL GISBERT ; JAMESTERENCE COLLINS ; GISBERT KARL WELP ; THOMAS FRANZ PAUL GRATZFELD ; PAUL KENNETH RAND ; JAMES TERENCE COLLINS ; KARL GISBERT WELP ; KARL HEINZ WAITZ

Agent(s): PHILLIPS ORMONDE FITZPATRICK; ALICIA LLOREDA RICAURTE; RICE JASON NEALE; REINHOLD COHN AND PARTNERS; SEKIYA MITSUO; HIRAKI YUSUKE; DONALDSON AND BURKINSHAW; DONALDSON AND BURKINSHAW LLP; GLAXOSMITHKLINE CORPORATE INTELLECTUAL PROPERTY MAI B482; DWIGHT S; RICE JASON NEALE 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): A61M11/00 A61M11/02 A61M15/08 A61M31/00 B05B B05B11/00 B65D47/34 B65D83/76 B65D88/54 (Advanced/Invention);
A61M11/00 (Advanced/Non-invention);
A61M11/00 B05B11/00 B65D47/34 B65D83/76 B65D88/00 (Core/Invention);
B05B (Subclass/Invention)

International class
(IPC 1-7): B05B11/00

CPC: B05B11/3004 B05B11/00 B05B1/3436 B05B11/007 B05B11/3011 B05B11/3014 B05B11/3021 B05B11/3056 B05B11/307

European class: B05B11/00B9R B05B11/30C2 B05B11/30C5B B05B11/30C5E2 B05B11/30H3F B05B11/30H7D L05B1/34A3B4B L05B11/30C8

US class: 222/321.2 222/321.6 222/321.600P 222/385

[Classification Explorer](#)

Cited documents: WO9525261 A1, WO9220460 A1, WO10004224 A2, WO10004212 A1, WO07138084 A2, WO06125880 A1, WO06125880, WO06003343 A1, WO06003343, WO05075103 A1, WO05048875 A2, WO05045292 A1, WO05044449 A2, WO05030401 A1, WO04026489 A1, WO03078075 A1, WO0235121 A1, WO02100463 A1, WO0033969 A2, USRE28366 E, US8678243 BB, US8602264 BB, US7837070 BB, US7717299 BB, US7182226 BB, US6540117 BB, US6516976 BB, US6505622 BB, US6406207 BA, US6234363 BA, US6056163 A, US6050457 A, US5850948 A, US5816455 A, US5657930 A, US5655688 A, US5624055 A, US5207659 A, US5176296 A, US4735347 A, US4726747 A, US4669664 A, US4262823 A, US4249681 A, US4105146 A, US3921861 A, US3877616 A, US3786963 A, US3786963, US35886 A, US26224 A, US236434 A, US2009236445 AA, US2009026224 AA, US2005236434 AA, US2004035886 AA, US1579806 A,

SU253691 T, NZ523949 A, KR20060060747, KR20050067153, JPS57165264 U, JP60007952 A2, JP57165264 U1, JP57165264 U, JP57165264 U, JP4234577 A2, JP2007511295 T2, JP2004513301 T2, JP2004188121 A2, JP2004188120 A2, JP2002531338 T2, JP2001519494 T2, JP2001508696 T2, JP11508159 T2, JP10263444 A2, JP10263444, GB2002847 A1, FR2835912 A1, FR2708314 A1, EP1375011 A1, EP1202818 A1, DE3339180 A1, DE19610456 B4, DE10017438 A1, CN2483350, CN1128976, CN1127681,

Forward Citations: WO12156098, USD734449, USD734448, USD734447, USD733866, US9266135, US9050433, US2014203049, US2009236445, JP2014532445, JP2014522345, EP2992967, CN103688142,

Abstract:

Source: US2010163582A One aspect of the invention provides a component for a fluid dispenser which defines a dosing chamber for a piston member to stroke in and has an end adapted for engaging a fluid outlet of the fluid dispenser or a seal which overlies the fluid outlet to selectively close and open the fluid outlet or seal. Other aspects are disclosed herein.

117) Family number: 10901751 (US5683658A)

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Title: REAGENT BOTTLE
Priority: AT19950001203 19950714
Family:

Publication number	Publication date	Application number	Application date
AT120395 A	20000215	AT19950001203	19950714
AT406913 B	20001025	AT19950001203	19950714
DE59606006 D1	20001123	DE19965006006	19960701
EP0753746 A2	19970115	EP19960890113	19960701
EP0753746 A3	19980610	EP19960890113	19960701
EP0753746 B1	20001018	EP19960890113	19960701
JP2967153 B2	19991025	JP19960181062	19960711
JP9049844 A2	19970218	JP19960181062	19960711
US5683658 A	19971104	US19960670433	19960626

Probable Assignee: AVL MEDICAL INSTRUMENTS AG**Assignee(s):**^(std) AVL VERBRENNUNGSKRAFT MESSTECH ; AVL MEDICAL INSTR AG

Assignee(s): AVL MEDICAL INSTRUMENTS AG ; AVL MEDICAL INSTRUMENTS AG
 SCHAFFHAUSEN ; AVL GESELLSCHAFT FUER VERBRENNUNGSKRAFTMASCHINEN
 U ; AVL GESELLSCHAFT FUER VERBRENNUNGSKRAFTMASCHINEN UND
 MESSTECHNIK MBH PROF DR DR H C HANS LIST ; AVL MEDICAL INSTRUMENTS
 SCHAFFHAUSEN AG ; A V L MEDICAL INSTR AG ; AA FUAU ERU MEDEIKARU
 INSUTSURUMENTSU AG ; AVL AG ; AVL GES F
 VERBRENNUNGSKRAFTMASCHINEN U MESSTECHNIK MBH PROFDRDRHC HANS
 LIST

Inventor(s):^(std) EERITSUHI KURAINHATSUPURU ; FURANTSU RAISHIYURU ; KLEINHAPPL ERICH ;
 KLEINHAPPL ERICH ING ; NOORMOFIDI DIPL ING ; NOORMOFIDI TAGHI ;
 NOORMOFIDI TAGHI DIPL ING ; REISCHL FRANZ ; REISCHL FRANZ ING ; TAGII
 NOORUMOFUIDEI

Inventor(s): FURANTSU RAISHURU ; NOORMOFIDI TAGHI DIPLING**Designated states:** DE FR GB

International class
 (IPC 8-9): [A61J1/00 B65D1/02 B65D23/10 G01N1/10 G01N33/48 G01N35/02](#)
[G01N35/10](#) (Advanced/Invention);
[A61J1/00 B65D1/02 B65D23/10 G01N1/10 G01N33/48 G01N35/02](#)
[G01N35/10](#) (Core/Invention)

International class
 (IPC 1-7): [A61J1/00 B01L3/00 B65D17/00 B67B1/00 G01N1/10 G01N33/48 G01N35/00 G01N35/02](#)
[G01N37/00](#)

CPC: [Y10T436/11 Y10T436/2575 B65D23/102 B65D1/023 G01N35/10 G01N35/1002](#)**European class:** [B65D1/02D1 B65D23/10B G01N35/10 S01N35/10A](#)

US class: [215/234 215/378 220/367.1 220/601 220/89.2 422/100 422/102 422/103 422/544 422/556](#)
[422/570 422/63 436/180 436/43 73/863.85 73/864.74 73/864.85 73/864.86 D24/121](#)
[D24/224](#)

[Classification Explorer](#)

Cited documents: WO9100520 A1, US5472112 A, US5419316 A, US5417121 A, US5334178 A, US5213967
 A, US5171538 A, US5143236 A, US5125522 A, US5027872 A, US4844870 A,
 US4381776 A, US4243150 A, US4163500 A, US4046610 A, JP57158551, JP4244853,
 FR1115785 A, EP0431352 A2, EP0299662 A2, DE3938559 A1, DE2166571 A1,

Forward Citations: WO02058845, WO02058845, USD718871, USD482793, USD433149, US9636647,
 US8550697, US7731414, US7722811, US7188537, US6599477, US2016318022,
 US2010187253, US2008192567, US2007122910, US2005120810, JP2015111145,
 EP1225450, DE19849591, DE19837434, DE19737173, DE102005057191,

Abstract:

Source: US5683658A A reagent bottle suitable for insertion into a sample analyzer features a sample discharge opening plugged by an elastic, pierceable stopper, and an air inlet. Both the sample discharge opening and the air inlet are located on the same side of the reagent bottle, the axes of the two openings running parallel to each other, such that both openings can be docked onto corresponding sampling and air inlet elements of the analyzer in one and the same working process when the reagent bottle is inserted into the analyzer. The elastic stopper is covered on its outside by a protective foil and has a recess at a puncturing site enabling the sampling element to puncture the foil more easily. Bordering on the recess of the stopper is an area which is prepunctured but offers a tight elastic seal.

0) US3869059A – STOPPERS

118) Family number: 1126314 (US3869059A)

© PatBase

Title: STOPPERS

Priority: GB19720031539 19720705

Family:	Publication number	Publication date	Application number	Application date
	GB1377673 A	19741218	GB19720031539	19720705
	US3869059 A	19750304	US19730372498	19730621

Probable Assignee: SURGICAL EQUIPMENT SUPPLIES LT

Assignee(s):^(std): SURGICAL EQUIPMENT SUPPLIES LI ; SURGICAL EQUIPMENT SUPPLIES LT

Assignee(s): SURGICAL EQUIPMENT SUPPLIES LTD ; SURGICAL EQUIPMENT SUPPLIES LIMITED

Inventor(s):^(std): ELLIS GERARD

International class
(IPC 8-9): [B65D41/18](#) (Advanced/Invention);
[B65D41/02](#) (Core/Invention)

International class
(IPC 1-7): [B65D39/04](#) [B65D41/04](#) [B65D41/18](#) [B65D41/28](#) [B65D55/08](#)

CPC: [Y10S215/01](#) [Y10S215/03](#) [B65D41/185](#) [B65D41/18](#)

European class: [B65D41/18](#) [B65D41/18B](#)

US class: [215/320](#) [215/341](#) [215/358](#) [215/DIG.1](#) [215/DIG.3](#)

[Classification Explorer](#)

Cited documents: US3455500 A, US2893585 A, US2393578 A, US1946981 A, US1706249 A, US1694851 A,

Forward Citations: WO8301767, US6260723, US6044995, US4747511, US4674644, US3958572, US2008223812, GB2311284,

Abstract:

Source: US3869059A A stopper having a body with a sealing surface to engage the inside of a bottle neck, and an integral flexible lip extending from the body to an edge which is to engage the inside of the neck in substantial line contact, the outer surface of the lip being concave when unstressed.

0) GB1010762A – CLOSURE FOR BOTTLES AND THE LIKE

119) Family number: 22882974 (GB1010762A)

© PatBase

Title: Closure for bottles and the like

Priority: GB19610005780 19610216

Family:	Publication number	Publication date	Application number	Application date
	<u>GB1010762 A</u>	19651124	GB19610005780	19610216

Probable Assignee: PERMUTA CLOSURES LTD

Assignee(s):^(std): PERMUTA CLOSURES LTD

Assignee(s): PERMUTA CLOSURES LIMITED

Inventor(s):^(std): ASTRUCK PAUL

International class B65D41/34 (Advanced/Invention);
(IPC 8-9): B65D41/34 (Core/Invention)

International class B65D41/34
(IPC 1-7):

CPC: B65D41/3442 B65D2101/0038

European class: B65D41/34D L65D101/00A3C

[Classification Explorer](#)

Forward Citations: WO9118801, US3441161, GB2227239, EP0056730,

Abstract:

Source: GB1010762A 1,010,762. Stoppers. PERMUTA CLOSURES Ltd. Feb. 16, 1962 [Feb. 16, 1961], No. 5780/61. Heading B8T. A screw-type bottle closure is moulded in one piece from a resilient plastic material, e.g. polythene, and includes a skirt portion 4 with an annular rib 5 which engages beneath a shoulder 6 on the bottle neck beneath the screwed portion 7 thereof when the closure is fully screwed home; thus, unscrewing of the closure is prevented so long as the skirt remains intact. The skirt has spaced grooves 8 forming lines of weakening, and a tab portion 12, whereby the skirt may be torn from the closure so that the latter may be unscrewed. The tab defined by slots 10, 11 is urged outwardly from the bottle by a projection 13. In a modification the closure comprises a screwed stopper adapted to screw into a bottle neck, and is integral with a skirt and tab as above described.

120) Family number: 33288939 (US2006219800A)

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Title: UNIVERSAL BOTTLE FOR PLUG-IN SCENTED OIL**Priority:** CN200520070221U 20050325

Family:	Publication number	Publication date	Application number	Application date
	<u>CN2792961 Y</u>	20060705	CN200520070221U	20050325
	<u>US2006219800 AA</u>	20061005	US20050138274	20050527

Probable Assignee: LIU JUNWU**Assignee(s):^(std):** LIU JUNWU**Inventor(s):^(std):** LIU JUNWU**Inventor(s):** JUNWU LIU**Agent(s):** LAU AND ASSOCIATES

International class A24F25/00 A61L9/03 A61L9/04 B65D1/02 (Advanced/Invention);
 (IPC 8-9): A24F25/00 A61L9/015 A61L9/04 B65D1/02 (Core/Invention)

CPC: A61L9/037**European class:** A61L9/03W**US class:** 239/44[Classification Explorer](#)

Cited documents: USD505330 S1, USD479804 S1, US6899280 BB, US6766773 BB, US6622662 BA, US6386462 BA, US6104867 A, US5909845 A, US5647053 A, US5038394 A, US4739928 A, US4621768 A, US2004184969 AA, US2004182949 AA, US2004062531 AA,

Abstract:

Source: US2006219800A The present utility model relates to a removable liquid bottle, consisting of a bottle for holding liquid, a wick inside the bottle for drawing liquid, a neck in the upper part of the bottle forming an opening at one end; a screw thread tapped on the neck; a stopper, set at the opening, cooperatively working with the wick for sealing purpose; an axial fixation collar, of which the outer diameter is larger than the diameter of the screw thread, located at a lower part of the neck than the screw thread; an projection with a bevel and said projection with a bevel is a wedge with a narrow top and a wide bottom in the direction of the height of the bottle; a fixation projection on the rear external surface of the bottle. The present utility model sets several fixation surfaces which can be used to connect the liquid bottle to a vaporization device of any structure and enhance the removability of the bottle and convenience for the customer.

0) US3874541A – BOTTLE STOPPER

121) Family number: 1131024 (US3874541A)

© PatBase

Title: BOTTLE STOPPER

Priority: FR19710006229 19710224

Family:	Publication number	Publication date	Application number	Application date
	US3874541 A	19750401	US19720228558	19720223

Probable Assignee: SAINT GOBAIN

Assignee(s):^(std): SAINT GOBAIN

Assignee(s): SAINT GOBAIN INDUSTRIES

Inventor(s):^(std): LAGNEAUX JEAN ; VERMEERBERGEN LEON ROGER

International class
(IPC 8-9): [B65D39/04](#) (Advanced/Invention);
[B65D39/00](#) (Core/Invention)

International class
(IPC 1-7): [B65D39/04](#) [B65D41/32](#)

CPC: [B65D39/04](#)

European class: [B65D39/04](#)

US class: [215/253](#) [215/352](#) [215/353](#) [215/364](#)

[Classification Explorer](#)

Cited documents: US844400 A, US40415 A, US3610306 A, US3604583 A, US3415405 A, US2674472 A,

Forward Citations: WO9520527, WO0192124, US7757872, US7565984, US6022816, US5665462, US5513768, US5361922, US4515283, US4194640, US4089432, US2016302997, US2012261381, US2010163512, US2006102628, US2005115732, GB2505523, GB2505523, ES2171350,

Abstract:

Source: US3874541A Combination of bottle neck and stopper therefor in which frusto-conical internal and external coaxial surfaces of the neck and stopper respectively, cooperate to move a resilient sealing ring upwardly on and along the external surface of the stopper, by and in response to insertion of the stopper into the neck until, in final upward position the stretched ring snaps into an annular channel in the stopper and at the same time sealingly engages an inwardly curled rim at the top of the bottle neck. In this final position an external flange integral with the stopper engages the top surface of the rim and assists in effecting a gas- and liquid-tight seal of the stopper with the neck. The construction is particularly suitable for use with bottles of synthetic plastic material and in containing liquids with occluded gas such as beer, soda water, etc. because the seal effected by the ring increases in effectiveness with increase in gas pressure within the bottle.

122) Family number: 1257258 (US4004704A)

© PatBase

Title: Tamper-proof closure with safety means**Priority:** FR19750019377 19750620

Family:	Publication number	Publication date	Application number	Application date
	BE841527 A	19760901	BE19760166789	19760506
	BE841527 A1	19760901	BE19760166789	19760506
	CA1053181 A1	19790424	CA19760251973	19760506
	DE2624806 A1	19761230	DE19762624806	19760602
	FR2314873 A1	19770114	FR19750019377	19750620
	FR2314873 B1	19800104	FR19750019377	19750620
	GB1503863 A	19780315	GB19760020266	19760517
	US4004704 A	19770125	US19760686597	19760514

Probable Assignee: CAPTOCAP LTD**Assignee(s):^(std):** CAPTOCAP LTD**Assignee(s):** DIENER BARRIE MRS ; HILAIRE FERNAND ; CAPTOCAP LIMITED**Inventor(s):^(std):** HILAIRE FERNAND

International class [B65D41/04](#) [B65D50/04](#) [B65D55/02](#) ^(Advanced/Invention);
^(IPC 8-9) [B65D50/00](#) ^(Core/Invention)

International class [A61J1/00](#) [B65D41/04](#) [B65D51/18](#) [B65D51/24](#) [B65D55/02](#) [B65D55/12](#) [B65D85/56](#)
^(IPC 1-7)

CPC: [B65D50/041](#)**European class:** [B65D50/04B](#)**US class:** [215/211](#) [215/217](#) [215/220](#) [215/258](#)[Classification Explorer](#)**Cited documents:** US3944102 A, US3830390 A,

Forward Citations: US7796472, US6450352, US6223946, US6202876, US6032829, US5915576, US5762215, US5477972, US4605135, US4386712, US4330067, US4134513, US2016288965, US2009078670, US2006124501, US2004238539, GB2142612, DE3315548, CN104925389,

Abstract:

Source: US4004704A This tamper-proof plastic closure device with safety means comprises an internally screw-threaded plug matching the screw-threaded and beaded neck of a container. Said plug is retained by the neck bead engaging a groove formed in the outer skirt of said plug and the plug itself is covered by a cap in smooth frictional contact therewith; the central area of the internal surface of the flexible and bulged top wall of said cap which is bounded by a rigid projecting circular rib, comprising means adapted to co-act with matching means provided in the central area of said plug when a sufficient pressure is exerted on said area, so as to rotatably drive said plug and release same from said retaining bead. This closure device is intended more particularly for bottles that should not be opened by children.

0) US3471066A – SQUEEZE BOTTLE AND DISPENSING CAP THEREFOR

123) Family number: 884169 (US3471066A)

© PatBase

Title: SQUEEZE BOTTLE AND DISPENSING CAP THEREFOR

Priority: US19680696213 19680108

Family:	Publication number	Publication date	Application number	Application date
	<u>US3471066 A</u>	19691007	US19680696213	19680108

Probable Assignee: LEEDS AND MICALLEF

Assignee(s):^(std): LEEDS AND MICALLEF

Inventor(s):^(std): MICALLEF LEWIS A

Inventor(s): LEWIS A MICALLEF

International class
(IPC 8-9): B65D47/24 (Advanced/Invention);
B65D47/04 (Core/Invention)

International class
(IPC 1-7): B05B9/04 B65D47/26 B65D83/00 B65D83/14 B67D3/00

CPC: B65D47/242

European class: B65D47/24A1

US class: 222/519 D9/448

[Classification Explorer](#)

Cited documents: US3261513 A, US3255934 A, US2055819 A,

Forward Citations: US9737084, US9439446, US9010581, US8376186, US7025232, US6757957, US6622895, US6615473, US6394323, US6357625, US6311878, US6241128, US6041975, US5918777, US5850950, US5749496, US5284273, US5197634, US5016787, US4997108, US4930688, US4919309, US4878604, US4735346, US4412634, US2013105512, US2011226810, US2004262334, DE19840858,

Abstract:

Source: US3471066A ABSTRACT OF THE DISCLOSURE A container having a neck defining an opening into the container interior and a one-piece closure therefor which is mounted to the neck and adapted to be shifted 15 from a first position at which the top of the neck sealingly engages portions of the closure so as to completely seal the container interior to a second position at which the contents of the container may be conveniently removed through a defined passageway extending through the closure. The closure includes a top portion adapted to cover the container opening and to cooperate with the neck in sealing the container, a first apron depending from the top portion and adapted to sealingly engage the exterior surfaces of the neck, a second apron depending from the top and adapted to sealingly engage the interior surfaces of the neck, passageway defining surfaces extending through the first and second aprons to the closure exterior, and means to limit the displacement of the closure along the container neck between the first and second positions. B

124) Family number: 21496999 (FR1433437A)

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Title: DISPOSITIF D'OBTURATION INVIOLEABLE ET ETANCHE POUR RECIPIENTS DE TOUTE NATURE DEVICE AND SHUTTER INVIOLEABLE SEALED CONTAINERS FOR ANY KIND OF (Machine translation)

Priority: FR19650005567 19650215

Family:	Publication number	Publication date	Application number	Application date
	FR1433437 A	19660401	FR19650005567	19650215

Inventor(s):^(std) FILIPPI FRANCOIS ; RUSAC HENRI

International class B65D47/10 B65D51/22 B67B7/02 (Advanced/Invention);
(IPC 8-9); B65D47/06 B65D51/18 B67B7/00 (Core/Invention)

International class B65D55/12
(IPC 1-7);

CPC: B65D47/10 B65D51/222 B65D2251/0012 B65D2251/0087 B67B7/02

European class: B65D47/10 B65D51/22 B65D51/22A1 B67B7/02 L65D251/00Y2B L65D251/00Y6J

[Classification Explorer](#)

Abstract:

Source: FR1433437A [Source: Claim 1] **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. Lerette et son application contre le flanc superieur 7 de la gorge 5. Dans l'exemple de la figure 1, le corps cylindrique 1 est prolonge vers le haut par une tubulure retrecie 10 fermee a sa partie superieure et qui est actionnee, par exemple suivant la ligne oblique ;' au moment de la mise en service de la bouteille, un capuchon 11, pouvant tre relie a l'obturateur 1 par un lien convenable, notamment une bandelette en matiere plastique, permettant d'obturer la tubulure 10 apres son ouverture. Dans la forme de realisation representee en figure 2, le corps cylindrique 1 de l'obturateur presente interieurement, a la hauteur de la collerette 4, une cloison ou membrane transversale 12 destinee a tre percutee ou decoupee a la mise en service du recipient. A cet effet, l'obturateur comporte un bouchon 13 s'introduisant dans le corps 1 et dont le bord inferieur presente une ou plusieurs dents telles que 14, 14' permettant de perforer la membrane 12 et de la decouper par rotation du bouchon 13. Dans la variante de la figure 3, le corps 1 est limite a sa partie inferieure disposee au-dessous de la collerette 4 et la membrane 12 constitue le fond du corps 1 qui recoit comme dans la figure 2 un bouchon perforateur 13. Les figures 4 et 5 representent une forme de realisation particulierement utilisable pour des bouteilles de vin. L'obturateur est constitue par un corps creux 15 muni comme precedemment d'une collerette 16 semblable a celle des realisations precedentes, mais legerement plus souple, s'engageant dans la gorge 17 du goulot 18 de la bouteille. Le corps creux 15 est ferme a son extremite superieure par une tte debordante 19 qui, dans la position de fermeture representee en figure 4 se trouve quelque peu ecartee du bord superieur du goulot 18 de facon a permettre l'introduction d'un outil 20, par exemple en forme de fourchette, permettant d'extraire l'obturateur en exerçant une pesee sur le manche de l'outil en prenant appui sur le bord du goulot comme visible en figure 4. Apres extraction, l'obturateur 17-19 pourra servir comme un bouchon ordinaire comme represente en figure 5. RESUMIE 1" Dispositif d'obturation inviolable et etanche pour recipients de toute nature et plus specialement pour les bouteilles et flacons en matiere plastique ou en verre, caracterise par le fait qu'il comporte un obturateur en matiere synthetique moule muni, dans sa partie cylindrique s'introduisant dans le goulot du recipient, d'une collerette de verrouillage d'un diametre superieur au diametre interieur du goulot et engagee a force par deformation elastique dans une gorge menagee a l'interieur de ce goulot. 20 Formes de realisation d'un dispositif suivant 1", presentant en outre une ou plusieurs des caracteristiques suivantes a. La gorge menagee dans le goulot presente deux flancs sensiblement orthogonaux, le flanc superieur presentant une inclinaison plus faible par rapport a l'axe du goulot que le flanc inferieur; b. Le goulot presente au-dessus de la gorge un degagement d'un diametre superieur a celui de la partie inferieure du goulot et se terminant par une entree conique facilitant l'enfoncement de la collerette; c. L'obturateur constitue par un corps creux se termine a sa partie superieure par un prolonge- ment tubulaire ferme qui est sectionne, de preference obliquement, lors de la mise en service du recipient pour former bec verseur, un capuchon amovible permettant de refermer ledit bec; d. L'obturateur est constitue par un corps cylindrique ouvert a son extremite superieure et muni dans son fond ou en son milieu d'une cloison ou membrane etanche, un bouchon s'introduisant dans l'obturateur etant muni sur son bord inferieur d'un ou de plusieurs organes coupants permettant de decouper ladite membrane; e. L'obturateur est constitue par un corps cylindrique creux presentant a son extremite superieure une tte legerement ecartee du bord superieur du goulot de facon a permettre d'introduire entre cette tte et le goulot un outil, par exemple en forme de fourchette ou de decapsuleur, permettant d'extraire l'obturateur. [Source: Claim 1] ** WARNING ** start of CLMS field may contain end of DESC **. Lerette and its application against the upper side 7 of the groove 5. In the example of Figure 1, the cylindrical body 1 is extended upwards by a tube shrunk 10 closed at its upper part and which is actuated, for example following the oblique line ;' when setting the bottle service, a cap 11, which can be connected to the plug 1 by a suitable link, including a strip of plastic material, for closing the tube 10 after its opening. In the form of realization represented in Figure 2, the cylindrical body 1 of the stopper presents internally, the height of the collar 4,

partition or transverse membrane 12 destined to be struck or cut to setting recipient of the service. To this end, the closure includes a plug 13 to be inserted into the body 1 and whose lower edge has one or more teeth such as 14, 14' for perforating the membrane 12 and the cut out by rotation of the cap 13. In the variant of Figure 3, the body 1 is limited to its lower portion disposed below the flange 4 and the diaphragm 12 constitutes the bottom of the body 1 which receives as in Figure 2 a perforator cap 13. Figures 4 and 5 represent a form of realization particularly useful for wine bottles. The shutter is a hollow body 15 as previously provided a similar flange 16 to that of previous achievements, but slightly more flexible, engaging in the groove 17 of the neck 18 of the bottle. The hollow body 15 is closed in its upper end by a head overflowing 19 which, in the closed position represented in Figure 4 is somewhat remote from the upper edge of the neck 18 of way to permit the introduction of a tool 20, eg in the form of fork to extract the plug by exerting a pressure on the handle of the tool resting on the edge of the neck as shown in Figure 4. After extraction, the shutter can serve 17-19 as an ordinary cap as represented in Figure 5.

RESUME 1 "an inviolable and waterproof sealing for containers of all kinds and especially for bottles and bottles out of plastic or glass, characterized by the fact that it comprises a shutter synthetic material in the mold provided in its cylindrical part being introduced into the neck of the container, a locking collar of a diameter superior to the inner diameter of the neck and committed itself to force by elastic deformation in a controlled groove on the inside this neck. 20 Forms of realization of a device 1 ", presenting further one or more of the following characteristics a. The groove formed in the neck presents two substantially orthogonal sides, the upper side presenting a lower inclination relative to the axis of neck as the lower flank. b the neck presents above a throat degagement a diameter superior to that of the lower part of the neck and ending with a conical entrance facilitating insertion of the collar;. c L the shutter is a hollow body ends at its upper part by a tubular extension that is sectioned, preferably obliquely at the commissioning container to form spout, a removable cap for closing said spout; d. the obturator is constituted by a cylindrical body open at its upper end and provided in its bottom or in the middle of a partition or waterproof membrane, a plug to be inserted into the stopper being provided on its lower edge of one or more cutting members for cutting said membrane; e. The shutter is a hollow cylindrical body has its upper end presenting a slightly spaced head of the upper edge of the neck to allow a way to introduce between the head and the neck of a tool, such as fork-shaped or bottle-opener, to extract the shutter.

125) Family number: 51569744 (US2012187069A)

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Title: COMPACT SPHERICAL BOTTLE WITH FLAT SIDES**Priority:** US20110435649P 20110124 US20120354187 20120119

Family:	Publication number	Publication date	Application number	Application date
	<u>US2012187069 AA</u>	20120726	US20120354187	20120119
	<u>WO12102972 A2</u>	20120802	WO2012US22098	20120120
	<u>WO12102972 A3</u>	20121004	WO2012US22098	20120120

Probable Assignee: AMCOR LTD**Assignee(s):^(std):** AMCOR LTD ; HARRIS IVAN F ; PHILIP BRADLEY S ; WILSON BRADLEY**Assignee(s):** AMCOR LIMITED**Inventor(s):^(std):** HARRIS IVAN F ; PHILIP BRADLEY S ; WILSON BRADLEY**Agent(s):** VESBIT THOMAS E 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 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

International class B29C49/00 B65D1/02 B65D23/00 (Advanced/Invention)
(IPC 8-9):

CPC: B29C49/06 B29L2031/7158 B65D1/0223**European class:** B29C49/06 B65D1/02D L29L31/7158**US class:** 215/376 215/381 215/382 215/44 215/44P 264/523 264/523S[Classification Explorer](#)

Cited documents: USD596489 S1, USD534803 S1, USD487697 S1, USD469361 S1, USD280707 S1, US7780025 BB, US7051892 BA, US6036037 A, US5407086 A, US5381910 A, US5064073 A, US3054535 A, US2098823 A, US2010072095 AA, US2009057321 AA, US2008245757 AA,

Forward Citations: USD773937, USD756228, US9688459, US2013292287, EP2892811, AU2013313283,**Abstract:**

Source: US2012187069A A plastic container with a longitudinal axis includes a neck region with an opening into the container. The container also includes a base region that closes off the container and a sidewall continuously extending from the neck region to the base region. The sidewall includes a rounded portion and at least one panel. The rounded portion lies substantially on an imaginary rounded object that is three dimensional and that is entirely rounded. The panel lies within an imaginary plane that intersects the imaginary rounded object.

Title:	Bottle pack crate and bottle pack therefor			
Priority:	CA19750234353 19750826		US19750553845 19750227	
Family:	Publication number	Publication date	Application number	Application date
	<u>CA1051838 A2</u>	19790403	CA19770289569	19771026
	<u>CA1053614 A1</u>	19790501	CA19750234353	19750826
	<u>US4071162 A</u>	19780131	US19750553845	19750227
Probable Assignee:	SCHOELLER INT GMBH AND CO			
Assignee(s)^{:(std):}	SCHOELLER INT GMBH AND CO			
Assignee(s):	SCHOELLER INT GMBH AND CO KG ; SCHOELLER INTERNATIONAL G M B H AND CO KG ; SCHOELLER INTERNATIONAL GMBH AND CO KG ; STEINLEIN RUDOLF F ; SCHOELLER CHRISTINA			
Inventor(s)^{:(std):}	SCHOELLER CHRISTINA ; STEINLEIN RUDOLF F			
International class ^{(IPC 8-9):}	<u>B65D1/24 B65D1/38 B65D25/10 B65D85/30</u> (Advanced/Invention); <u>B65D1/00 B65D1/22 B65D85/30</u> (Core/Invention)			
International class ^{(IPC 1-7):}	<u>B65D1/24 B65D1/38 B65D25/10 B65D85/30</u>			
CPC:	<u>B65D1/243 B65D2501/24082 B65D2501/24133 B65D2501/24152 B65D2501/24254 B65D2501/24324 B65D2501/2435 B65D2501/24522</u>			
European class:	<u>B65D1/24B L65D501/24B4B5 L65D501/24B4D3 L65D501/24B4F1 L65D501/24B6B3F L65D501/24B6J L65D501/24B6N1 L65D501/24B8D2</u>			
US class:	<u>206/203 217/19 220/21 220/515 220/516 220/518</u>			
Classification Explorer				
Cited documents:	US3863759 A, US3842976 A, US3517852 A, US3428207 A, US3357625 A, US3206020 A, US3178052 A, US3171562 A, US3045863 A, US3039651 A, US2918379 A, US2821327 A, US2603377 A, US2459921 A, US2407079 A, GB758517 A, GB1152038 A, FR1366608 A, FR1320916 A, FR1255160 A, CH478031 A,			
Forward Citations:	WO9616869, WO9205075, USD511894, USD494867, USD485756, USD466018, USD465417, US9682808, US9475602, US8893891, US8636142, US8448806, US8353402, US8109408, US7549539, US7281641, US7207458, US7086531, US7017746, US5842572, US5660279, US5651461, US5529176, US5009314, US4978002, US4899874, US4538742, US4410099, US4342388, US4295576, US4269309, US2009223854, US2006169620, US2001015329, EP0714833, EP0565207, DE2914993, DE2848374, DE2848373.			

Abstract:

Source: US4071162A A crate for beverage bottles and the like has separators for the bottles in the form of clusters of pillars extending upward from the lattice work bottom of the crate, each cluster being centered on the intersection of four bottle cells of the crate. The pillars of the same cluster are separated by one or two vertical slot-like gaps extending to the crate bottom to receive the partitions of a disposable bottle pack, so that the bottles can be loaded in the crate after they have already been placed in the disposable bottle packs in which they will go to consumer. The bottom of the bottle pack is provided with holes to allow the bottle separator pillars of the crate to extend up into the bottle pack. Instead of a single bottle pack fitting into the crate, two or more smaller bottle packs may fit adjacently into the crate, with their adjoining walls fitting into the same slot-like gaps of the pillar cluster. The crate can also be used to transport empty bottles returned after the bottle packs have been thrown away.

127) Family number: 18768136 (GB428577A)

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Title: Improvements in or relating to non refillable bottles**Priority:** GB19340025586 19340905

Family:	Publication number	Publication date	Application number	Application date
	<u>GB428577 A</u>	19350515	GB19340025586	19340905

Probable Assignee: MORRIS SHAPIRO**Assignee(s):**^(std): MORRIS SHAPIRO

International class B65D55/04 (Advanced/Invention);
^{(IPC 8-9):} B65D55/02 (Core/Invention)

International class B65D55/12
^{(IPC 1-7):}

CPC: B65D55/04**European class:** B65D55/04[Classification Explorer](#)**Forward Citations:** US2526225,**Abstract:**

Source: GB428577A 25586. [Class 125 (i)] A frangible stopper has an upper part projecting from a bottle protected by a metallic cover 8, and a passage 7 in the lower part to discharge the contents when the upper part is removed by breakage. The stopper is retained in the bottle neck by spring clips.

128) Family number: 22995582 (FR1262673A)

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Title: DISPOSITIF DE BOUCHAGE CLOSURE DEVICE (Machine translation)**Priority:** FR19600824823 19600420

Family:	Publication number	Publication date	Application number	Application date
	<u>FR1262673 A</u>	19610605	FR19600824823	19600420

Inventor(s):(std): SEGUIN RAYMOND

International class B65D41/02 B65D41/06 B65D45/00 (Advanced/Invention);
 (IPC 8-9): B65D41/02 B65D41/04 B65D45/00 (Core/Invention)

International class B65D41/06
 (IPC 1-7):

CPC: B65D45/00 B65D41/02 B65D41/065**European class:** B65D41/02 B65D41/06B B65D45/00[Classification Explorer](#)**Forward Citations:** FR2662427, FR2357432, FR2357432,**Abstract:**

Source: FR1262673A [Source: Claim 1] 1. RESUME L'invention a principalement pour objets 1" Un dispositif de bouchage pour recipient a goulot, tel que bouteille ou flacon, remarquable notamment par les caracteristiques suivantes considerees separement ou en combinaisons a. Il comporte une capsule en matiere souple destinee a coiffer le goulot et une bague en matiere rigide capable d'un mouvement telescopique par rapport a la capsule et autour d'elle, et la capsule est munie d'elements externes adaptes pour cooperer par coincement avec des elements internes de la bague, dans des conditions telles que lorsque la capsule et la bague sont, l'une par rapport a l'autre en position rentree, et que la capsule coiffe le goulot, un deplacement angulaire de la bague amene en position de coincement lesdits elements, grace a quoi la bague vient en appui sur la capsule en la serrant de facon etanche au contact du goulot; b. Le goulot comportant un bord arrondi auquel fait suite une gorge externe raccordee a une partie convergeant vers ledit bord, la capsule comporte une jupe relativement longue destinee a s'appliquer en se deformant sur la partie convergente; c. La jupe de la capsule comporte un bourrelet interne adapte pour s'engager dans la gorge d goulot; d. La bague forme un chapeau dont le fond est muni d'un bossage capable de serrer de facon etanche le dessus de la capsule, formant membrane d'obturation, au contact des bords du goulot; e. Ledit bossage est annulaire; f. La jupe de la capsule est munie d'un certain nombre d'elements en saillie externe formant rampes helicoidales avec lesquels cooperent un nombre egal d'elements en saillie interne formant rampes helicoidales qui sont formees sur la bague; g. Les saillies externes de la jupe sont espacees circonferelement de maniere a permettre aux saillies internes de la bague de passer dans les intervalles qui les separent, lorsque la bague est deplacee telescopiquement par rapport a la capsule; h. La capsule est munie a sa partie superieure d'une collerette radiale grace a laquelle le chapeau est retenue entre son fond et ses saillies internes. 20 Un procede d'assemblage du dispositif de bouchage defini sous 1, ce procede etant remarquable notamment par les caracteristiques suivantes considerees separement ou en combinaisons a. On execute separement la capsule en matiere souple, munie de ses elements de coincement, une piece cylindrique munie a l'une de ses extremités de saillies internes conjuguées avec les elements de coincement de la capsule, et un disque eirculaire pouvant s'ajuster sur l'autre extremité de la piece cylindrique, cette dernière et le disque etant faite en une même matiere plastique rigide, on enfle la capsule par son extremité destinee a s'emboiter sur le goulot dans l'extremité opposee aux saillies de la piece cylindrique, on fait glisser axialement la capsule dans cette dernière, de maniere que sa partie superieure soit en retrait par rapport a l'extremité correspondante de la piece cylindrique on applique sur cette extremité un solvant de la matiere constituant le disque et la piece cylindrique, on ajuste le disque sur cette dernière et on serre le disque et la piece cylindrique l'un contre l'autre de maniere a les reunir par collage; b. Le disque et la piece cylindrique etant en polystyrene, ledit solvant est de l'acetate d'ethyle. [Source: Claim 1] 1. SUMMARY The invention mainly objects 1 "A closure device for a container neck, such as a bottle or flask, especially remarkable by the following regarded separately or in combinations has features. It has a flexible material capsule intended to cap the neck and a ring of rigid material capable of telescopic movement relative to the capsule and around it, and the capsule is provided with external elements adapted to cooperate by jamming with the internal elements of the ring, under conditions such that when the cap and the ring are, relative to the other in the retracted position, and the capsule caps the neck, an angular displacement of the ring brings into said elements clamping position, whereby the ring comes in pressing the capsule by tightening the sealed way in contact with the neck;. b the neck having a rounded edge which is adjoined by an outer groove connected to a portion converging towards said edge, the capsule comprises a relatively long skirt intended to apply by deforming of the tapering section; c. The skirt of the cap has an internal bead adapted to engage in the groove of neck; d. The ring forms a cap whose bottom is provided with a boss able to tighten to waterproof the top of the cap, sealing membrane forming, in contact with the edges of the neck; e. Said boss is annular; f. The skirt of the cap is provided with a number of external projection elements forming helical ramps which cooperate with an equal number of inner projecting elements

forming helical ramps which are formed on the ring; g. External projections of the skirt are spaced circumferentially of way has internal projections allow the ring to pass in the gaps that separate them, when the ring is MOVED telescopically with respect to the capsule; h. The capsule is provided at its upper part with a radial collar by which the cap is held between its bottom and its internal projections. 20 A method of assembling the closure device defined under 1, such process being especially remarkable by the following characteristics regarded separately or in combinations has. We execute separately the capsule flexible material, provided with its jamming of Elements, provided a cylindrical piece to one of its extremities of conjugate internal projections with the elements of jamming the capsule, and a eireulaire disc that can fit on the other end of the cylindrical piece the latter and the disc being made of a same rigid plastic material, is threaded the capsule by its end intended to be clamped on the neck in the end opposite to the projections of the cylindrical part, it slides axially the capsule in the latter, in such a manner that its upper part is recessed relative to the corresponding extremity of the cylindrical pieces is applied to this extremity a solvent of the material constituting the disk and the cylindrical room, the adjusted drive on the latter and greenhouse disc and cylindrical pieces against one another in such a manner has reunite them by gluing; b. The disc and the cylindrical part being polystyrene, said solvent is ethyl acetate.

Title: BOTTLE WITH EAR**Priority:** JP19920044054 19920603 JP19920044054U 19920603

Family:	Publication number	Publication date	Application number	Application date
	<u>AR248004 A1</u>	19950531	AR19930325074	19930602
	<u>AU199339936 A1</u>	19931209	AU19930039936	19930531
	<u>AU654913 B2</u>	19941124	AU19930039936	19930531
	<u>BRMU7300951 U</u>	19940301	BR1993MU00951U	19930602
	<u>EG20040 A</u>	19970531	EG19930000344	19930605
	<u>IL105837 A0</u>	19930922	IL19930105837	19930528
	<u>IL105837 A1</u>	19960514	IL19930105837	19930528
	<u>JP2550763 Y2</u>	19971015	JP19920044054U	19920603
	<u>JP5095723 U1</u>	19931227	JP19920044054U	19920603
	<u>NZ247743 A</u>	19950427	NZ19930247743	19930531
	<u>ZA9303821 A</u>	19931227	ZA19930003821	19930601

Probable Assignee: A K TECH LAB INC**Assignee(s):**^(std): A K TECH LAB INC ; AK TECHNICAL LABORATORY INC ; TECHNICAL LAB INC AK**Assignee(s):** A K TECHNICAL LABORATORY INC**Inventor(s):**^(std): SETSUYUKI TAKEUCHI ; TAKEUCHI SETSUYUKI ; TOKEUCHI SETSUYUKI**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; REINHOLD COHN AND PARTNERS

International class
^(IPC 8-9): B29B11/14 B29C49/06 B29C49/08 B29C49/12 B29C49/20 B29C49/42 B65D1/02 B65D23/00 B65D23/10 B65D25/28 B65D5/46 B65D5/462 (Advanced/Invention);
B29L22/00 (Advanced/Non-Invention);
B29B11/14 B29C49/06 B29C49/08 B29C49/12 B29C49/20 B29C49/42 B65D1/02 B65D23/00 B65D23/10 B65D25/28 B65D5/46 (Core/Invention);
B29D B65D (Subclass/Invention)

International class
^(IPC 1-7): B29B11/14 B29C49/06 B29C49/08 B29C49/12 B29C49/20 B29C49/42 B29D B29L22/00 B65D1/02 B65D23/00 B65D23/10 B65D25/28 B65D5/46 B65D5/462

[Classification Explorer](#)**Cited documents:** US4368826 A, AU596144 B2, AU4952685 A1,**Forward Citations:** JP2008037505,**Abstract:**

Source: AU199339936 A A bottle with an ear obtained by orientation blow molding, in which a mounting groove (4a) positioned at a predetermined height has a large diameter and its upper portion is composed of an outer wall in the form of an injection molded flange (27) and an inner wall oriented internally thereof and placed in close contact therewith. The mounting groove (4a) having a predetermined width in an outer periphery thereof, is formed below a mouth portion of the bottle by injection orientation blow molding. An upper edge of the mounting groove (4a) is formed to have an edge having a plurality of notches at equal intervals. A mounting ring internally provided with a plurality of projecting surfaces positioned at the mounting groove (4a) through the notches and is formed integral with a bended end of an ear The projecting surfaces of the mounting ring and the upper edge ./2

0) US2002190023A – RECEPTACLE CAP HAVING AROMATIC PROPERTIES

130) Family number: 28286803 (US2002190023A)

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Title: RECEPTACLE CAP HAVING AROMATIC PROPERTIES

Priority: US19970797593 19970207 US19970874521 19970613 US19980093043 19980608
US20020211537 20020805 US20030638191 20030811 WO1999US12682 19990607

Family:	Publication number	Publication date	Application number	Application date
	AT289960 E	20050315	AT19990927295T	19990607
	AU199944238 A1	19991230	AU19990044238	19990607
	DE69923953 D1	20050407	DE19996023953	19990607
	DE69923953 T2	20060427	DE19996023953T	19990607
	EP1056660 A1	20001206	EP19990927295	19990607
	EP1056660 A4	20020313	EP19990927295	19990607
	EP1056660 B1	20050302	EP19990927295	19990607
	US2002190023 AA	20021219	US20020211537	20020805
	US2004028779 AA	20040212	US20030638191	20030811
	US6045833 A	20000404	US19980093043	19980608
	US7005152 BB	20060228	US20020211537	20020805
	WO9964323 A1	19991216	WO1999US12682	19990607
	WO9964323 C2	20000713	WO1999US12682	19990607

Probable Assignee: FLAVOR PACKAGE INC

Assignee(s):^(std): FLAVOR PACKAGE INC ; LANDAU STEVEN ; STEVEN LANDAU

Assignee(s): LANDAU STEVEN M

Inventor(s):^(std): LANDAU STEVEN ; LANDAU STEVEN RYDAL PA ; STEVEN LANDAU ; LANDAU STEVEN M

Inventor(s): LANDAU STEVEN RYDAL PA 19406

Agent(s): LAMORTE AND ASSOCIATES

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

International class
(IPC 8-9): [A47G19/22](#) [B65D51/00](#) [B65D83/00](#) [B65D85/72](#) (Advanced/Invention);
[A47G19/22](#) (Core/Invention)

International class
(IPC 1-7): [A23G1/00](#) [A47G19/22](#) [B65D51/00](#) [B65D83/00](#) [B65D85/72](#)

CPC: [B65D51/00](#) [B65D2203/12](#) [A47G19/2227](#)

European class: [A47G19/22B6](#) [B65D51/00](#) [L65D203/12](#)

US class: [215/365](#) [215/387](#) [215/387S](#) [220/703](#) [220/703S](#) [426/106](#) [426/112](#) [426/115](#) [426/117](#) [426/131](#)
[426/132](#) [426/132P](#) [426/2](#)

[Classification Explorer](#)

Cited documents: US7005152 BB, US6468258 BA, US6440449 BA, US6221416 BA, US6165523 A, US6112749 A, US6102224 A, US6045833 A, US5932262 A, US5885640 A, US5707696 A, US5707353 A, US5688545 A, US5640931 A, US5635229 A, US5542557 A, US5529179 A, US5431276 A, US5426141 A, US5297732 A, US5249676 A, US5236415 A, US5211973 A, US5085335 A, US5085330 A, US5076425 A, US5064698 A, US5018974 A, US4990345 A, US4988546 A, US4921713 A, US4720423 A, US4717017 A, US4687203 A, US4540721 A, US4513014 A, US4051159 A, US3871334 A, US3804796 A, US3746198 A, US3743520 A, US3730737 A, US3717476 A, US3688985 A, US3615595 A, US3603454 A, US3599859 A, US3567119 A, US3463361 A, US3413128 A, US3043464 A, US2836321 A, US2357258 A, US2169055 A, US2004028779 AA, US1603320 A, JP63265926 A2, JP59155451 A2, JP3289452 A2, JP2000085777 A2, GB1558960 A, EP0001460 A1,

Forward Citations: WO10027969, WO07133438, WO07074235, WO07052227, WO07052227, USD784084, US9809367, US9801969, US9561899, US9409659, US9193520, US9108763, US8875916, US8579134, US8474637, US8440023, US8333289, US7879747, US7214397, US7014808, US7005152, US6565899, US6541052, US6294209, US2014190971, US2014166680, US2013302477, US2013043245, US2012175016, US2011230587, US2011083677, US2010323134, US2010104715, US2010055245, US2010055233, US2009266787, US2009258118, US2009053388, US2008241541, US2008149585, US2008038445, US2008014326, US2007262165, US2007142795, US2006222743, US2006183243, US2006042551, US2006040019, US2005233287, US2005194341, US2004109932, US2004028779, US2004018293, US2004018278, US2003203075, US2003168772, US2003129757, US2002190023, GB2435468, GB2435468, GB2409448, GB2409448, EP1466833, DE102009020524,

Abstract:

Source: US2002190023A A device and method for adding the perception of flavoring to a product that is consumed from a receptacle. The device is a cover for a receptacle, wherein a person can drink from a receptacle through the structure of the cover. At least a portion of the receptacle cover is scented with a desired fragrance. Furthermore, the scented portion of the receptacle cover enters the mouth when a person is drinking through the receptacle cover. As the scented portion of the receptacle cover is taken within the mouth, the receptacle cover scents the air contained within the mouth. By scenting the air inside the mouth, the nose is saturated by the desired fragrance and a more effective olfactory sense deception is obtained.

0) US1863796A – CLOSURE FOR BOTTLES, JARS, AND OTHER CONTAINERS...

131) Family number: 30978570 (US1863796A)

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Title: CLOSURE FOR BOTTLES, JARS, AND OTHER CONTAINERS

Priority: GB19290009652 19290326

Family:	Publication number	Publication date	Application number	Application date
	BE368938 A	00000000		00000000
	DE546047 A	19320309		19300327
	FR692725 A	19301110		19300325
	GB327559 A	19300410	GB19290009652	19290326
	NL25183 C	00000000		00000000
	US1863796 A	19320621	US19300439121	19300326

Probable Assignee: HERBERT DAVID JACKSON

Assignee(s):^(std): DAVID JACKSON HERBERT ; FRANK WHITE ; HERBERT DAVID JACKSON

Inventor(s):^(std): DAVID JACKSON HERBERT ; FRANK WHITE ; JACKSON HERBERT DAVID ; WHITE FRANK

International class
^(IPC 8-9): [B65D41/36 F16H55/54](#) (Advanced/Invention);
[B65D41/34 F16H55/32](#) (Core/Invention)

International class
^(IPC 1-7): [B65D41/06 B65D41/36 B65D55/00](#)

CPC: [B65D41/36 F16H55/54](#)

European class: [B65D41/36 F16H55/54](#)

US class: [215/252](#)

[Classification Explorer](#)

Forward Citations: WO17098565, US6000568, US5988412, US3199702, US3165220, US2839210, US2695111,

Abstract:

Source: GB327559A Sealing devices for stoppers; cap stoppers, bayonet-joint; making stoppers.—Secured to the flange of a screw, bayonet-joint, and c. cap a is a separate resilient tongue member d which projects through an opening b in the flange to engage a stop j provided on the neck of a bottle, jar, and c., or on a sleeve secured on the neck, any rotation of the cap towards removal causing the tongue to be broken off or destroyed. The cap, with the tongue d secured to it by punching the metal of the cap through an aperture e in the tongue, is placed over the neck of the bottle with the end of the tongue engaging the stop j and projections l are then pressed into the flange beneath a shoulder h to secure the cap detachably to the neck whilst pressure is applied to the top of the cap. Alternatively, a cap with preformed projections may be used. Instead of moulding bayonet-joint and c. projections on the neck, the neck may be surrounded by a sleeve secured against rotation and provided with a stop and threads or bayonet slots in its surface, the cap being applied to the sleeve before the sleeve is applied to the bottle, and the lower edge of the sleeve, being turned beneath the lip of the bottle after the associated cap and sleeve has been slipped on the bottle neck.

132) Family number: 11814443 (WO0056614A1)

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Title: CORK REMOVAL APPARATUS**Priority:** WO1999US06302 19990322

Family:	Publication number	Publication date	Application number	Application date
	AU199934526 A1	20001009	AU19990034526	19990322
	AU199934526 A5	20001009	AU19990034526	19990322
	WO0056614 A1	20000928	WO1999US06302	19990322

Probable Assignee: GARDNER WILLIAM A**Assignee(s):**^(std) GARDNER WILLIAM A ; WILLIAM A GARDNER**Inventor(s):**^(std) GARDNER WILLIAM A**Inventor(s):** WILLIAM A GARDNER

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

International class
^{(IPC 8-9):} [B65D39/16 B67B7/06](#) (Advanced/Invention);
[B65D39/00 B67B7/00](#) (Core/Invention)

International class
^{(IPC 1-7):} [B65D39/16 B67B7/06](#)

CPC: [B65D39/16 B67B7/06](#)**European class:** [B65D39/16 B67B7/06](#)[Classification Explorer](#)

Cited documents: US746799 A, US1416616 A, US1204712 A, GB128179 A, FR620803 A, FR2766163 A1, FR2280 E, DE297516 A, DE197203 A,

Forward Citations: ES2552849,**Abstract:**

An apparatus for removing a cork (14) from a bottle in which an anchor (56) is embedded in the cork (14) and a cork-pulling handle (110) is provided for engaging the anchor for removal of the cork. The cork-pulling handle can be connected to the anchor by any of several means, and can be stored with the bottle as an integral part of the bottle/capsule/label package or provided separately.

133) Family number: 32007569 (EP1679268A1)

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Title: NON REFILLABLE STOPPER WITH DOUBLE SECURITY DEVICE**Priority:** ES20040003078 20041224**Family:**

Publication number	Publication date	Application number	Application date
AR052820 AA	20070404	AR2005P105348	20051220
AT445547 E	20091015	AT20050380267T	20051216
BRPI0505629 A	20060919	BR2005PI05629	20051223
CN1792733 A	20060628	CN200510022975	20051222
CO5710200 A1	20061229	CO20050126454	20051215
DE602005017114 D1	20091126	DE200560017114T	20051216
EP1679268 A1	20060712	EP20050380267	20051216
EP1679268 B1	20091014	EP20050380267	20051216
ES2229959 AA	20050416	ES20040003078	20041224
ES2229959 BA	20060216	ES20040003078	20041224
ES2334363 T3	20100309	ES20050380267T	20051216
MXPA05014146 A1	20060623	MX2005PA14146	20051221
RU2005141807 A	20070720	RU20050141807	20051223
RU2377170 C2	20091227	RU20050141807	20051223

Probable Assignee: PLASTIVIT SA**Assignee(s):**^(std): PLASTIVIT S A ; PLASTIVIT SA**Inventor(s):**^(std): LOPEZ EDUARDO MARTIN ; MARTIN LOPES EHDUARDO ; MARTIN LOPEZ EDUARDO ; EDUARDO MARTIN LOPEZ**Agent(s):** HUMBERTO RUBIO CAMACHO; CURELL AGUILA MARCELINO**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 MK NL PL PT RO SE SI SK TR YU

International class
 (IPC 8-9): [B65D39/04](#) [B65D41/02](#) [B65D41/34](#) [B65D41/62](#) [B65D49/00](#) [B65D49/02](#) [B65D49/04](#) [B65D50/06](#) [B65D51/18](#) [B65D55/02](#) [B65D55/08](#) [B67B1/00](#) (Advanced/Invention);
[B65D39/00](#) [B65D41/00](#) [B65D41/02](#) [B65D41/34](#) [B65D49/00](#) [B65D55/02](#) [B67B1/00](#) (Core/Invention)

International class
 (IPC 1-7): [B65D39/04](#) [B65D41/34](#) [B65D47/02](#) [B65D49/00](#) [B65D55/08](#) [B65D55/08](#)

CPC: [B65D2101/0084](#) [B65D41/3409](#) [B65D41/3423](#) [B65D41/3428](#) [B65D49/04](#) [B65D41/62](#)**European class:** [B65D41/34A1](#) [B65D41/34C](#) [B65D41/34C1](#) [B65D41/62](#) [B65D49/04](#)[Classification Explorer](#)**Cited documents:** WO02083518 A1, WO0007898 A1, US4572387 A, GB2390086 A1, EP1481908 A1, EP0807585 A1,**Forward Citations:** WO14128222, WO10044695, WO08121086, EP2862811, EP2769927, CN104583089, CN104583089, CN102211687,**Abstract:**

Source: EP1679268A1 Non refillable stopper with double security device. The non refillable stopper is characterised in that a special tubular closing element forming a tubular body which is connected to and surrounds the upper portion of the bottle neck has an upper projecting flange and a lower projecting flange respectively which are pressed inwards by the action of the external laminar covering, which may be displaced vertically during the stopper opening operation, so that said flanges, in view of their compressed disposition, thus protrude resiliently outwards when they are released by the laminar covering, and prevent said external laminar covering from descending again, said flanges being permanently visible and demonstrating the prior opening of the bottle stopper.

134) Family number: 21056640 (FR1378912A)

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Title: CAPSULE DE BOUCHAGE DECHIRABLE INVOLABLE CAPSULE CLOSING TEARABLE INVOLABLE (Machine translation)

Priority: FR19630946126 19630830 FR19640980600 19640703

Family:	Publication number	Publication date	Application number	Application date
	<u>FR1378912 A</u>	19641120	FR19630946126	19630830
	<u>FR86114 E</u>	19651217	FR19640980600	19640703

Probable Assignee: BORDELAISE DE MATIERES PLASTIQ

Assignee(s):^(std): BORDELAISE DE MATIERES PLASTIQ

Assignee(s): BORDELAISE DE MATIERES PLASTIQUES SOC ; SOCIETE BORDELAISE DE MATIERES PLASTIQUES

Inventor(s):^(std): COURNUT RENE

International class
(IPC 8-9): B65D39/16 B65D41/32 B65D41/48 B65D41/52 B65D41/60 B65D47/06 B65D47/12 B65D47/28 (Advanced/Invention);
B65D39/00 B65D41/32 B65D47/04 B65D47/06 B65D47/12 (Core/Invention)

International class
(IPC 1-7): B65D41/58

CPC: B65D39/16 B65D41/32 B65D41/325 B65D41/485 B65D41/52 B65D41/60 B65D47/061 B65D47/121 B65D47/128 B65D47/283 B65D2101/0046

European class: B65D39/16 B65D41/32 B65D41/32B B65D41/48B B65D41/52 B65D41/60 B65D47/06A B65D47/12A B65D47/12D1 B65D47/28B L65D101/00A3D

[Classification Explorer](#)

Forward Citations: WO13072361, US5605241, US4076142, FR2982849, FR2577524, FR2539212, EP1205397, EP0141611, EP0141611,

Abstract:

Source: FR1378912A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. d'extremite CO relativement tres saillant et un etrangement E tres net dans lequel la jupe, qui presente une certaine elasticite, peut se loger lorsque, au cours du debouchage, elle est repoussee versJe bas.

Machine translation: (Claim 1) CAUTION ** ** start of CLMS field may contain end of DESC **. Extremity of CO relatively very prominent and a very clear choke E in which the skirt, which has some elasticity, can housing when, during the unblocking, it is pushed down I .

135) Family number: 28304508 (US2002153386A)

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Title: DISCHARGING CONTAINER WITH A FILTER AND A BOTTLE STOPPER FOR USE IN THE CONTAINER**Priority:** JP20000276130 20000912 WO2001JP07896 20010912

Family:	Publication number	Publication date	Application number	Application date
	<u>AT448153 E</u>	20091115	AT20010967673T	20010912
	<u>DE60140464 D1</u>	20091224	DE20016040464	20010912
	<u>EP1319606 A1</u>	20030618	EP20010967673	20010912
	<u>EP1319606 A4</u>	20060104	EP20010967673	20010912
	<u>EP1319606 B1</u>	20091111	EP20010967673	20010912
	<u>ES2335194 T3</u>	20100323	ES20010967673T	20010912
	<u>JP2002080055 A2</u>	20020319	JP20000276130	20000912
	<u>JP4580524 B2</u>	20101117	JP20000276130	20000912
	<u>US2002153386 AA</u>	20021024	US20020111793	20020426
	<u>US6708850 BB</u>	20040323	US20020111793	20020426
	<u>WO0222458 A1</u>	20020321	WO2001JP07896	20010912

Probable Assignee: NIHON TENGANYAKU KENKYUSYO CO LTD**Assignee(s):^(std):** HAMAMOTO KEIJI ; NIHON TENGANYAKU CO LTD ; NIHON TENGANYAKU KENKYUSHO CO ; NIHON TENGANYAKU KENKYUSYO CO ; TAISEI KAKO CO ; NIPPON TENGANYAKU KENKYUSHO KK ; SHIRAISHI YASUYUKI ; UETAKE YORIHISA**Assignee(s):** NIHON TENGANYAKU KENKYUSYO CO LTD ; TAISEI KAKO CO LTD ; NIHON TENGANYAKU KENKYUSHO CO LTD ; NIHON TENGANYAKU CO**Inventor(s):^(std):** UETAKE YORIHISA ; SHIRAISHI YASUYUKI ; HAMAMOTO KEIJI**Inventor(s):** HAMAMOTO KEIJI C O TAISEI KAKO CO LTD ; SHIRAISHI YASUYUKI C O TAISEI KAKO CO LTD ; UETAKE YORIHISA C O NIHON TENGANYAKU KENKYUSYO CO**Agent(s):** PAUL DIETER ALFRED**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR US

International class
 (IPC 8-9): A61F9/00 A61J1/05 A61J1/14 B65D47/18 B65D47/20 B65D51/16
B65D83/00 (Advanced/Invention);
B65D51/16 (Advanced/Non-invention);
A61F9/00 A61J1/05 A61J1/14 B65D47/04 B65D47/06 B65D51/16 B65D83/00 (Core/Invention)

International class
 (IPC 1-7): A61J1/05 B65D47/18 B65D47/20 B65D51/16 B65D83/00 B67B7/00 B67D5/58 G01F11/00

CPC: B65D83/0055 A61F9/0008 B65D47/2018 B65D51/1616 A61J1/145 A61J1/1468**European class:** A61F9/00B B65D47/20E B65D51/16C2 B65D83/00B K61J1/14F2 K61J1/14M**US class:** 222/1 222/105 222/189.06 222/195 222/195S 222/1P 222/213 222/481.5[Classification Explorer](#)

Cited documents: WO9923006 A1, WO99023006, US6364163 BA, US6336571 BA, US6168581 BA, US6142345 A, US5863562 A, US5747083 A, US5687882 A, US5611464 A, US5490938 A, US5431310 A, US5373972 A, US5373967 A, US5373967, US5366115 A, US5082150 A, US5033647 A, US5033647, US5025957 A, US4776495 A, US4760937 A, US4646945 A, US4156505 A, US4002168 A, US3872866 A, US3709437 A, JP9175566 A2, JP9175566, JP8322911 A2, JP8322911, JP6086341, JP60086341 U1, JP60086341 U, JP60086341 U, JP50093496 U1, JP50093496 U, JP50093496 U, JP44155680, JP44015680 Y1, JP44015680 Y1,

Forward Citations: WO13168244, WO13168243, WO13065599, WO09147952, WO09063519, WO07111256, WO06018489, WO05044689, WO04064756, WO04064756, WO04011345, WO03086945, WO03086945, WO03084460, US9789988, US9788993, US9669973, US9422100,

US9346600, US9315313, US9308150, US9174777, US8960502, US8845602, US8839991, US8490839, US8403176, US8056766, US8007480, US7971755, US7971753, US7967983, US7959036, US7802703, US7762433, US7527613, US7293674, US7225949, US7059501, US6968976, US6854623, US6688495, US2016311588, US2016145015, US2015122845, US2014226922, US2014190992, US2014151406, US2014054330, US2012312839, US2012310185, US2011144598, US2010252578, US2010084397, US2010062399, US2009318883, US2009223883, US2009200336, US2009152302, US2008302829, US2008302828, US2008164289, US2008141454, US2008067194, US2007267435, US2007262096, US2007235472, US2007093765, US2007090127, US2007090044, US2006081726, US2005150911, US2005139611, JP6127062, JP6100183, JP5883626, JP5793807, JP5757560, JP5710226, JP5695544, JP5224915, JP5066296, JP4898423, JP4587824, JP4559059, JP4405775, JP4055185, JP2015504393, JP2015155324, JP2013528539, JP2013249099, JP2013112370, JP2013095455, JP2013094407, JP2012180103, JP2012110591, JP2010082916, JP2009527421, JP2009291326, JP2009161194, JP2008503410, JP2008094780, JP2007297100, JP2006519178, JP2006206161, JP2005145470, JP2005111094, JP2003276719, FR2873358, EP2295022, EP2003069, EP1845405, EP1724203, EP1375374, EP1291288, CN105800050, CN103917457, CN103917457, CN103086087, CN102098999, AU2011212148,

Abstract:

Source: US2002153386A The present invention provides a discharging container whose main part is a squeeze-bottle adapted for use as eyedroppers and transparent to such a degree as required. This container has to perfectly shut off ambient air and bacteria not to flowing into a liquid content of the container so as to keep it sterilized even after unsealed for use. The discharging container has a laminated bottle 2, and a stopper 3 attached to a finish 2a of the laminated bottle, the bottle being composed of an outer layer 21 and an inner layer 22 delaminating from the outer layer 21. A vent hole 4 is formed in the outer layer so as to introduce ambient air in between the outer and inner layers 21, 22. A discharging passage 10 is formed in the stopper 3 so as to exude through it a liquid content inside the inner layer 22, and the stopper further has a check valve 8 and a filter 7 disposed on the downstream side of the valve.

0) US1693117A – CLOSURE FOR CONTAINERS

136) Family number: 20624492 (US1693117A)

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Title: CLOSURE FOR CONTAINERS

Priority: US19270229710 19271029

Family:	Publication number	Publication date	Application number	Application date
	<u>US1693117 A</u>	19281127	US19270229710	19271029

Probable Assignee: WILLIAM ALOYISOUS QUINN

Assignee(s):^(std): WILLIAM ALOYISOUS QUINN

Inventor(s):^(std): MCDONNELL ANTHONY F

International class
(IPC 8-9): B65D41/04 (Advanced/Invention);
B65D41/04 (Core/Invention)

International class
(IPC 1-7): B65D41/14

CPC: B65D41/04

European class: B65D41/04

US class: 215/295 215/324 215/328

[Classification Explorer](#)

Forward Citations: WO9008068, USRE36334, US9592936, US9533800, US6006933, US5263600, US5215203, US4782969, US2015034586,

Abstract:

Source: US1693117A 1 A bottle or other container having its neck formed with shoulders inclineil periphcmilly and up\\nrcly toward the mouth of the container and with a part inclined outwardly and upwardly toward the mouth, in combination with 21 cap formed of paper having 11 plinnt metallic binding around its rim, said metallic bimling being adapted to be crimped er contracted around the neck of the container zind being formed with internal projections to engage the inclined shoulders on the neck of the container, so tliat. when the cap is turned, the inclined shoulders on the neck of the container will lift the cup off the neck and the upwardly and outwardly inclined part of the neck will expand the rim and ease the lifting of the cap. ` In testimony whereof I etlix my signature,

137) Family number: 841114 (US3407954A)

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Title: Container and closure therefor**Priority:** US19660573274 19660818

Family:	Publication number	Publication date	Application number	Application date
	<u>US3407954 A</u>	19681029	US19660573274	19660818

Probable Assignee: ALEXANDER MILLIS**Assignee(s):** ALEXANDER MILLIS**Inventor(s):**^(std) ALEXANDER MILLIS ; MILLIS ALEXANDER

International class B65D55/14 (Advanced/Invention);
 (IPC 8-9): B65D55/02 (Core/Invention)

International class B65D55/12
 (IPC 1-7):

CPC: B65D55/145**European class:** B65D55/14B**US class:** 215/206 215/43 215/44 215/46 215/9 D9/436[Classification Explorer](#)**Cited documents:** US841668 A, US3129834 A, US2987207 A, US1758696 A, US1609453 A, US1351496 A, CA721125 A,

Forward Citations: USD706133, USD664350, US9555942, US8517193, US8328031, US8020415, US7252204, US7175038, US6068149, US5971215, US5884679, US5829641, US5351845, US5317796, US4991729, US4779747, US3850324, US3669296, US3514003, US2011174758, US2010307208, US2009277865,

Abstract:

Source: US3407954A ABSTRACT OF THE DISCLOSURE The closure cap includes rotatable annular members having internal ridges and grooves. The ridges and grooves of the cap coact with complementary structures on the bottle or container locking the cap thereon for all orientation of the annular members except one which permits the cap to be removed. Fig. 4 is a longitudinal sectional view of the bottle cap; FIGS. 5, 6 and 7 are side elevational views, partly in section, showing the locations of the different parts of 5 the cap and bottle of the present invention when the bottle is closed and open; Fig. 8 is a transverse sectional view of the cap and bottle taken on the line 8—8 shown in Fig. 5; Fig. 9 is a transverse sectional view of the cap and

138) Family number: 48239292 (US2011126939A)

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Title: HIGH FLOW STOPPER WITH VACUUM AND DATE INDICATORS
Priority: EP20100805120 20100730 US20090230256P 20090731 US20100847617 20100730
 WO2010US43937 20100730

Family:	Publication number	Publication date	Application number	Application date
	AU2010278793 AA	20110203	AU20100278793	20100730
	AU2010278793 BB	20160728	AU20100278793	20100730
	CN102656096 A	20120905	CN201080043975	20100730
	CN102656096 B	20151216	CN201080043975	20100730
	EP2459462 A1	20120606	EP20100805120	20100730
	EP2459462 A4	20130904	EP20100805120	20100730
	EP2459462 B1	20160907	EP20100805120	20100730
	ES2604378 T3	20170306	ES20100805120T	20100730
	US2011126939 AA	20110602	US20100847617	20100730
	US8640746 BB	20140204	US20100847617	20100730
	WO11014790 A1	20110203	WO2010US43937	20100730

Probable Assignee: LUIS ARMANDO**Assignee(s):**^(std) ARMANDO LUIS ; LUIS ARMANDO**Inventor(s):**^(std) ARMANDO LUIS ; LUIS ARMANDO**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; DUNCAN GARRETH ANDREW; D YOUNG AND CO LLP; ISERN JORGE; TEDD; POLSINELLI PC; REIBMAN ANDREW L 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 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 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**International class** [B65B31/06](#) [B65D51/16](#) (Advanced/Invention)
(IPC 8-9):**CPC:** [C12H1/16](#) [B65B31/047](#)**European class:** [B65B31/04E1](#) [C12H1/16](#)**US class:** [141/65](#) [141/65P](#) [141/98](#) [141/98S](#) [215/230](#) [215/260](#)[Classification Explorer](#)**Cited documents:** WO08002650 A2, US7108023 BB, US7048016 BB, US6976669 BB, US6886605 BB, US6651834 BB, US5803282 A, US5215129 A, US4989745 A, US4911314 A, US4763803 A, US4684033 A, US4475576 A, US2008272085 AA, US2008000792 AA, US2007199615 AA, US2007199612 AA, US2006138068 AA, US2004200863 AA, US2003047531 AA, CN201198387 Y, CN101434321 A,**Forward Citations:** WO14155314, USRE46506, USD767386, US9802805, US9656847, US8919610, US2017073140, US2015217912, US2014263453, US2014075886, US2011220608, US2011220606, ITRM20130183,**Abstract:**

Source: US2011126939A Devices and methods for the sealing of a container are disclosed. The devices and methods include stoppers that allow for removal of air from the container with a vacuum source. Various embodiments comprise a high-volume valve allowing for expeditious evacuation of the air. The stopper may also comprise a low vacuum indicator to indicate to the user whether the vacuum internal to the container is at or above a desired amount. The stopper may also comprise other indicators, such as a day of the week or month indicator. A rotating bezel may be used to identify temporal or other types of events, such as when the container was first opened.

139) Family number: 1433693 (GB1409348A)

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Title: CLOSURE DEVICES FOR FLASKS BOTTLES VIALS AND LIKE CONTAINERS**Priority:** FR19720026504 19720718

Family:	Publication number	Publication date	Application number	Application date
	CH566239 A	19750915	CH19730009949	19730709
	DE2335880 A1	19740131	DE19732335880	19730714
	FR2192954 A1	19740215	FR19720026504	19720718
	FR2192954 B1	19760806	FR19720026504	19720718
	GB1409348 A	19751008	GB19730034103	19730717
	IT994972 A	19751020	IT19730026715	19730718
	JP49093187 A2	19740905	JP19730082375	19730718
	NL7309991 A	19740122	NL19730009991	19730718

Probable Assignee: ASTRA PLASTIQUE**Assignee(s):^(std):** ASTRA PLASTIQUE ; ASTRA PLASTIQUE SAINT GEORGES**Assignee(s):** ASTRA PLASTIQUE SAINT GEORGES DE RENEINS ; ASTRA PLASTIQUE FR ; ASTRA PLASTIQUE SA**Inventor(s):^(std):** BEREZIAT ANDRE**International class**
(IPC 8-9): [B65D41/34](#) (Advanced/Invention);
[B65D41/34](#) (Core/Invention)**International class**
(IPC 1-7): [B65D39/00](#) [B65D41/00](#) [B65D41/20](#) [B65D41/34](#) [B65D47/00](#) [B65D51/18](#) [B65D51/20](#)
[B65D53/04](#) [B65D55/06](#) [B65D55/08](#) [B65D55/12](#)**CPC:** [B65D41/3409](#) [B65D2101/0038](#) [B65D2101/0076](#)**European class:** [B65D41/34A1](#) [L65D101/00A3C](#) [L65D101/00A5](#)[Classification Explorer](#)**Cited documents:** US3650428 A, US3637102 A, US2124638 A,**Forward Citations:** USD509738, US5954214, GB2200100, FR2616757, FR2565558, FR2564803, FR2541241, EP0296060, EP0296060, EP0251768, EP0251768, EP0050490, DE9210306, DE3337060, DE3206245,**Abstract:**

Source: GB1409348A 1409348 Closure devices for vials and the like SOC ANON ASTRA PLASTIQUE 17 July 1973 [18 July 1972] 34103/73 Heading B8T A closure consists of a disc 2, a retaining member 3 and a cap 4, and is especially designed to fit a bottle having external projections 11 upon an annular ridge 10 which is situated beneath an external left-hand screw-threaded portion 12. The retaining member 3 has an inwardly projecting flange 30, an internal lefthand threaded portion 31, an external righthand threaded portion 32, an annular skirt 33 with internal and external projections 34 and 35 respectively, and a second skirt 36. The cap 4 has an internal central boss 40, an internal righthand threaded portion 41 and a skirt 43, frangibly fixed by stalks 42 and having internal projections 44 and a pull tab 46. Disc 2 is placed over the bottle mouth, member 3 is screwed on to the neck of the bottle until flange 30 seals the disc 2 on to the bottle and the projections 34 and 11 engage. The cap 4 is then screwed on to the member 3 until the projections 35 and 44 engage so preventing illicit opening of the bottle. The directions of the screw-threads 12, 31 and 32, 41 may be reversed.

140) Family number: 18618108 (GB307255A)

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Title: Improvements in or relating to closures for containers**Priority:** GB19280015519 19280526

Publication number	Publication date	Application number	Application date
<u>GB307255 A</u>	19290307	GB19280015519	19280526

Probable Assignee: ANTHONY FRANCIS MCDONNELL**Assignee(s):^(std):** ANTHONY FRANCIS MCDONNELL

International class B65D1/02 B65D41/12 (Advanced/Invention);
 (IPC 8-9): B65D1/02 B65D41/02 (Core/Invention)

International class B65D41/12
 (IPC 1-7):

CPC: B65D1/0246 B65D41/12**European class:** B65D1/02D1B B65D41/12[Classification Explorer](#)**Abstract:**

Source: GB307255A Crown corks.—A bottle neck is formed with peripheral inclined shoulders 11 which engage inwardly extending projections 15 and lift the cap when it is turned relative to the bottle. The radial depth of the shoulders increases as they ascend and/or the neck from which the shoulders project flares outwardly towards the mouth of the bottle. The cap is compressed on to the neck in closing the bottle. The shoulders 11 are the upper sides of raised beads the lower sides of which may overlap and help to secure the cap. The cap is formed with inclined transverse depressions 17 in the rim thereof to accommodate the beads, and vertical depressions 17 <1> to ease the action thereof on the shoulders of the neck. In a modification the inclined shoulders are arranged in converging pairs so that the cap can be turned off in either direction.

0) US2788161A – DRIPLESS POURING DEVICE

141) Family number: 22719087 (US2788161A)

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Title: DRIPLESS POURING DEVICE

Priority: US19550519562 19550701

Family:	Publication number	Publication date	Application number	Application date
	US2788161 A	19570409	US19550519562	19550701

Probable Assignee: PREFERRED PRODUCT FEATURES INC

Assignee(s):^(std): PREFERRED PRODUCT FEATURES INC

Inventor(s):^(std): JOHN KEMPER ROBERT

Inventor(s): KEMPER ROBERT JOHN

International class
(IPC 8-9): [B65D23/06](#) (Advanced/Invention);
[B65D23/00](#) (Core/Invention)

CPC: [B65D23/06](#)

European class: [B65D23/06](#)

US class: [215/41 215/44 222/571](#)

[Classification Explorer](#)

Cited documents: US2704174 A, US2549225 A, US1416309 A,

Forward Citations: WO8907553, WO04026699, WO04026699, WO0198156, US9731858, US6997336, US6758357, US6609639, US4493427, US4429811, US3881622, US2015225106, US2013220964, US2009212060, US2004104195, FR2822806,

Abstract:

Source: US2788161A (Claim 1) 1. A dripless pouring bottle comprising a substantially uniform annular vertically extending bottle neck adaptin.– said bottle for closure, by a sealing member to 3o be carried concentrically with respect to said neck, a pouring surface formed at the upper end of said neck, said surface comprising a first relatively large concavity formiilg a part of the inner surface of said neck adjacent the pouring lip of the neck, and a second relatively sma.11 coilcavity provided about the pouring lip of the neck and between the lip and upper end of the first concavity said second coircavity providing an upward and outward flare from the first concavity.

Title: DEVICE FOR TREATING AND PURIFYING A LIQUID PRODUCT AND THE UNITS OF SAID DEVICE

Priority: RU20080121572 20080529 WO2009RU00256 20090522

Family:	Publication number	Publication date	Application number	Application date
	EA018124 B1	20130530	EA20100001341	20090522
	EA201001341 A1	20110429	EA20100001341	20090522
	EP2316916 A1	20110504	EP20090755119	20090522
	RU2381268 C1	20100210	RU20080121572	20080529
	WO09145670 A1	20091203	WO2009RU00256	20090522

Probable Assignee: OOO EVROSTANDART

Assignee(s):^(std) KISTEREV VALERIY EVGENYEVICH ; LIABILITY COMPANY LTD ; OBSHESTVO S OGRANICHENNOI OTV ; OBSHESTVO S OGRANICHENNOI OTVETSTVENNOSTIYU EUROSTANDART ; OOO EVROSTANDART ; ZHERDEV PAVEL DMITRIEVICH

Assignee(s): OBSHESTVO S OGRANICHENNOJ OTVETSTVENNOST JU EVROSTANDART

Inventor(s):^(std) KISTEREV VALERIY EVGEN EVICH ; KISTEREV VALERIY EVGENYEVICH ; ZHERDEV PAVEL DMITRIEVICH

Inventor(s): KISTEREV VALERIY EVGEN'EVICH

Agent(s): SONN AND PARTNER PATENTANWALTE; LOMSKIY SERGEY MIHAYLOVICH

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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): [B01D35/02](#) [B01D35/16](#) [B65D47/34](#) [C12H1/04](#) [C12H1/07](#) [G09F23/04](#) [G09F23/06](#) [G09F25/00](#) (Advanced/Invention); [B01D35/00](#) [B01D35/16](#) [B65D47/34](#) [C12H1/00](#) [G09F23/00](#) [G09F25/00](#) (Core/Invention)

CPC: [C12G3/04](#) [C12G3/06](#) [C12H1/0408](#) [C12H1/0424](#) [C12H1/063](#) [G09F23/04](#) [G09F23/06](#) [G09F25/00](#) [G09F27/00](#)

European class: [C12G3/04](#) [C12G3/06](#) [C12H1/04B](#) [C12H1/04C4](#) [C12H1/06C](#) [G09F23/04](#) [G09F23/06](#) [G09F25/00](#) [G09F27/00](#)

[Classification Explorer](#)

Cited documents: US6136188 A, US2004050875 AA, RU35462 U1, RU2266253 C2, RU2164888 C1, RU2131759 C1, JP9122564 A2, JP2003267465 A2, BE902997 A,

Forward Citations: WO12141612, WO12141612,

Abstract:

The inventions relate to the food industry. The treatment and purification of a liquid product, including vodka, are carried out by passing said product through a mixture of sorbent components enclosed between filtering materials. Each portion of the product poured from a bottle into a drinking vessel, prior to be consumed, is treated and purified by the consumer himself. The treatment is carried out by pressing product out from a container at a maximum rate through, arranged in a cartridge, a coarse filtering material, sorbents and a fine filtering material by means of the predetermined excessive air pressure which is produced in the inner cavity of the container when necessary by an air pump which is provided with an electric motor and is located outside the bottle. Mineral, flavouring and/or other additives accommodated in the cartridge at exit from the device make it possible to obtain a product different from that which is contained in the container. Moreover, the device can be provided with units producing luminous and sound effects for advertising purposes.

143) Family number: 4655843 (US4497758A)

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Title: Method of forming bottle neck finish for accepting a snap-in closure**Priority:** US19810259205 19810430 US19830505037 19830616

Family:	Publication number	Publication date	Application number	Application date
	<u>US4497758 A</u>	19850205	US19830505037	19830616

Probable Assignee: CONTINENTAL GROUP**Assignee(s):^(std):** CONTINENTAL GROUP**Assignee(s):** CONTINENTAL PET TECHNOLOGIES INC ; CONTINENTAL PET TECHNOLOGIES INC A DELAWARE CORP ; THE CONTINENTAL GROUP INC**Inventor(s):^(std):** CLARK RICHARD E**International class** B65D39/00 (Advanced/Invention)
(IPC 8-9):**International class** B06B3/00
(IPC 1-7):**CPC:** B65D39/0023 B65D2539/003**European class:** B65D39/00F3 L65D339/02 L65D539/00Y2**US class:** 264/23 264/320 264/322 264/445 264/454[Classification Explorer](#)**Cited documents:** US4356926 A, US3773205 A, US3171458 A, IT554079 A,**Forward Citations:** WO8806901, WO09118090, US9527239, US8734709, US8506285, US8257636, US8037728, US7637733, US7435073, US4896415, US2011000926, US2010252952, US2010000959, US2007126152, US2007017089, US2006127618, US2006119004, US2006033230, RU2468975,**Abstract:**

Source: US4497758A This relates to the provision of a snap-in closure for plastic beverage bottles. The neck of a conventional bottle is foreshortened through the elimination of the customary closure threads and the extreme end of the neck is reformed by way of an ultrasonic tool to define a radially inwardly turned sealing flange having a pour opening of a preselected controlled diameter therethrough. A snap-in closure is provided with the closure including a plug with a radially outwardly directed flange, the plug and flange being snapable through the pour opening in the sealing flange and the closure flange and thereafter engaging the sealing flange to seal the bottle. This abstract forms no part of the specification of this application and is not to be construed as limiting the claims of the application.

144) Family number: 47841601 (US2012085727A)

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Title: COLLAR FOR HIGH-PRESSURE BOTTLES AND PROCESS FOR ITS CONSTRUCTION**Priority:** WO2009EP04104 20090608 ZA20110008712 20111128**Family:**

Publication number	Publication date	Application number	Application date
AU2009347608 AA	20101216	AU20090347608	20090608
CA2764615 AA	20111206	CA20092764615	20090608
CN102459989 A	20120516	CN200980160157	20090608
EP2440834 A1	20120418	EP20090776695	20090608
IN02595MN2011 A	20120427	IN2011MN02595	20111202
JP2012529601 T2	20121122	JP20120514352T	20090608
RU2011154177 A	20130720	RU20110154177	20090608
RU2507437 C2	20140220	RU20110154177	20090608
US2012085727 AA	20120412	US20090322557	20090608
WO10142303 A1	20101216	WO2009EP04104	20090608
WO10142303 A8	20120126	WO2009EP04104	20090608
ZA201108712 A	20120725	ZA20110008712	20111128

Probable Assignee: CTS SPA**Assignee(s):^(std):** C T S S P A ; CTS S P A ; FRATTI GIOVANNI ; N G F INZENIERING D O O ; K T S S P A**Assignee(s):** KTSSPA ; CTSSPA ; NGF INZENIERING DOO ; CTS SPA**Inventor(s):^(std):** FRATTI DZHOVANNI ; FRATTI GIOVANNI ; GIOVANNI FRATTI**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; CRAGNOLINI SERGIO**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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**International class** [B23P17/04 B65D23/12 F16J12/00 F17C F17C1/06 F17C1/16](#) (Advanced/Invention);
(IPC 8-9): [F17C](#) (Subclass/Invention)**CPC:** [Y10T29/49826 F17C1/16 F17C2201/0109 F17C2203/0604 F17C2203/0619 F17C2203/0639 F17C2203/0646 F17C2203/066 F17C2203/0673 F17C2205/0305 F17C2209/221 F17C2209/227 F17C2221/012 F17C2221/017 F17C2221/033 F17C2223/0123 F17C2223/035 F17C2223/036 F17C2260/01 F17C2260/012 Y02E60/321](#)**European class:** [F17C1/16 R17C201/01A1 R17C203/06A1 R17C203/06A7A2 R17C203/06B1A R17C203/06B1B R17C203/06B2A R17C203/06B2B4 R17C205/03L1 R17C209/22A R17C209/22D R17C221/01C R17C221/01H1 R17C221/03B1 R17C223/01A3 R17C223/03C R17C223/03D R17C260/01 R17C260/01B Y02E60/32B](#)**US class:** [215/386 29/428 29/428S](#)[Classification Explorer](#)**Cited documents:** WO9913263 A1, WO06034439 A2, WO0151844 A2, US6186356 BA, US5938209 A, US5287987 A, US4690295 A, RU2177583 C1, RU2150634 C1, JP8219391 A2, JP5185529 A2, JP2008304038 A2, JP2005265190 A2, JP2000291887 A2, JP11013995 A2, JP10332084 A2, EP0203631 A2, DE2152123 A1,

DE102006057422 B3

Forward Citations:

Abstract:

Source: US2012085727A The present invention concerns a collar (4) for high-pressure bottles (and the process for its implementation), characterized in that it is composed of two elements attachable to each other, which can be integrated in the mass (3) of the container itself, formed of composite material, metal alloy, synthetic material, resins and reinforcement fibers. The internal-extractable-element (4.2) of the nozzle (4) presents in its internal part a hexagonal through hole (9), whereas the upper part presents a thread for fixation of a valve or tap; on the upper external part there is located a thread for coupling with the external element (4.9), whereas on the lower part there is an annular seat for receiving a seal (5) in direct contact with the core (2). A similar seal (5) is provided on the external element (4.9). Between the two elements (4.2) and (4.9)–on the lower part–, the terminal of the core (2) is fixed: the assembly is then enclosed on its exterior in a plurality of wrapping layers made of reinforcement fibers and synthetic resins.

145) Family number: 13076504 (US5632420A)

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Title: Dispensing package**Priority:** US19930148202 19931103 US19950425088 19950419

Family:	Publication number	Publication date	Application number	Application date
	<u>US5632420 A</u>	19970527	US19950425088	19950419

Probable Assignee: OBRIST CLOSURES SWITZERLAND GMBH**Assignee(s):^(std):** ZELLER PLASTIK INC**Assignee(s):** CROWN PACKAGING TECHNOLOGY INC ; CHASE MANHATTAN BANK AS COLLATERAL AGENT ; CHASE MANHATTAN BANK COLLATERAL AGENT AS ; CITICORP NORTH AMERICA INC ; CITICORP NORTH AMERICA INC COLLATERAL AGENT AS ; CROWN CORK AND SEAL TECHNOLOGIES ; CROWN OBRIST GMBH ; OBRIST CLOSURES SWITZERLAND GMBH**Inventor(s):^(std):** CISLIEK RONNY M ; LOHRMAN RICHARD D**International class** B65D47/08 B65D47/20 (Advanced/Invention)
(IPC 8-9):**International class** B65D37/00
(IPC 1-7):**CPC:** B65D47/0838 B65D47/2031**European class:** B65D47/08B4C B65D47/20E2**US class:** 222/212 222/490 222/494[Classification Explorer](#)**Cited documents:** US5271531 A, US5213236 A, US5115950 A, US5071017 A, US5033655 A, US4749108 A, US4728006 A, US1989714 A, GB2098958 A1,**Forward Citations:** WO17082892, WO11031985, WO07015752, WO07015752, WO06083392, WO04099024, WO02096770, USD801827, USD790340, USD786087, USD776535, USD766727, USD761623, USD728378, USD626844, USD615360, USD609572, USD609098, USD609097, USD609092, USD604159, USD597841, USD594336, USD583242, USD581275, USD542132, USD533076, USD531035, USD527636, USD525135, USD486737, USD486065, USD468423, USD464266, USD463216, USD459996, USD458847, USD455655, USD452415, USD452116, USD451809, USD450535, USD448976, USD448242, USD447694, USD446725, USD441292, USD439165, USD438801, USD428816, USD427073, USD427072, USD426464, USD425965, USD424422, USD424167, US9789999, US9675530, US9663285, US9637272, US9636283, US9302813, US9266643, US9114087, US9085396, US9033151, US8978939, US8951947, US8870004, US8777030, US8752705, US8603557, US8579133, US8314054, US8293299, US8281929, US8158566, US8153144, US8132683, US8124573, US8105996, US8104616, US8088721, US8084408, US8084407, US7980391, US7861393, US7731066, US7628297, US7503469, US7398900, US7299952, US7255250, US7152763, US6957924, US6932240, US6910607, US6786363, US6783294, US6689279, US6672487, US6672479, US6631833, US6616016, US6536617, US6488186, US6463611, US6367668, US6213355, US6112951, US6095381, US6089411, US6079594, US6000566, US5971232, US5954237, US5944234, US5934514, US5934512, US5927566, US5924605, US5897033, US5743443, US2016052695, US2014263436, US2013334250, US2013075430, US2011117225, US2011009302, US2010307523, US2010288719, US2009057257, US2009018596, US2008242573, US2008110938, US2008083758, US2007295765, US2007293411, US2007251079, US2007248562, US2007187274, US2007141001, US2007045354, US2007029352, US2007023462, US2006252662, US2006249545, US2006210505, US2006201976, US2006169723, US2006094628, US2006016835, US2006008438, US2006006203, US2006006202, US2005279781, US2005269373, US2005269372, US2005192187, US2005155275, US2005100570, US2004251278, US2004223991, US2004057920, US2004031814, US2003203010, US2003173379, RU2606327, RU2602364, KR100707979, JP2013014341, GB2437951, EP1676783, EP1622814, EP1445208, EP0885813, CN102712396, AU2010292122, AU2002306351,

Abstract:

Source: US5632420A A dispensing package including a resiliently deformable bottle and an overcap capable of being coupled with the top of the bottle to protect a self-sealing dispensing valve. The valve is coupled with the overcap or a closure. The overcap includes a hinged lid pivotal from a closed position at which it protects the valve to an open position at which product in the bottle may be dispensed when the package is inverted.

146) Family number: 33811363 (US2008000870A)

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Title: STOPPER FOR FLASKS OF STERILE PRODUCTS AND USE OF SAID STOPPER IN STERILE MEASURED FILLING**Priority:** CA20072588426 20070510 EP20070380135 20070511 ES20060001691 20060619

Family:	Publication number	Publication date	Application number	Application date
	<u>AT512899 E</u>	20110715	AT20070380135T	20070511
	<u>CA2588426 AA</u>	20071219	CA20072588426	20070510
	<u>CA2588426 C</u>	20111206	CA20072588426	20070510
	<u>DE602007015210 D1</u>	20110721	DE200760015210T	20070511
	<u>EP1870347 A2</u>	20071226	EP20070380135	20070511
	<u>EP1870347 A3</u>	20090930	EP20070380135	20070511
	<u>EP1870347 B1</u>	20110615	EP20070380135	20070511
	<u>ES2261104 AA</u>	20061101	ES20060001691	20060619
	<u>ES2261104 BA</u>	20070616	ES20060001691	20060619
	<u>ES2367817 T3</u>	20111108	ES20070380135T	20070511
	<u>JP2008001430 A2</u>	20080110	JP20070161158	20070619
	<u>US2008000870 AA</u>	20080103	US20070759578	20070607

Probable Assignee: GRIFOLS SA**Assignee(s):^(std):** GRIFOLS S A ; GRIFOLS SA**Assignee(s):** SANCHEZ SABATE JOSE RAMON ; LOPEZ ALVAREZ DIEGO ; ROURA ADELL SERGI ; GRIFOLS SHARED SERVICES NORTH AMERICA INC ; GRIFOLS THERAPEUTICS INC ; TALECRIS BIOTHERAPEUTICS INC ; DEUTSCHE BANK NEW YORK BRANCH AG ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; GRIFOLS DIAGNOSTIC SOLUTIONS INC ; GRIFOLS INC**Inventor(s):^(std):** LOPEZ ALVAREZ DIEGO ; ROURA ADELL SERGI ; SANCHEZ SABATE JOSE RAMON**Agent(s):** ROBIC; KSNH PATENTANWALTE KLUNKER SCHMITT NILSON HIRSCH; DURAN MOYA LUIS ALFONSO; KATO NOBUAKI; TAKAHASHI SEIICHIRO; OCHI TAKAO; USUI SHINICHI; MATSUI TAKAO; OKABE MASAO; YOSHIZAWA HIROSHI; OKABE YUZURU; DARBY AND DARBY PC**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 MK MT NL PL PT RO RS SE SI SK TR YU

International class
 (IPC 8-9): A61B19/00 A61J1/00 A61J1/05 A61L2/07 A61L2/24 B65B55/04 B65D39/00 B65D39/04 B65D41/28 B65D51/00 B65D51/18 (Advanced/Invention);
A61B19/00 A61J1/00 A61J1/05 A61L2/00 A61L2/04 B65B55/04 B65D39/00 B65D41/02 B65D51/00 B65D51/18 (Core/Invention)

CPC: A61L2/07 A61L2/24 B65D51/18 A61J1/1443 B65D51/002 B65D2251/0015 B65D2251/009 A61J1/1468 A61J1/1425**European class:** A61J1/14C A61J1/14F A61L2/07 A61L2/24 B65D51/00B B65D51/18 K61J1/14C4 K61J1/14M L65D251/00Y2D L65D251/00Y6K**US class:** 215/247 215/247S 215/355 604/415 604/415S[Classification Explorer](#)**Cited documents:** WO06008261 A1, WO02056820 A1, US6277331 BA, US6255101 BA, US6068150 A, US5924584 A, US5901866 A, US5718348 A, US5377854 A, US5314084 A, US4915243 A, US4355111 A, US4243150 A, US4211333 A, US4193402 A, US2007102393 AA, JPS63135641 U, JP7165252 A2, JP63135641 U1, JP63135641 U, JP10095451 A2, ES2232269 BA, ES2232269 AA, ES2230890 T3, ES2230890, ES2016490 AF, ES2016490 A2, EP1447328 A2, EP1228973 A1, EP0837008 A1,**Forward Citations:** WO15029580, WO09144553, US9585811, US9555941, US9555940, US9260227, US2014251942, JP2015029580, EP2070834, CN104364165, CN102813522, CN102813522, CN102582943,

Abstract:

Source: US2008000870A A stopper for flasks for pharmaceutical products, characterized in that it comprises, in combination: a plug with resilient means for adjustment to the inner face of the neck and of the mouth of the container and an upper stoppering wall; means for defining a position for pre-stoppering of the flask, before the stoppered position; a protector joined to the plug which comprises a lateral wall of synthetic material, said lateral wall having a projection for engagement with an annular protuberance located on the mouth of the container; the aforesaid protector having an extension which, when the stopper is in its pre-stoppered position, creates a labyrinth closure with respect to the particles which might be present in the surroundings in which the container is being handled.

0) US2014147627A – SLIPPERY SURFACES WITH HIGH PRESSURE STABILITY,...

147) Family number: 51597679 (US2014147627A)

© PatBase

Title: SLIPPERY SURFACES WITH HIGH PRESSURE STABILITY, OPTICAL TRANSPARENCY, AND SELF-HEALING CHARACTERISTICS

Priority: AU20120207206 20120119 AU20160200048 20160106 US20110434217P 20110119
 US20110466352P 20110322 JP20130550592T 20120119 AU20170239543 20171005
 US20110509488P 20110719 US20110538100P 20110922 US20110496883P 20110614
 US20110470973P 20110401 US20110529734P 20110831 US20120980856 20120119
 US20120980858 20120119 US20130140374 20131224 WO2012US21928 20120119
 WO2012US21929 20120119 US20140980856 20140211 US20130140391 20131224
 US20160134070 20160420

Family:

Publication number	Publication date	Application number	Application date
AU2012207205 AA	20120726	AU20120207205	20120119
AU2012207205 BB	20160317	AU20120207205	20120119
AU2012207205 CA	20160908	AU20120207205	20120119
AU2012207206 AA	20120726	AU20120207206	20120119
AU2012207206 BB	20151008	AU20120207206	20120119
AU20160200048 AA	20160128	AU20160200048	20160106
AU20160200048 BB	20170706	AU20160200048	20160106
AU2017239543 AA	20171026	AU20170239543	20171005
CA2825008 AA	20130717	CA20122825008	20120119
CA2825012 AA	20130717	CA20122825012	20120119
CN103649240 A	20140319	CN201280012205	20120119
CN103649240 B	20160914	CN201280012205	20120119
CN103703085 A	20140402	CN201280012210	20120119
CN103703085 B	20160928	CN201280012210	20120119
EP2665782 A2	20131127	EP20120703922	20120119
EP2665783 A2	20131127	EP20120705182	20120119
IN02543KN2013 A	20140411	IN2013KN02543	20130816
IN02544KN2013 A	20140411	IN2013KN02544	20130816
JP2014504519 T2	20140224	JP20130550592T	20120119
JP2014509959 T2	20140424	JP20130550591T	20120119
JP2017140405 A2	20170817	JP20170043866	20170308
KR20140004723 A	20140113	KR20137021610	20120119
KR20140019322 A	20140214	KR20137021611	20120119
US2014147627 AA	20140529	US20120980856	20120119
US2014187666 AA	20140703	US20120980858	20120119
US2014290731 AA	20141002	US20130140374	20131224
US2014290732 AA	20141002	US20130140391	20131224
US2017015835 AA	20170119	US20160134070	20160420
US9121306 BB	20150901	US20130140374	20131224
US9121307 BB	20150901	US20130140391	20131224
US9353646 BB	20160531	US20120980856	20120119
WO12100099 A2	20120726	WO2012US21928	20120119
WO12100099 A3	20121018	WO2012US21928	20120119
WO12100100 A2	20120726	WO2012US21929	20120119
WO12100100 A3	20121018	WO2012US21929	20120119

Probable Assignee: HARVARD COLLEGE

Assignee(s):^(std):

AIZENBERG JOANNA ; AIZENBERG MICHAEL ; HARVARD COLLEGE ; HATTON BENJAMIN ; INGBER DONALD ; SUPER MICHAEL ; INGBER DONALD ELLIOTT ; WONG TAK SING ; KANG SUNG HOON ; KIM PHILSEOK ; TANG KAM YAN

Assignee(s): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Inventor(s):^(std): AIZENBERG JOANNA ; AIZENBERG MICHAEL ; HATTON BENJAMIN ; INGBER DONALD ; INGBER DONALD ELLIOTT ; KANG SUNG HOON ; KIM PHIL SEOK ; KIM PHILSEOK ; SUPER MICHAEL ; TANG KAM YAN ; WONG TAK SING

Inventor(s): WONG TAK ; TANG KAM ; KANG SUNG

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; CAMENISCH ANDREW RICHARD; HIROE AND ASSOCIATES PATENT PROFESSIONAL CORP; WILMER CUTLER PICKERING HALE AND DORR LLP; SCOZZAFAVA MARY ROSE 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 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 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

International class
(IPC 8-9): A61L15/24 A61L15/34 A61L15/42 A61L15/46 A61L15/50 A61L27/28 A61L27/34 A61L27/50 A61L29/08 A61L29/14 A61L31/10 A61L31/14 A61L33/00 A61L33/06 B01L3/00 B05D3/00 B05D5/00 B05D5/08 B32B7/02 B32B7/04 B65D25/14 C08J7/04 C09D5/00 C09D5/16 C10M105/54 C10M105/56 F01D25/18 F15D1/02 F15D1/10 F28F13/18 F28F19/02 G02B1/14 H01L31/0236 (Advanced/Invention); B05D5/08 (Advanced/Non-invention)

CPC: B05D5/00 B05D3/002 H01L31/0236 F28F13/185 A61L15/34 A61L15/42 A61L15/46 A61L27/34 A61L27/50 A61L33/0094 A61L33/064 A61L2400/12 B05D5/083 C09D5/1656 C09D5/1681 C09D5/1693 F15D1/02 F15D1/10 C08L27/12 Y10T428/24355 Y10T428/24364 C09D5/00 C10M105/56 C10M105/54 B01L3/5027 F28F19/02 G02B1/14 B65D25/14 B64D15/00 B01D69/02 B01D2325/06 B01L2300/16 B63B59/04 C02F1/44 D06M13/00 E04B1/92 F01D25/02 F16L57/00 F28F2245/04 H01L31/02167 F01D25/18 A61L15/24 A61L27/28 C09D5/16

European class: A61L15/24 A61L15/34 A61L15/42 A61L15/46 A61L27/28 A61L27/34 A61L27/50 A61L33/00T A61L33/06B B05D5/08C C09D5/16H C09D5/16L C09D5/16R F15D1/02 F15D1/10 K61L400/12 L05D5/08C

US class: 1/1 136/256 427/299 427/301 428/141 428/142 523/113 524/546 524/577

[Classification Explorer](#)

Cited documents: WO9936490 A1, WO9317077 A1, WO11005200 A1, WO10065960 A2, WO10028752 A1, WO09048880 A1, WO07130734 A2, WO07046348 A1, WO06091235 A1, WO05121288 A1, WO03013827 A1, US7811666 BB, US7723405 BB, US7192993 BA, US7189934 BB, US6511753 BA, US5798409 A, US5624713 A, US5620778 A, US5476589 A, US5358719 A, US35350510 P, US3274007 A, US2011287987 AA, US2011283778 AA, US201113466352 P, US201113434217 P, US201113058611, US2011044553, US2009098299 AA, US2009078153 AA, US2007039832 AA, US2006153993 AA, US2006024504 AA, US2005164008 AA, US2004186211 AA, JP7242769 A2, JP62063219 A2, JP5240251 B2, JP5240251 A2, JP5229402 A2, JP4270649 A2, JP2010047890 A2, JP2009515604 T2, JP2008508181 T2, JP2005231084 A2, JP2004037764 A2, JP2003170540 A2, JP2000510353 T2, JP1170932 A2, EP1487590 B1, EP1487590 A2, EP0893164 A2, DE19818956 A1, CN101918621 A, CN101675156 A, CN101580753 A, CN101538395 A, CN101444777 A, CN101374607 A, CN101198542 A,

Forward Citations: WO17165411, WO17068378, WO17029624, WO16179588, WO16172561, WO16069785, WO16069674, WO16069239, WO16014946, WO15199791, WO15182383, WO15179410, WO15166191, WO15163189, WO15071122, WO15069820, WO15042118, WO15012358, WO15005030, WO14209441, WO14197667, WO14188883, WO14179283, WO14149465, WO14145586, WO14145528, WO14134498, WO14126010, WO14123217, WO14110511, WO14093221, WO14078867, WO14012078, WO14010534, WO13169994, WO13169994, WO13130118, WO13106588, WO13022467, WO13022467, US9764093, US9694965, US9670304, US9664935, US9664626, US9662450, US9655293, US9632085, US9630224, US9625075, US9593160, US9585757, US9572526, US9554968, US9545360, US9502325, US9498934, US9492578, US9458536, US9427679, US9385062, US9381528, US9373561, US9371173, US9309162, US9272095, US9254496, US9220831, US9156037, US9150631, US8940361, US8574704, US8535779, US2017190139, US2016122677, US2016061713, US2015309073, US2015239773, US2015153558, US2015144522, US2015143916, US2015129122, US2015125575, US2015052932, US2014360021, US2014234579, US2014144947,

US2014127516, US2014087173, US2014023852, US2013330501, US2013110222, US2013032316, RU2630911, KR20170016453, KR20170016452, KR20170008787, KR20160142386, KR101753676, JP6052641, JP6051278, JP5673905, JP5673870, JP2017039533, JP2015042481, JP2015005030, JP2014188883, FR3020669, EP3025852, EP2969258, EP2957519, EP2955120, EP2901987, EP2873630, EP2873630, EP2711417, CN105733385, CN105722734, CN105518082, CN105408103, CN105264323, CN105188967, CN105061804, CN104995103, CN104995103, CN104846508, CN104759019, CN104451811, CN104310302, CN104307582, CN104117833, CN104117833, AU2014294081,

Abstract:

Source: US2014147627A The present disclosure describes a strategy to create self-healing, slippery liquid-infused porous surfaces (SLIPS). Roughened (e.g., porous) surfaces can be utilized to lock in place a lubricating fluid, referred to herein as Liquid B to repel a wide range of materials, referred to herein as Object A (Solid A or Liquid A). SLIPS outperforms other conventional surfaces in its capability to repel various simple and complex liquids (water, hydrocarbons, crude oil and blood), maintain low-contact-angle hysteresis (<2.5 degrees), quickly restore liquid-repellency after physical damage (within 0.1–1 s), resist ice, microorganisms and insects adhesion, and function at high pressures (up to at least 690 atm). Some exemplary application where SLIPS will be useful include energy-efficient fluid handling and transportation, optical sensing, medicine, and as self-cleaning, and anti-fouling materials operating in extreme environments.

148) Family number: 1257853 (GB1547854A)

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Title: CLOSURE CAP PARTICULARY FOR CONTAINERS HAVING A SCREWTHREADED NACK**Priority:** FR19750010732 19750407 FR19760006362 19760305

Family:	Publication number	Publication date	Application number	Application date
	BE839578 A	19760915	BE19760165174	19760315
	BE839578 A1	19760915	BE19760165174	19760315
	DE2614335 A1	19761021	DE19762614335	19760402
	DK141076 A	19761006	DK19760001410	19760330
	FR2306895 A1	19761105	FR19750010732	19750407
	FR2306895 B1	19820326	FR19750010732	19750407
	FR2342909 A2	19770930	FR19760006362	19760305
	FR2342909 B2	19820702	FR19760006362	19760305
	GB1547854 A	19790627	GB19760012401	19760326
	IE43361 B	19810211	IE19760000669	19760330
	IT1070238 A	19850329	IT19760067802	19760406
	LU74665 A	19770128	LU19760074665	19760329
	NL7603675 A	19761011	NL19760003675	19760407

Probable Assignee: FRED A TULLIE**Assignee(s):**^(std): FRED A T ; FRED A TULLIE ; FRED A TULLIO ; TULLIO FRED A**Assignee(s):** TULLIO FRED A TE ISSY LES MOULINEAUX FRANKRIJK**Inventor(s):**^(std): FRED A T ; FRED A TULLIO**International class**
^{(IPC 8-9):} [B65D41/04](#) (Advanced/Invention);
[B65D41/04](#) (Core/Invention)**International class**
^{(IPC 1-7):} [B65D41/02](#) [B65D41/04](#) [B65D41/08](#) [B65D41/28](#)**CPC:** [B65D41/04](#) [B65D41/0421](#) [B65D41/0428](#)**European class:** [B65D41/04](#) [B65D41/04B1A](#) [B65D41/04B2](#)[Classification Explorer](#)**Forward Citations:** WO9011231, WO8001061, WO07057706, WO0034133, WO0034133, US6581792, US4122965, GB2161797, GB2148861, GB2131774, EP1212243, EP0389815, EP0140655,**Abstract:**

Source: GB1547854A **WARNING** start of CLMS field may overlap end of DESC **. handling operations is reducef and the total cost of the caps can be considerably lowered. WHAT I CLAIM IS:- 1. A cap for containers having a screwthreaded neck, said cap comprising an internally threaded skirt portion and an integrally formed substantially planer end wall of resilient plastics material extending across the whole cross-sectional area of the annular skirt portion and forming an end closure thereto, wherein both the internal and external faces of said end wall have a concave configuration and wherein said internal face has upstanding therefrom an annular lip portion which when the cap is.

0) GB888464A – IMPROVEMENTS IN OR RELATING TO STOPPERS

149) Family number: 20822276 (GB888464A)

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Title: Improvements in or relating to stoppers

Priority: GB19570016296 19570522

Family:	Publication number	Publication date	Application number	Application date
	<u>GB888464 A</u>	19620131	GB19570016296	19570522

Probable Assignee: PERMUTA CLOSURES LTD

Assignee(s):^(std): PERMUTA CLOSURES LTD

Assignee(s): PERMUTA CLOSURES LIMITED

Inventor(s):^(std): WOOD ARTHUR GEORGE

International class B65D39/00 B65D39/16 (Advanced/Invention)
(IPC 8-9):

International class B65D39/00
(IPC 1-7):

CPC: B65D39/0023 B65D39/16

European class: B65D39/00F3 B65D39/16

[Classification Explorer](#)

Abstract:

Source: GB888464A 888,464. Bottle stoppers. PERMUTA CLOSURES Ltd. May 14, 1958 [May 22, 1957], No. 16296/57. Class 125(3). A resilient stopper of polythene, polyvinyl chloride or nylon has a thin walled body portion 1 with annular ribs 3, 4 bridged by longitudinal ribs 5 of approximately the same height and forming gliding surfaces. In a modification the lower rib 3 is widened and in further described embodiments the annular ribs are of zig-zag configuration.

150) Family number: 3623168 (FR2376798A)

© PatBase

Title: CONTENANT DISTRIBUTEUR DE LIQUIDE, CREME OU POUDRE CONTAINER AND DISPENSER FOR LIQ. OR POWDER – HAS CENTRAL PLUG BELOW STOPPER WITH METERING ORIFICE**Priority:** FR19770000326 19770107

Family:	Publication number	Publication date	Application number	Application date
	FR2376798 A1	19780804	FR19770000326	19770107
	FR2376798 B1	19810724	FR19770000326	19770107

Probable Assignee: PARCHIMY PARFUMERIE CHIMIE**Assignee(s):**^(std) PARCHIMY PARFUMERIE CHIMIE**International class**
(IPC 8-9): [B65D47/12](#) [B65D47/18](#) (Advanced/Invention);
[B65D47/06](#) [B65D47/12](#) (Core/Invention)**International class**
(IPC 1-7): [B65D1/08](#) [B65D23/04](#) [B65D47/18](#)**CPC:** [B65D47/123](#) [B65D47/18](#)**European class:** [B65D47/12B1](#) [B65D47/18](#)[Classification Explorer](#)**Forward Citations:** WO0040469, US5950851, US4669621, US4535906, GB2361465,**Abstract:**

Source: FR2376798A L'invention concerne un contenant distributeur de liquide, creme ou poudre a embout stilligoutte. Le contenant comporte un col de forme tubulaire dont la surface interne comporte une zone a faible diametre et une zone a plus grand diametre. La zone a grand diametre debouche dans le corps du contenant, par l'intermediaire d'une surface de raccordement, suivant une ouverture dont une dimension au moins est inferieure au diametre de la partie a faible diametre du col. L'obturateur stilligoutte de forme tubulaire est dispose en position de service a l'interieur du col, dans la zone a grand diametre. Cet obturateur comporte sur toute sa peripherie une levre souple d'etancheite de diametre intermediaire entre les diametres des deux parties de la surface interne du col. La mise en service du stilligoutte s'effectue par poussee sur une de ses extremités jusqu'au moment ou la levre d'etancheite est passee dans la zone a plus grand diametre du col. L'invention s'applique plus particulierement a la distribution de produits liquides, de cremes et de poudres en quantites faibles et dosees. The container (1) has a narrow neck (11) which has a moulded external thread (3). The stopper has an inner cylindrical portion which is threaded on the inside. The top of the stopper is flat and circular and supports an outer cylinder which extends down to the sides of the container. The inside of the stopper has an internal cylindrical plug (18) which fits inside the neck. The neck of the bottle has a separate dispenser with a central hole (15). The dispenser has cylindrical sides and is wedged above the narrow part of the neck.

0) GB722642A – IMPROVEMENTS IN BOTTLE CLOSURES

151) Family number: 19961875 (GB722642A)

© PatBase

Title: Improvements in bottle closures

Priority: 19521024

Family:	Publication number	Publication date	Application number	Application date
	<u>GB722642 A</u>	19550126	GB19520030433	19521201

Probable Assignee: INTER SEAL CORP

Assignee(s):^(std): INTER SEAL CORP

International class B65D49/06 B65D55/08 (Advanced/Invention) ;
(IPC 8-9) B65D49/00 B65D55/02 (Core/Invention)

International class B65D47/02 B65D49/04
(IPC 1-7) :

CPC: B65D49/06 B65D55/0872

European class: B65D49/06 B65D55/08D

[Classification Explorer](#)

Forward Citations: WO07006878, USRE42553, US8061567, US7757902, US6543648, US6409049, US6186359, US5799810, US5562219, GB2244691, GB2244691, FR2888216, FR2888216, EP2514532, EP1897623, EP1161386, EP1161386,

Abstract:

Source: GB722642A 722,642. Bottle closures; non-refillable bottles. INTER-SEAL CORPORATION. Dec. 1, 1952 [Oct. 24, 1952], No. 30433/52. Classes 125 (1) and 125 (3). A bottle closure 14 has integral tongues 25 extending downwardly from its lower edge along the outside of the bottle neck 10 with internal projections 25a at their lower ends engaged beneath a bead 11 on the bottle, and external projections 25b above their lower ends engaged by a sleeve 26 telescoped over the closure to hold the tongues against withdrawal of the internal projections 25a from beneath the bead. The sleeve may have an internal shoulder 26a which snaps over the external projections 25b to lock the closure, or the sleeve may be secured to the tongues by a suitable solvent, the parts being made of plastic. The projections 25b cause the tongues 25 to be forced inwardly to thrust the projections 25a. beneath the bead and thus compress a gasket 20 on to the mouth of the bottle. An external transverse rib may be provided at the bottom of the tongues to arrest downward movement of the sleeve. The invention is shown applied to a non-refillable closure of the kind described in Specification 633,436 with a valve 21, float. 22 and ball weight 23, but it may be applied to a simple cap for tamperproof purposes. To prevent turning of the closure an external lug on the bottle neck is received into the space between a pair of the tongues 25.

Title:

Priority:

Family:

Probable Assignee:

Assignee(s):^(std):

Inventor(s):^(std):

International class
(IPC 8-9):

International class
(IPC 1-7):

CPC:

European class:

US class:

Classification Explorer

Cited documents:

Forward Citations:

Bottle stopper

US19740505478 19740912

Publication number	Publication date	Application number	Application date
<u>US3955712 A</u>	19760511	US19740505478	19740912

SANTORE ANTHONY

SANTORE ANTHONY

SANTORE ANTHONY

B65D47/12 (Advanced/Invention);
B65D47/12 (Core/Invention)

B65D47/06

B65D47/121

B65D47/12A

222/484 222/519 222/552 222/80

Classification Explorer

US693161 A, US3262613 A, US3197091 A, US3051349 A, US2549225 A, US2167476 A, US1472817 A, US116245 A, IT490070 A,

WO0246056, USD606399, US7021506, US6601740, US6520387, US5829638, US5147076, US4925327, US4625884, US4550862, US2003218032,

Abstract:

Source: US3955712A A hollow stopper for dispensing fluid from a bottle having a neck and a top lip is provided. The stopper comprises a top wall having a laterally extending, downwardly open, spout-like protrusion. The top wall has a continuous, annular, uninterrupted undersurface for sealing engagement with the top lip of a bottle. An annular skirt depends from the top wall inwardly of said undersurface. The skirt is adapted to fit within the neck of a bottle and to move axially with respect thereto between a sealing position in which said undersurface is in sealing engagement with the bottle lip and a plurality of dispensing positions in which said undersurface is spaced from the bottle lip. The skirt includes an axial pouring slot extending from the top wall undersurface along one side of the skirt in alignment with the spout-like protrusion. The skirt also has a continuous, substantially axial, air-admitting channel substantially diametrically opposite the pouring slot and extending from the top wall substantially the full length of the skirt.

0) US5692652A – SELF-CLOSING VALVE FOR BOTTLES

153) Family number: 13331527 (US5692652A)

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Title: Self-closing valve for bottles

Priority: US19940324871 19941018 US19970781100 19970108

Family:	Publication number	Publication date	Application number	Application date
	US5692652 A	19971202	US19970781100	19970108

Probable Assignee: WISE HECTOR G

Assignee(s):^(std): WISE HECTOR G

Inventor(s):^(std): WISE HECTOR G

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

International class
(IPC 1-7): [B67D3/00](#)

CPC: [B65D47/2075](#)

European class: [B65D47/20E4A3](#)

US class: [222/518](#)

[Classification Explorer](#)

Cited documents: US819217 A, US780472 A, US5123570 A, US5020702 A, US5000360 A, US5000354 A, US4936446 A, US3731851 A, US3241727 A, US3154222 A, US3074444 A, US2857080 A, US16553 A, US1046515 A,

Forward Citations: US9046820, US8909094, US6783036, US6702160,

Abstract:

Source: US5692652A A self-closing valve for use with a bottle which includes a body having a neck with an opening therein at one end, and a moveable base at the other, is provided. In general, the valve comprises a stopper for selective location in the opening of the neck of the bottle, and an elongate actuating arm for moving the stopper. One end of the elongate arm is connected to the base of the bottle, while the stopper is located at the opposite end. Means are provided for allowing the base of the bottle to move with respect to the body. Pressure on the base of the bottle thus causes upward movement of the elongate arm, which movement causes the stopper to be pressed outwardly from the opening in the neck of the bottle, thus allowing fluid to flow from the bottle. Biasing means cause the base of the bottle to return to its natural state upon removal of the pressure, which simultaneously causes the stopper to be retracted into the neck of the bottle, stopping fluid flow.

154) Family number: 19556267 (GB667081A)

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Title: Improvements in or relating to pourers for fluids**Priority:** GB19490001908 19490124

Publication number	Publication date	Application number	Application date
GB667081 A	19520227	GB19490001908	19490124

Probable Assignee: JAMES REYNOLDS**Assignee(s):**^(std): JAMES REYNOLDS

International class [B65D47/06](#) (Advanced/Invention);
^{(IPC 8-9):} [B65D47/06](#) (Core/Invention)

International class [B65D47/26](#)
^{(IPC 1-7):}

CPC: [B65D47/061](#)**European class:** [B65D47/06A](#)[Classification Explorer](#)**Forward Citations:** WO11148334, US9452919, US2919057, ITVI20100149,**Abstract:**

Source: GB667081A 667,081. Pouring spouts of liquidcontainers. REYNOLDS, J. Jan. 9, 1950 [Jan. 24, 1949; April 21, 1949], Nos. 1908/49 and 10668/49. Classes 66 and 125(iii) A tubular spout 9 for a bottle c. is curved at 11 and telescopes into, e.g. a recessed stopper 5 flanged at 4 and double-skirted at 7, 8. A spiral spring 14 bears against projections 12, 15 and moves the spout 9 outwardly, until its flared end 10 bears against the stopper, on removal of a screw-cap covering the stopper. The projection 12 may be an air-inlet and there may be a second air-inlet 13. The stopper may be of cork or polythene c. and the spout 9 of glass c. In a modification, the spring bears against a rib round the outer part of the stem of the spout.

0) DE102006033413A1 – BOTTLE E.G. WINE BOTTLE, CLOSURE, HAS CAP SWIVE...

155) Family number: 41701998 (DE102006033413A1)

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Title: BOTTLE E.G. WINE BOTTLE, CLOSURE, HAS CAP SWIVELABLE RELATIVE TO STOPPER, AND GUIDING DEVICE ARRANGED BETWEEN CAP AND STOPPER, WHERE LIFTING MOVEMENT OF CAP IS IMPLEMENTED RELATIVE TO STOPPER BY GUIDING DEVICE DURING ROTATION OF CAP

Priority: DE200610033413 20060719

Publication number	Publication date	Application number	Application date
<u>DE102006033413 A1</u>	20080417	DE200610033413	20060719

Probable Assignee: RUDOLF OHLINGER GMBH AND CO KG

Assignee(s):^(std) RUDOLF OHLINGER GMBH AND CO KG

Inventor(s):^(std) HAHN ALFRED ; JAEGER JENS

International class B65D51/18 (Advanced/Invention)
(IPC 8-9):

CPC: B65D41/28 B65D41/62 B65D2251/0015 B65D2251/0075

European class: B65D41/28 B65D41/62 L65D251/00Y2D L65D251/00Y6B

[Classification Explorer](#)

Cited documents: DE10345654 A1,

Forward Citations: WO13021123, FR2978739,

Abstract:

The closure (10) has a stopper (11) insertable in a sealed manner into an orifice of a bottle neck (20) and a closure cap (15), which surrounds the stopper and an end of the bottle neck from an outer side, where the end is adjacent to the orifice. The closure cap is swivelable relative to the stopper, and a guiding device (18) is arranged between the closure cap and the stopper. A lifting movement of the cap is implemented relative to the stopper by guiding device during the rotation of the cap. The lifting movement runs perpendicularly to the rotating motion.

156) Family number: 11498035 (WO0007795A1)

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Title: IMPROVEMENTS TO FIXED CLOSURES WITH REMOVABLE CAP, INTERDEPENDENT OF TUBULAR ARRANGEMENTS OF A BOTTLE-STRAW FOR BEVERAGES, EVEN CARBONATED DRINKS AND METHODS FOR MAKING SAME

Priority: FR19980001275 19980204 FR19980009983 19980804 WO1999FR01925 19990804

Family:	Publication number	Publication date	Application number	Application date
	AU199951693 A1	20000228	AU19990051693	19990804
	AU199951693 A5	20000228	AU19990051693	19990804
	EP1112160 A1	20010704	EP19990936682	19990804
	FR2782067 A1	20000211	FR19980009983	19980804
	FR2782067 B1	20000929	FR19980009983	19980804
	WO0007795 A1	20000217	WO1999FR01925	19990804

Probable Assignee: NATAF PAUL

Assignee(s):^(std): NATAF PAUL

Assignee(s): PAUL NATAF

Inventor(s):^(std): NATAF PAUL

Inventor(s): PAUL NATAF

Designated states: AM AT AU AZ BE BR BY CA CH CN CY DE DK ES FI FR GB GR IE IL IN IT JP KG KR KZ LI LU MC MD MX NL NO PL PT RU SE SG TJ TM TR UA US VN

International class
(IPC 8-9): [B29C45/26](#) [B65D41/48](#) [B65D77/28](#) (Advanced/Invention);
[B29C45/26](#) [B65D41/32](#) [B65D77/24](#) (Core/Invention)

International class
(IPC 1-7): [B29C45/26](#) [B29C49/48](#) [B65D1/02](#) [B65D41/48](#) [B65D51/24](#) [B65D77/28](#)

CPC: [B29C45/26](#) [B29K2105/253](#) [B65D41/48](#) [B65D77/283](#)

European class: [B29C45/26](#) [B65D41/48](#) [B65D77/28C](#) [L29K105/25C](#)

[Classification Explorer](#)

Cited documents: WO9511176 A1, GB1139531 A, FR2750360 A1,

Forward Citations: WO0192133, WO0105576,

Abstract:

The invention concerns a tamperproof device consisting of a fixed part (1) and its davit (1'), which is urged to enclose the neck (15) on its flat section (18'), and is extended by a portion (2) with a recess (2') forming a housing (17'), to be extended by a cap (3) enclosing the projecting tubing without touching it (16) ensuring its hygienic protection, the latter which extends internally (16a) form together the suction straw of the bottle-straw. The projecting tubing (16) passes through the neck (15) inside and is integral with it by a vertical membrane (M), while comprising above its orifice, a fine horizontal and circular blade (L) positioned in the housing (17'), the removable cap (3) on its line of least thickness (19) and its opening by twisting is facilitated by the two projecting vertical ridges (3'), the pressurised CO2 follows the path forming a vent through the annular space (17), but the carbonated drink is prevented therefrom by the fine blade (L) which by its outer periphery, will be urged to press on the upper surface of its housing (17') formed by the recess (2').

Title: TAMPER-EVIDENT CLOSURE**Priority:** MX19900022219 19900904

Family:	Publication number	Publication date	Application number	Application date
	BRPI9103098 A	19920428	BR1991PI03098	19910719
	ES2048039 AB	19940301	ES19910001757	19910726
	ES2048039 AC	19950401	ES19910001757	19910726
	ES2048039 BA	19951016	ES19910001757	19910726
	FR2666307 A1	19920306	FR19910002360	19910227
	GB2249303 A1	19920506	GB19910018768	19910903
	GB9118768 A0	19911016	GB19910018768	19910903
	ITTO910669 A0	19910903	IT1991TO00669	19910903
	ITTO910669 A1	19920304	IT1991TO00669	19910903
	JP7002264 A2	19950106	JP19910254824	19910904
	PT98846 A	19931029	PT19910098846	19910902

Probable Assignee: GRUPO STEVI SA**Assignee(s):**^(std): GRUPO STEVI SA ; GRUPPO STEVI S A ; GURUPO SUTEBUI SA**Assignee(s):** GRUPO STEVI SOCIEDAD ANONIMA ; GRUPO STEVI S A**Inventor(s):**^(std): STETA TORRES ; STETA TORRES GUILLERMO H ; TORRES GUILLERMO H STETA ; STETA TORRES H GUILLERMO ; GIJIERUMO ACHIE SUTETA TOORESU**Inventor(s):** GUILLERMO H STETA TORRES**International class**
^(IPC 8-9): [B65D47/02](#) [B65D49/04](#) [B65D49/12](#) [B65D55/02](#) [B67B1/06](#) ^(Advanced/Invention);
[B65D47/00](#) [B65D49/00](#) [B65D55/02](#) [B67B1/00](#) ^(Core/Invention)**International class**
^(IPC 1-7): [B65D41/00](#) [B65D41/32](#) [B65D41/34](#) [B65D47/02](#) [B65D47/06](#) [B65D49/02](#) [B65D49/12](#)
[B65D53/02](#) [B65D55/02](#) [B67B1/06](#)**CPC:** [B65D49/04](#) [B65D55/02](#)**European class:** [B65D49/04](#) [B65D55/02](#)[Classification Explorer](#)**Cited documents:** US4497415 A, GB2219570 A1, ES286143 U,**Forward Citations:** WO9623704, WO15109412, WO08017310, WO05000701, US9802737, US6460321, GB2407087, GB2366287, GB2366287, GB2302867, GB2302867, GB2293158, ES2261010, ES2204247, ES2133063, EP0807585, EP0807585, EP0706952, EA8659, EA012762, EA008659,**Abstract:**

Stopper for bottles or similar containers, comprising a screw cap of the tamper-evident type, an outlet, a seal and a cylindrical tube and, depending on the version, a tamper-evident ring. In certain versions, the tamper-evident cap comprises at its bottom a ring linked to the body of the cap by means of small segments or bridges which break when the cap is unscrewed for the first time, the fracture of these bridges remaining visible. In another version, the tamper-evident ring is not linked to the cap and breaks into two parts when the cap is unscrewed for the first time. In yet another version, the tamper-evident ring is divided into four sections which become detached from the stopper when the cap is unscrewed for the first time. The invention also proposes a stopper of the tamper-evident and anti-refilling type comprising, in addition to the above parts, a valve whose purpose is to allow the outlet of the liquid from inside the bottle or container and to prevent the entry of liquid, which results in the stopper, in addition to its tamper-evidence, preventing any new refilling.

158) Family number: 19527768 (GB656579A)

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Title: Improvements in or relating to stoppers for bottles, jars and the like**Priority:** GB19480020872 19490414

Publication number	Publication date	Application number	Application date
<u>GB656579 A</u>	19510829	GB19480020872	19490414

Probable Assignee: GEORGE WALTER GOODBURN**Assignee(s):^(std):** GEORGE WALTER GOODBURN ; GOODBURN ENGINEERING CO L ; GOODBURN ENGINEERING COMPANY L**Assignee(s):** GOODBURN ENGINEERING CO LTD ; GOODBURN ENGINEERING COMPANY LIMITED

International class B65D39/08 B65D41/04 F02M29/04 (Advanced/Invention) ;
 (IPC 8-9) B65D39/00 B65D41/04 F02M29/00 (Core/Invention)

International class B65D39/16
 (IPC 1-7)

CPC: B65D39/08 B65D41/0414 F02M29/04**European class:** B65D39/08 B65D41/04B1 F02M29/04[Classification Explorer](#)**Abstract:**

Source: GB656579A 20872/48. [Class 125 (iii)] A stopper of resiliently deformable material has an integrally formed sealing member which presses against the bottle neck when the stopper is screwed thereon. The stopper may be externally threaded at 12, the skirt portion 16 protecting the exterior of the bottle-neck; a recess 18 in the stopper head 13 renders it more deformable, the tapered sealing member 15 being compressed against the bottle-neck. When the stopper is internally threaded at 23, Fig. 3, the tapered plug portion 25 acts as a sealing member. The exterior of the skirt 22, 26 is provided with projections to improve the grip. The stopper may be of polythene or of plastic materials coloured to indicate the nature of the contents. The recess 18 may be of non-circular shape to receive a key for turning the stopper.

159) Family number: 20741715 (GB869400A)

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Title: Closure means with pourer device for bottles and the like which are non-refillable**Priority:** GB19590025003 19590721

Family:	Publication number	Publication date	Application number	Application date
	<u>GB869400 A</u>	19610531	GB19590025003	19590721

Probable Assignee: HERMANN KEMPF**Assignee(s):^(std):** HERMANN KEMPF

International class B65D49/02 (Advanced/Invention);
^{(IPC 8-9):} B65D49/00 (Core/Invention)

International class B65D49/00
^{(IPC 1-7):}

CPC: B65D49/02**European class:** B65D49/02[Classification Explorer](#)**Forward Citations:** WO07088317, WO06084903, GB2416765, GB2416765,**Abstract:**

Source: GB869400A 869,400. Non-refillable stoppers; venting apparatus. KEMPF, H. July 21, 1959, No. 25003/59. Classes 21 and 66. A non-refillable bottle stopper comprises a pouring aperture 2, closed before use by a screw cap 8 and designed to hold frictionally a pouring spout 10, a stopper 1 of synthetic plastics material and a non-return valve consisting of a retaining plate 16, Fig. 2, and a valve diaphragm 18. The non-return valve lies under a packing sleeve 19 in a recess 4 in the stopper 1 which is formed with an annular groove 3 connected with the aperture 2 by radial apertures 5 and by an axial bore 6 which opens into an annular groove 7 in the stopper 1. The diaphragm 18 has radial slots 17, and apertures 23 so small that air may pass through them but not liquid. The stopper 1 is held in the bottle neck 13 by a spring ring 12 and has internal projections 26 protecting the diaphragm 18, a packing 15 of cork or resilient plastics forming a seal between the stopper and the bottle neck. When liquid is poured from the bottle, air may enter the bottle through an air conduit 9 in the spout, the groove 7, the bore 6, apertures 25 in the sleeve 19 and the apertures 23 in the diaphragm 18 and thence via a groove 22 in the plate 16 from which a bore 21 extends into the interior of the bottle. Liquid from the bottle may pass out through apertures 20 in the plate 16, the slots 17 in the diaphragm 18 and thence through a cylindrical portion formed by resilient tongues on the packing sleeve 19.

160) Family number: 21848710 (FR1542739A)

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Title: BOUCHON VERSEUR GARANTISSANT L'AUTHENTICITE DU PRODUIT POURING STOPPER ENSURES THE AUTHENTICITY OF THE PRODUCT (Machine translation)**Priority:** FR19670120294 19670907

Family:	Publication number	Publication date	Application number	Application date
	<u>FR1542739 A</u>	19681018	FR19670120294	19670907

Probable Assignee: WERNER WARSAWSKY KG**Assignee(s)^(std):** WERNER WARSAWSKY KG**Assignee(s):** WERNER WARSAWSKY KG KUNSTOFF SPRITZGUSSWERK ; WERNER WARSAWSKY KUNSTOFF SPRITZGUSSWERK KG**International class** B65D49/02 (Advanced/Invention) ;
(IPC 8-9) : B65D49/00 (Core/Invention)**International class** B65D49/02
(IPC 1-7) :**CPC:** B65D49/02**European class:** B65D49/02[Classification Explorer](#)**Abstract:**

Source: FR1542739A [Source: Claim 1] 1. **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. tube comporte une cage intermediaire 3 a, qui est par exemple rapportee par soudage et dont la partie superieure est formee d'une plaque horizontale presentant des trous 11 et a partir de laquelle une enveloppe laterale eomportant des passages 4 descend coniquement vers la paroi du tube-verseur. Une plaque d'etancheite ou clapet 6 a reposant sur le passage 2 comporte un trou central par lequel elle coulisse librement sur –une cheville de guidage vertical 5 reliee a sa partie superieure a la plaque horizontale de la cage intermediaire. Le mode de fonetionnement du bouchonverseur est le suivant: apres avoir enleve le capuchon non represente en le faisant tourner sur le filet du col de la bouteille, on peut verser le contenu de celle-ci. Le contenu de la bouteilk exerce une pression sur la plaque d'etancheite 6 a qui se souleve en consequence sur la cheville de guidage 5, de sorte que le lixude-peut s'ecouler par les ouvertures 4. Lorsque le service est termine, la plaque d'etancheite 6 a retombe, le passage est obture et il est impossible de remplir la bouteille. La partie superieure de la cage intermediaire 3 a peut egalement etre conique ou hemisPhe- rique pour que le deversement soit regulier. La conformation particuliere de la cage intermediaire et notamment de ses ouvertures 4 exclut toute possibilite de soulevement de la plaque d'etancheite 6 a du passage 2 a l'aide d'un fil ou autre. li est egalement impossible de remplir la bouteille placee obliquement, car la plaque d'etancheite comporte sur sa face superieure des evidements qui se remplissent de liquide lorsqu'on essaye de remplir la bouteille par les trous 11, cette plaque etant ainsi repoussee de maniere certaine contre le passage [Source: Claim 1] 1. ** WARNING ** start of CLMS field may contain end of DESC **. tube has an intermediate cage 3, which is for example attached by welding, and whose upper part is formed of a horizontal plate having holes 11 and from which a side envelope eomportant passages 4 down conically towards the tube wall –verseur. A sealing plate or valve 6 is based on the passage 2 has a central hole through which it slides freely on –a vertical guide pin 5 connected to its upper part to the horizontal plate of the intermediate shaft. The fonetionnement mode bouchonverseur is: after removing the cap not represented by turning on the net on the neck of the bottle, you can pour the contents thereof. The content of the bouteilk puts pressure on the tightness 6 plate which raised accordingly on the guide pin 5, so that the can-lixude to flow through the openings 4. When the service is complete, the 6 a plate of tightness falls, the passage is closes and it is impossible to fill the bottle. The upper part of the intermediate cage 3 may also be conical or hemispherical so that the spill is regular. The particular conformation of the intermediate cage and in particular openings 4 excludes any possibility of uprising of the tightness 6 plate of the passage 2 by means of a wire or another. li is also possible to fill the bottle placed obliquely because of tightness plate has on its upper side of recesses that fill with liquid when trying to fill the bottle with the holes 11, this plate thus being repulsed in some ways against the passing

161) Family number: 21997713 (FR1475794A)

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Title: ELEMENT DE BOUCHAGE POUR FLACONS, BOUTEILLES ET AUTRES RECIPIENTS
SEALING ELEMENT FOR BOTTLES, BOTTLES AND OTHER CONTAINERS (Machine translation)

Priority: FR19660049090 19660210

Family:	Publication number	Publication date	Application number	Application date
	<u>FR1475794 A</u>	19670407	FR19660049090	19660210

Probable Assignee: VERTEC SARL

Assignee(s):^(std): VERTEC SARL

Assignee(s): VERTEC SOC A RESPONSABILITE LIMITEE ; VERTEC SOCIETE A RESPONSABILITE LIMITEE

Inventor(s):^(std): HONHON DESIRE HENRI BERNARD

International class
^{(IPC 8-9):} B65D41/48 (Advanced/Invention);
B65D41/32 (Core/Invention)

International class
^{(IPC 1-7):} B65D17/16

CPC: B65D41/485 B65D2101/0038

European class: B65D41/48B L65D101/00A3C

[Classification Explorer](#)

Forward Citations: FR2611185, CH667060, BE1002034,

Abstract:

Source: FR1475794A [Source: Claim 1] **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. mettra de detacher la portion annulaire 15 comprise entre les deux rainures. Ceci pose, suivant l'invention, cette capsule A qui ne comporte pas d'appendice axial formant bouchon, comporte, par contre, venues de matiere et en saillie sur la face interne 16 du fond superieur 8, deux lepres annulaires concentriques 17 et 18. Les sections de ces levres par un plan axial radial quel. conque, par exemple celui des figures, sont, d'une part, en forme de triangle a angle aigu et, d'autre part, divergentes. La section de la levre 17 va en s'ecartant vers la gauche a partir du fond 8, cependant que celle de la levre 18 s'ecarte vers la droite. La levre interne 13 a, dans l'exemple, une saillie superieure a celle de la levre externe 17. En outre, 17angle a (fig. 2) forme par leurs faces annulaires concentriques en regard est, a l'etat libre, plus ferme que l'angle b forme par les tangentes ct et dt a la surface 3 du goulot aux points c et d au droit desquels les aretes d'extremite des levres 17 et 18 viendront toucher la tranche 3 du goulot lors de la pose de la capsule A. Il en resulte que les levres 17 et 18 sont obligees de s'ecarter, de s'epanouir, au fur et a mesure de l'enfoncement de la capsule A sur le goulot 1 pour prendre finalement la position de bouchage de la figure 3. On obtient, grace a ces levres, qui sont etroitement appliquees elastiquement sur la tranche 3 du goulot, une etancheite parfaite du flacon bouche, sans aucune penetration de bouchon a l'interieur du goulot et, par consequent, meme si des deformations ou des erreurs dimensionnelles existent sur ce goulot. Pour l'ouverture, a l'aide de la patte l4 on decoupe la bande 15 comprise entre les rainures 12 et 13 et on peut enlever ensuite la portion superieure de la capsule en s'aidant d'une petite patte radiale 19, comme connu en soi (voir fig. 1). Naturellement, l'invention n'est nullement limitee au mode d'execution represente et decrit, qui n'a and e choisi qu'a titre d'exemple. Elle est applicable a tous les bouchons et capsules elastiques, quels soient inviolables ou non. RESCRZE L'invention a principalement pour objets I. Un element de bouchage pour flacon, bouteille ou antre recipient a goulot poun-u d'une tranche superieure plus ou moins convexe, cet element etant remarquable notamment par les caracteristiques suivantes, considerees separement ou en combinaison 1" Sur la face interne de son fond superieur, l'element comporte deux levres annulaires, concentriques, relativement souples, dont les sections par un plan axial radial quelconque divergent a partir de ce fond, ces levres etant destinees a s'appliquer de maniere etanche sur la tranche superieure du goulot du recipient a boucher; 20 L'angle forme a l'etat libre entre lesdites sections des lvres est plus petit que celui forme par les tangentes a la branche du goulot aux points d'application initiale des Sevres sur cette tranche, de telle sorte que celles-ci doivent s'epanouir elastiquement, en s'eeartant l'une de l'autre, lors de l'enfoncement de la capsule, ce qui accroît l,etan- velleite obtenue. II. Un recipient a goulot obture hermetiquement par l'element de bouchage ci-dessus. [Source: Claim 1] ** WARNING ** start of CLMS field may contain end of DESC **. will detach from the annular portion 15 between the two grooves. This causes, according to the invention, this cap A which has no axial appendix forming plug comprises, by cons, which are integral and projecting from the inner face 16 of the upper base 8, two concentric annular leprosy 17 and 18. The sections of the lips by a radial axial plane is. conch, for example that of Figs, are, on the one hand, triangular and has acute angle, on the other hand, divergent. Section 17 of the lip goes away to the left from the bottom 8, while that of the lip 18 deviates to the right. The inner lip 13 has, in the example, has an upper protrusion that of the outer lip 17. In addition, a 17angle (Fig. 2) form by

their concentric annular facing surfaces is, has the libre state, firmer that the angle β formed by the tangents ct dt and the surface 3 of the neck at points c and d in which the right of edges of extremity lips 17 and 18 will touch the tranche 3 of the neck during the installation of the capsule A. This results in the lips 17 and 18 are forced to depart, to flourish, as and extent of pressing the capsule 1 on the neck to finally take the capping position of FIG 3. obtained, thanks to the lips, which are closely applied elastically on Unit 3 of the neck, a perfect tightness of the mouth bottle with no cap penetration on the inside of the neck and, therefore, even if deformations or dimensional errors exist on this neck. For the opening, with the help of the tab 14 is etched band 15 between the grooves 12 and 13 and can then remove the top portion of the cap with the help of a small radial lug 19, as known per se (see fig. 1). Naturally, the invention is not limited to the execution method described and represented, which has chosen and has an example. It is applicable to all the elastic caps and capsules, which are inviolable or not.

RESCRZE The invention mainly objects I. sealing element for bottle, bottle or container has neck poun den-u a superior slice more or less convex, this element being particularly remarkable by the following characteristics, regarded separately or combination 1 "on the inside of his superior merits, the element has two annular concentric lips, relatively soft, whose sections by any radial axial plane diverge from this background, these lips being destinies has to apply watertight manner on the upper edge of the container neck of a butcher; 20 angle form a free state between said sections of drunk is smaller than that formed by the tangents to the branch of the neck to the point of initial application weaned on this portion, so that these need to flourish elastically, by eeartant from one another, during the insertion of the capsule, which increases the, sealing SLIGHTEST INTENTION obtained.

II. A receptacle with a neck sealed by the sealing element above.

162) Family number: 3039861 (US3917063A)

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Title: PACKAGES ENABLING THE EXTEMPORANEOUS PREPARATION OF SUSPENSIONS OR STERILE SOLUTIONS

Priority: EP19870440048 19870730 FR19720021179 19720613 US19880142923 19880112
FR19870010864 19870729 FR19870004195 19870324

Family:

Publication number	Publication date	Application number	Application date
AT70517 E	19920115	AT19870440048T	19870730
BE800782 A	19731212	BE19730132154	19730612
BE800782 A1	19731212	BE19730132154	19730612
DE2329704 A1	19731220	DE19732329704	19730612
DE3775382 D1	19920130	DE19873775382	19870730
EP0283629 A1	19880928	EP19870440048	19870730
EP0283629 B1	19911218	EP19870440048	19870730
ES2028122 T3	19920701	ES19870440048T	19870730
FR2188565 A5	19740118	FR19720021179	19720613
FR2612892 A2	19880930	FR19870004195	19870324
FR2612892 B2	19890908	FR19870004195	19870324
FR2618763 A2	19890203	FR19870010864	19870729
FR2618763 B2	19891215	FR19870010864	19870729
GR3004068 T3	19930331	GR19920400464T	19920318
IT989075 A	19750520	IT19730025235	19730612
LU67780 A	19740710	LU19730067780	19730612
US3917063 A	19751104	US19730367437	19730606
US4986322 A	19910122	US19890418713	19891003

Probable Assignee: SEMCO SOC

Assignee(s):^(std): EMBALLAGE ET DE CONDITIONNEMENT ; SEMCO EMBALLAGE CONDITIO ; SEMCO EMBALLAGE CONDITIONNEMENT ; SEMCO SAM EMBALLAGE CONDITIONN ; SEMCO SOC ; SEMCO

Assignee(s): SEMCO MONACO MC ; SEMCO SAM EMBALLAGE CONDITIONNEMENT ; SOCIETE SEMCO ; SOC D EMBALLAGE ET DE CONDITIONNEMENT S E M C O ; SOCIETE D EMBALLAGE ET DE CONDITIONNEMENT ; SOC D EMBALLAGE ET DE CONDITIONNEMENT S E M C O LE THALES RUE DU STADE PRINC DE MONACO ; SOCIETE D EMBALLAGE ET DE CONDITIONNEMENT S E M C O LE THALES MONACO ; SEMCO EMBALLAGE CONDITIONNEMENT ; SEMCO EMBALLAGE CONDITIO MC ; D EMBALLAGE ET DE CONDITIONNEMENT S E M C O LE SOC ; D EMBALLAGE ET DE CONDITIONNEMENT S E M C O SOC ; D EMBALLAGE ET DE CONDITIONNEMENT SEMCO SOC ; D EMBALLAGE ET DE CONDITIONNEMENT SOC

Inventor(s):^(std): CHIBRET JEAN ; MANNI CHARLES

Inventor(s): MANNI CHARLES PRINCIPAUTE DE MONACO MC ; CHIBRET JEAN F 06400 CANNES FR ; JEAN CHIBRET ; CHARLES MANNI

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

International class
(IPC 8-9): [A61J1/00](#) [A61J1/20](#) [B65D55/02](#) [B65D81/32](#) (Advanced/Invention);
[A61J1/14](#) (Advanced/Non-invention);
[A61J1/00](#) [A61J1/14](#) [B65D81/32](#) (Core/Invention)

International class
(IPC 1-7): [A61J1/00](#) [A61J1/06](#) [B65D25/08](#) [B65D81/00](#) [B65D81/32](#)

CPC: [Y10S215/08](#) [B65D55/02](#) [A61J1/1406](#) [A61J1/2089](#) [B65D81/3211](#) [A61J1/201](#)

European class: [A61J1/00M2](#) [A61J1/20B](#) [B65D55/02](#) [B65D81/32B1](#) [K61J1/00C2](#) [K61J1/14B](#) [K61J1/20A2A](#)

US class:

Classification Explorer

Cited documents: US4872494 A, US4607671 A, US4576211 A, US4573506 A, US3917063 A, US3720523 A, US3651990 A, US3592245 A, US3337039 A, US3206073 A, US2984570 A, US2957609 A, US2798488 A, US2642870 A, FR2427960 A1, FR2302134 A1, FR2160668 A1, EP0138681 A2, DE3152033 A1, DE1913926 A1,

Forward Citations: WO9909931, WO9832672, WO9832671, WO9420385, WO07060193, WO03076301, WO0209636, WO0002795, USD738494, US9688434, US9238541, US9168798, US8839826, US8801698, US8800759, US8740023, US8226627, US8226126, US8022375, US7722822, US7641851, US7635012, US7607460, US7534062, US7425209, US7358505, US7308915, US7074216, US6938798, US6910720, US6890328, US6875203, US6852103, US6655524, US6610040, US6582415, US6343718, US6255101, US6237649, US6164501, US6159192, US6126032, US6113583, US6090092, US6090091, US6071270, US6063068, US6022339, US6019750, US5989237, US5964260, US5902225, US5894870, US5893484, US5833089, US5785044, US5740654, US5601191, US5465768, US5454805, US5454409, US5423793, US5409141, US5409117, US5380315, US5348550, US5342347, US5342346, US5257650, US5240047, US5232029, US5209565, US5207320, US5199808, US5170888, US5152965, US5117875, US5088627, US5064306, US4986322, US4936446, US4858759, US4591049, US4573506, US4559983, US2014358127, US2014319141, US2014183225, US2013220483, US2013079756, US2012305607, US2011240172, US2010140515, US2010016826, US2008300570, US2007289670, US2007289663, US2007224089, US2006237095, US2005238408, US2005137566, US2005135965, US2005133729, US2005088496, US2005005997, US2004241041, US2004199139, US2004050885, US2002123736, KR101322736, FR2935690, FR2893926, FR2758799, FR2758743, FR2745492, FR2682088, FR2655022, FR2318653, ES2078194, ES2036963, EP2096046, EP1009356, EP0954486, EP0945364, EP0945364, EP0793954, EP0503867, EP0430724, EP0345230, EP0345230, EP0246835, EP0246835, EP0246835, DE2433716, DE19812658, DE10211303, DE102004028921, CN105857890, BE1023806, AU732164,

Abstract:

Source: US3917063A A package for the extemporaneous preparation of suspensions or sterile solutions, comprises two flasks at least one of which is of a flexible material and which are adapted respectively to contain one a liquid and the other a solid product to be dissolved in or put into suspension in the liquid at the time of use. Each flask has associated therewith stopper means and the package includes means for temporarily putting the flask interiors into communication with one another through at least one part of said stopper means. Said at least one of the flasks is manually deformable to effect the passage of the liquid from its flask into the flask containing the solid product, and the return into said at least one of said flasks of the resultant solution or suspension.

Title: Tamper evident cap and bottle**Priority:** US19890342732 19890424

Family:	Publication number	Publication date	Application number	Application date
	<u>US4903849 A</u>	19900227	US19890342732	19890424

Probable Assignee: PORTOLA PACKAGING INC**Assignee(s):^(std):** WALLMAN IRWIN**Assignee(s):** CAP SNAP CO ; CAP SNAP CO A CA CORP ; HELLER FINANCIAL INC ; HELLER FINANCIAL INC A DE CORP ; PORTOLA PACKAGING INC**Inventor(s):^(std):** WALLMAN IRWIN**International class** B65D41/48 (Advanced/Invention);
(IPC 8-9): B65D41/32 (Core/Invention)**International class** B65D41/48
(IPC 1-7):**CPC:** B65D41/485 B65D2101/0038 B65D2101/0053**European class:** B65D41/48B L65D101/00A3C L65D101/00A3E**US class:** 215/256 215/305[Classification Explorer](#)**Cited documents:** US4305517 A, US4202455 A, US4166552 A, US4162736 A, US3338446 A, US2573552 A,**Forward Citations:** USD503620, USD447056, US7891510, US7228979, US6536616, US6381928, US6241111, US6187399, US6073809, US6003699, US5971183, US5964362, US5901870, US5862953, US5755346, US5460287, US5395003, US5373955, US5092478, US5036991, US4966292, US2008264894, US2004251228, US2003127414, EP1114781, AU748889, AU686235, AU682096,**Abstract:**

Source: US4903849A A tamper evident push-on type integral synthetic plastic closure cap for an externally beaded container neck, the body of the cap being formed with a thin central disk region, a thicker surrounding rim region, an interior ridged inner skirt provided with an interior sloping wall portion descending from the inner edge of the rim region, and an outer skirt descending from the outer edge of the rim region, the outer skirt being provided with an arcuate, buttressed lifting tab extending horizontally from a portion of the outer skirt, two inward projecting ribs on the internal side of the skirt, a circumferential weakened region in the skirt disposed between the ribs separating the skirt into distinct upper and lower regions and a descending tear tab projecting downwardly from the lower edge of the lower region of said skirt so that lifting of the tab will break the wall of the skirt and separate the skirt at the weakened region to detach the lower skirt and rib from the remainder of the cap by tearing along the circumferential weakened region.

Title: PLASTICS STOPPERS**Priority:** GB19710057129 19711208

Family:	Publication number	Publication date	Application number	Application date
	<u>GB1416865 A</u>	19751210	GB19710057129	19711208

Probable Assignee: KEARNEY P**Assignee(s):^(std):** KEARNEY P

International class B65D39/00 B65D39/04 (Advanced/Invention);
^{(IPC 8-9):} B65D39/00 (Core/Invention)

International class B65D39/00 B65D53/02
^{(IPC 1-7):}

CPC: B65D39/00 B65D39/04 B65D2539/003**European class:** B65D39/00 B65D39/04 L65D339/02 L65D539/00Y2[Classification Explorer](#)**Forward Citations:** GB2343444,**Abstract:**

Source: GB1416865A 1416865 Plastics stopper P KEARNEY 8 Dec 1972 [8 Dec 1971] 57129/71 Heading B8T A hollow plastics stopper 10 made of equal parts of high and low density polyethylenes has a cylindrical body and an end flange 18. The external wall of the body carries four equally spaced flexible annular flanges 20-23 of varying thickness and diameter. Flange 23 remote from end flange 18 enters the container neck first, and is of such a diameter as to wipe the inner surface of the neck. Flange 22 with a slightly larger diameter, enters the neck next and completes the wiping action. The third and fourth flanges 23, 24 which have thickened roots for strength (25, 26) Fig. 1 (not shown) have larger diameters than flange 22 and grip the inner neck of the container. The distances between the flanges is such that the flexible ends do not touch one another in use. Stopper 10 may be used in conjunction with a liquor dispenser 32 and an opaque stopper shield 35 which consists of an opaque body 36, a truncated cone end section 37 and a retaining flange 38, and is assembled by placing the shield 35 on the dispenser 32 with a washer 33 in position and placing stopper 10 over the dispenser pipe 31 and pushing the assembly on to the open neck of a liquor bottle 30.

165) Family number: 32509836 (WO06003284A1)

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Title: METHOD FOR MAKING A STOPPER CONSISTING AT LEAST OF CORK, AND RESULTING STOPPER**Priority:** FR20040006123 20040607

Family:	Publication number	Publication date	Application number	Application date
	<u>FR2871087 A1</u>	20051209	FR20040006123	20040607
	<u>FR2871087 B1</u>	20070105	FR20040006123	20040607
	<u>WO06003284 A1</u>	20060112	WO2005FR01372	20050606

Probable Assignee: BARANGE FABRIQUE DE BOUCHONS S**Assignee(s):^(std):** BARANGE DE BOUCHONS E FAB ; BARANGE DE BOUCHONS S FAB ; BARANGE FABRIQUE DE BOUCHONS E ; LITOUX DESRUES FRANCOIS ; BARANGE FABRIQUE DE BOUCHONS S**Assignee(s):** ETS BARANGE FABRIQUE DE BOUCHONS ; ETABLISSEMENTS BARANGE FABRIQUE DE BOUCHONS SOCIETE ANONYME ; ETABLISSEMENTS BARANGE FABRIQUE DE BOUCHONS SOCIET ; BARANGE DE BOUCHONS SOC ANONYME ETS FAB ; BARANGE DE BOUCHONS ETS FAB ; BARANGE DE BOUCHONS FAB ETS**Inventor(s):^(std):** LITOUX DESRUES FRANCOIS**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 KP KR KZ LC LK LR LS LT LU LV 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**International class**
(IPC 8-9): [B27J5/00 B65D39/00 B67B1/03](#) (Advanced/Invention);
[B27J5/00 B65D39/00 B67B1/00](#) (Core/Invention)**International class**
(IPC 1-7): [B27J5/00 B65D39/00 B67B1/03](#)**CPC:** [B27J5/00 B65D39/0058 B67B1/03](#)**European class:** [B27J5/00 B65D39/00G1 B67B1/03](#)[Classification Explorer](#)**Cited documents:** GB2347407 A1, GB190917478 A, GB190108829 A, GB190014710 A, FR2786753 A1, FR1115234 A,**Forward Citations:** WO09145652, FR3049272, ES2331684, EP3222548,**Abstract:**

A method for making a stopper consisting at least of cork, and suitable for sealing a bottle neck, wherein at least one sealing portion of the stopper is radially compressed to exert a mechanical force thereon that is substantially equal to a mechanical force exerted during a bottle neck sealing process, and cause plastic deformation of said portion so as to achieve a sealing portion having a diameter smaller than the original stopper diameter, thereby forming a shoulder that defines a contact surface engageable with the upper end of the bottle neck.

0) MX2009004933A – STOPPER INTEGRAL WITH A BOTTLE FOR PREVENTING S...

166) Family number: 48340495 (MX2009004933A)

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Title: STOPPER INTEGRAL WITH A BOTTLE FOR PREVENTING SAID BOTTLES FROM BEING REFILLED.

Priority: MX20090004933 20090507

Family:	Publication number	Publication date	Application number	Application date
	<u>MX2009004933 A1</u>	20101116	MX20090004933	20090507

Probable Assignee: VIZCARRA CARLOS BARTNING RODRIGUEZ

Assignee(s):^(std): VIZCARRA CARLOS BARTNING RODRIGUEZ

Assignee(s): CARLOS BARTNING RODRIGUEZ VIZCARRA

Inventor(s):^(std): VIZCARRA CARLOS BARTNING RODRIGUEZ

Inventor(s): CARLOS BARTNING RODRIGUEZ VIZCARRA

International class B65D59/02 (Advanced/Invention)
(IPC 8-9):

[Classification Explorer](#)

Abstract:

THE PRESENT INVENTION REFERS TO THE TECHNICAL FIELD OF BOTTLE STOPPERS, MAINLY TO STOPPERS FOR PREVENTING BOTTLES FROM BEING REFILLED WITH ADULTERATED BEVERAGES AFTER THE ORIGINAL BEVERAGE HAS BEEN CONSUMED. THE STOPPER OF THE PRESENT INVENTION INCLUDES AN ELEMENT THAT IS ATTACHED TO THE BOTTLE IN A REMOVABLE MANNER, SO THAT THE BOTTLE WOULD BE BROKEN IN CASE THE STOPPER IS REMOVED, THEREBY AVOIDING REFILLING THE BOTTLES WITH ADULTERATED BEVERAGES SINCE ONCE THE CONTENT OF THE BOTTLE IS CONSUMED IT MUST BE DISPOSED OF ALONG WITH THE CAP; THE STOPPER COMPRISES A GASKET LOCATED AT THE EDGE OF THE BOTTLE NECK, A BAND FOR PERMANENTLY ATTACHING THE GASKET TO THE BOTTLE; A DRIVING DISC WITHIN THE GASKET; AN OBTURATING STRUCTURE UNDER THE DRIVING DISC AND IN CONTACT THEREWITH; A RETENTION CARRIER FOR HOUSING THE OBTURATING DEVICE WHICH IS FIT IN AN HERMETICAL MANNER TO THE INNER PORTION OF THE BOTTLE NECK, ALSO INCLUDING A COVER FIXED AT THE UPPER PORTION OF THE GASKET FOR OBTAINING AN HERMETICAL SEALING ACTION.

Title:	Container for a bottle			
Priority:	BE20050000561 20051121		BE20050000561 20051121	
Family:	Publication number	Publication date	Application number	Application date
	AT410368 E	20081015	AT20060124394T	20061120
	BE1016855 AD	20070807	BE20050000561	20051121
	DE602006003046 D1	20081120	DE200660003046T	20061120
	EP1787915 A1	20070523	EP20060124394	20061120
	EP1787915 B1	20081008	EP20060124394	20061120
Probable Assignee:	SMURFIT KAPPA CARTOMILLS			
Assignee(s):^(std):	SMURFIT KAPPA CARTOMILLS			
Inventor(s):^(std):	UYTTERHOEVEN TONY ; UYTTERHOEVEN TONY JEANNOT			
Agent(s):	CLAEYS PIERRE ET AL			
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 MK NL PL PT RO SE SI SK TR YU			
International class (IPC 8-9):	B65D5/50 (Advanced/Invention); B65D5/50 (Core/Invention)			
International class (IPC 1-7):	B65D5/50 B65D5/50			
CPC:	B65D5/18 B65D5/5023 B65D5/5059 B65D2301/10			
European class:	B65D5/18 B65D5/50C B65D5/50D4G L65D301/10			
	Classification Explorer			
Cited documents:	US2939622 A, US2807402 A, US1445772 A, GB216042 A, FR2681579 A1, FR1413174 A, EP0166827 A1, DE9314930 U, DE9314930,			
Forward Citations:	WO16042477, WO15086515, US2016311594, GB2478575, GB2461568, FR2976263, EP2738116, EP2532598, CN105173311,			

Abstract:

Source: EP1787915B1 The container is made from a flat panel, cut and folded to accommodate a bottle (20) with wedging sections for the bottle base and neck. The cut-out panel is folded to create two vertical side walls (2, 2') and a raised base (3b). The wedging section for the base of the bottle comprises hole (5) in the raised base with its edge cut to form a series of flexible tabs. The wedging section for the bottle neck consists of a similar but smaller hole (6) in a separate square (4) that is attached by lugs (8, 8') to slots (7, 7') in the upper ends of the side walls at heights to suit different bottles. Variants of the design can have sides made from folded panel sections for extra protection.

0) GB2133394A – IMPROVEMENTS RELATING TO CLOSURES

168) Family number: 9218366 (GB2133394A)

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Title: Improvements relating to closures

Priority: GB19820035612 19821214

Family:	Publication number	Publication date	Application number	Application date
	<u>GB2133394 A1</u>	19840725	GB19820035612	19821214

Probable Assignee: METAL CLOSURES GROUP PLC

Assignee(s):^(std): METAL CLOSURES GROUP PLC

Inventor(s):^(std): HAINES PETER REGINALD

Inventor(s): PETER REGINALD HAINES

International class
(IPC 8-9): B65D41/04 (Advanced/Invention);
B65D41/04 (Core/Invention)

International class
(IPC 1-7): B65D41/04 B65D53/00

CPC: B65D41/0428

European class: B65D41/04B2

[Classification Explorer](#)

Cited documents: GB2120219 A1, GB1532767 A, EP0029274 A2, EP0004500 A2,

Forward Citations: US9038851, US7651004, US7014060, US6889857, US5161707, US4971213, US2012234850, GB2145070, AT410202,

Abstract:

Source: GB2133394A A closure for application to the screw-threaded neck of a container is moulded in one piece from a resilient plastics material and has a top 11 with a dependent skirt 12 screw-threaded on its internal surface. Spaced below the top 11 the skirt has an inwardly projecting rib 14. An outwardly projecting rib 17 is connected to the top 11 and forms with rib 14 a downwardly open channel for receiving the top portion of the neck of the container. Ribs 20 are formed on the underside of the top 11 and project downward into the channel to form a seal with the top edge of the neck. In a variant, rib 14 is replaced by two, undercut, triangular section ribs (25, 26, Fig. 2) and rib 17 has two similar ribs (28, 29) at the other side of the channel.

169) Family number: 10659390 (EP0345415A1)

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Title: EXPANDED SURFACE ROLLER BOTTLE.

Priority: EP19890102547 19890215 SG19940001098 19940808 SG19940091098 19940808
US19880204796 19880610

Family:	Publication number	Publication date	Application number	Application date
	<u>AT91148 E</u>	19930715	AT19890102547T	19890215
	<u>DE68907384 D1</u>	19930805	DE19896007384	19890215
	<u>DE68907384 T2</u>	19931014	DE19896007384T	19890215
	<u>EP0345415 A1</u>	19891213	EP19890102547	19890215
	<u>EP0345415 B1</u>	19930630	EP19890102547	19890215
	<u>HK91394 A</u>	19940909	HK19940000913	19940901
	JP1932689 C3	19950526	JP19890149272	19890612
	<u>JP2039881 A2</u>	19900208	JP19890149272	19890612
	<u>JP6061256 B4</u>	19940817	JP19890149272	19890612
	<u>SG9491098 A</u>	19941125	SG19940091098	19940808

Probable Assignee: BECTON DICKINSON CO**Assignee(s):**^(std): BECTON DICKINSON CO**Assignee(s):** BECTON DICKINSON AND CO ; BECTON DICKINSON AND CO FRANKLIN LAKES N J US ; BECTON DICKINSON AND COMPANY**Inventor(s):**^(std): CHU DANNY I HSI ; CHU I HSI DANNY ; TYNDORF TADEUSZ A ; TADEUSU EI TAINDORUFU ; IISHI DANII CHIYUU**Inventor(s):** CHU I HSI DANNY WEST ORANGE NJ US ; DANNY I HSI CHU ; TADEUSZ A TYNDORF**Designated states:** AT BE CH DE ES FR GB GR IT LI LU NL SE

International class
(IPC 8-9): B65D1/02 C12M1/24 C12M3/00 C12M3/04 (Advanced/Invention);
B65D1/02 C12M1/24 C12M3/00 C12M3/04 (Core/Invention)

International class
(IPC 1-7): B65D1/02 C12M1/24 C12M3/00 C12M3/04

CPC: C12M23/02 C12M25/06 C12M27/12 B65D1/0223 B65D2501/0027 C12M27/20**European class:** B65D1/02D C12M27/12 C12M27/20[Classification Explorer](#)**Cited documents:** US4317886 A, US4289248 A, US3853712 A, EP0320348 A1, DE2062684 A1,**Forward Citations:** WO04031772, US6444459, US6150159, US6130080, US5512480, US5272084, GB2334965, GB2334965, GB2304732, FR2666094, EP1179482, EP0947580, EP0803443, EP0803443, EP0614967, EP0552412,**Abstract:**

Source: EP0345415A1 A roller bottle is provided which incorporates a greatly increased cell-growth surface area, while at the same time being of simple construction which structure may be formed inexpensively by blow-molding in large quantities using mass production techniques. The above is achieved by imparting to the body of the bottle a pleated or corrugated surface axially or longitudinally of the bottle. The resulting internal surfaces of the pleats provide an approximately 60 to 70 percent increase of active surface area of a conventional roller bottle for cell growth, without the need for any insertable devices or expensive assembly operations.

0) GB780379A – IMPROVEMENTS IN CAPSULES FOR SEALING CONTAINERS...

170) Family number: 20407045 (GB780379A)

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Title: Improvements in capsules for sealing containers

Priority: 19541113

Family:	Publication number	Publication date	Application number	Application date
	FR1115987 A	19560502		19541113
	GB780379 A	19570731	GB19550032467	19551114

Probable Assignee: CHARLES MICHEL MARTIN

Assignee(s):^(std): CHARLES MICHEL MARTIN

Inventor(s):^(std): MARTIN CHARLES MICHEL

International class
(IPC 8-9): [B65D41/34](#) [B65D41/48](#) (Advanced/Invention);
[B65D41/32](#) [B65D41/34](#) (Core/Invention)

International class
(IPC 1-7): [B65D41/40](#) [B65D41/44](#)

CPC: [B65D41/3442](#) [B65D41/485](#) [B65D2101/0053](#)

European class: [B65D41/34D](#) [B65D41/48B](#) [L65D101/00A3E](#)

[Classification Explorer](#)

Forward Citations: US5012942, GB2145070, FR2237813, FR2237813,

Abstract:

Source: GB780379A 780,379. Bottle, c. capsules. MARTIN, C. M. Nov. 14, 1955 [Nov. 13, 1954], No. 32467/55. Class 125(3). A capsule 1, for a container, moulded in plastic has internally discontinuous retaining projections 2 which engage beneath an external shoulder on the container neck. Longitudinal ribs 3 are provided externally opposite projections 2 and the crown 8 may have an internal sealing rib 10. A tearing tongue 11 is defined by grooves terminating at a horizontal circular groove or head 13. In a modification, Fig. 4, the capsule has an internal or external rib 7. In other modifications the projections 2 have the form of spikes or partial screw threads.

171) Family number: 20682849 (WO0002796A2)

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Title: APPARATUS FOR DISPENSING A FLUID FROM CONTAINER MEANS

Priority: EP20000949320 20000712 IT1998BO00349 19980602 IT1998MO00150 19980710
 IT1998MO00150 19980710 IT1998MO00151 19980710 IT1998MO00151 19980710
 WO2000EP06637 20000712 WO1999EP03830 19990602 WO1999EP03830 19990602
 WO1999EP04885 19990712

Family:

Publication number	Publication date	Application number	Application date
<u>AU199945052 A1</u>	20000105	AU19990045052	19990602
<u>AU199945052 A5</u>	20000105	AU19990045052	19990602
<u>AU199950363 A1</u>	20000201	AU19990050363	19990712
<u>AU200062726 A1</u>	20010130	AU20000062726	20000712
<u>AU200062726 A5</u>	20010130	AU20000062726D	20000712
<u>EP1196348 A1</u>	20020417	EP20000949320	20000712
<u>IT1304815 B1</u>	20010405	IT1998MO00151	19980710
<u>IT1305495 B1</u>	20010509	IT1998MO00150	19980710
<u>IT1306258 B1</u>	20010604	IT1998BO00349	19980602
<u>ITBO980349 A1</u>	19991202	IT1998BO00349	19980602
<u>ITMO980150 A1</u>	20000110	IT1998MO00150	19980710
<u>ITMO980151 A1</u>	20000110	IT1998MO00151	19980710
<u>WO0002796 A2</u>	20000120	WO1999EP04885	19990712
<u>WO0002796 A3</u>	20000420	WO1999EP04885	19990712
<u>WO0104042 A1</u>	20010118	WO2000EP06637	20000712
<u>WO9965819 A2</u>	19991223	WO1999EP03830	19990602
<u>WO9965819 A3</u>	20000427	WO1999EP03830	19990602
<u>WO9965819 C2</u>	20000323	WO1999EP03830	19990602

Probable Assignee: WAX TECHNOLOGY S A S DI RUGGER

Assignee(s):^(std): CERA RUGGERO ; WAX TECHNOLOGY S A S ; WAX TECHNOLOGY S A S DI RUGGER ; WAX TECHNOLOGY S A S DI RUGGERO CE ; WAX TECHNOLOGY SAS DI RUGGERO ; WAX TECHNOLOGY S A S DI RUGGERO CERA E C ; WAX TECHNOLOGY SAS DI RUGGERO CERA E C ; WAX TECHNOLOGY S A S DI RUGGERO CERA AND C

Assignee(s): WAX TECHNOLOGY SAS DI RUGGERO CERA EC ; WAX TECHNOLOGY SAS DI RUGGERO CERA AND C ; WAX TECHNOLOGY SAS

Inventor(s):^(std): CERA RUGGERO ; RUGGERO CERA

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 CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class
 (IPC 8-9): B65D83/00 B67D3/04 (Advanced/Invention);
B65D83/00 B67D3/00 (Core/Invention);
A61H F16M (Subclass/Invention)

International class
 (IPC 1-7): A61H B65D83/00 B67D3/04 F16M

CPC: B67D3/048 B67D3/043 B67D3/044

European class: B67D3/04D B67D3/04D1 B67D3/04F1

[Classification Explorer](#)

Cited documents: WO9014995 A1, US5743294 A, US4946079 A, US4802610 A, EP0371267 A1, EP0112938 A2, DE8809596 U, DE8809596,

Forward Citations: US7163349, US7144173, US6948873, US6910823, US6854911, US6814519, US6669391, US6663306, US6612344, US6595437, US6491069, NL1032658, EP1190985,

Abstract:

Apparatus (1; 101; 201; 301; 401) for dispensing a fluid from container means (2), comprising nozzle means (3; 103; 203; 303; 403) provided with first conduit means (4; 104; 204; 304; 404) for dispensing said fluid, second conduit means (5; 105; 205; 305; 405) for introducing air into said container means (2), at least a portion of said first conduit means (4; 104; 204; 304; 404) and said second conduit means (5; 105; 205; 305; 405) is parallel to an axis of a spout (14; 210) of said container means (2) and an axis of said nozzle means (3; 103; 203; 303; 403). A method for dispensing a fluid enclosed in container means (2) comprising: discharging said fluid from said container means (2) by way of dispensing conduit means (4; 104; 304; 404) and simultaneously introducing air into said container means (2) through air introduction conduit means (5; 105; 305; 405); interrupting said discharging and said introducing by way of closure means (6a; 106a; 306; 406) for closing said dispensing conduit means (104; 304; 404) and closure means (6b; 106b; 306; 406) for closing said air introduction conduit means (105; 305; 405), said discharging, said introducing and said interrupting are performed by acting simultaneously on said closure means (6a; 106a; 306; 406) for closing said dispensing conduit means (4; 104; 304; 404) and on said closure means (6b; 106b; 306; 406) for closing said air introduction conduit means (5; 105; 305; 405).

172) Family number: 20902630 (US3399796A)

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Title: Safety stopper for pharmaceutical bottles and flasks**Priority:** FR19660057981 19660418

Family:	Publication number	Publication date	Application number	Application date
	DE1566553 A1	19700212	DE19671566553	19670418
	DE1566553 B2	19730524	DE19671566553	19670418
	DE1566553 C3	19740124	DE19671566553	19670418
	FR1491263 A	19670811	FR19660057981	19660418
	GB1179296 A	19700128	GB19670017515	19670417
	US3399796 A	19680903	US19670631077	19670414

Probable Assignee: STEINER DIPL ING MAURICE**Assignee(s):**^(std): STEINER DIPL ING MAURICE ; STEINER MAURICE**Assignee(s):** STEINER MAURICE PARIS ; MAURICE STEINER**Inventor(s):**^(std): MAURICE STEINER ; MAURICE STEINER DIPL ING ; STEINER MAURICE**Inventor(s):** STEINER MAURICE PARIS**International class**
(IPC 8-9): [B65D50/04](#) (Advanced/Invention);
[B65D50/00](#) (Core/Invention)**International class**
(IPC 1-7): [A61J1/00](#) [A61J1/06](#) [B65D17/00](#) [B65D41/04](#) [B65D41/34](#) [B65D55/02](#) [B65D55/12](#)
[B65D85/56](#)**CPC:** [B65D50/046](#)**European class:** [B65D50/04F2](#)**US class:** [215/216](#) [215/217](#) [215/221](#) [215/9](#)[Classification Explorer](#)**Cited documents:** US3233769 A, US3185333 A, US3182840 A, US3019931 A, US2827193 A, US2752060 A,**Forward Citations:** USD631351, USD525523, USD525125, USD449991, USD426159, USD421909, USD421389, USD421223, USD419451, USD418419, US8444610, US7111746, US7036672, US6854613, US6640987, US6343705, US6296130, US6210369, US6161711, US6152315, US5908125, US5884787, US5836466, US5687863, US5603421, US5564580, US5562218, US5460281, US5383564, US5230433, US5197617, US5186344, US5046629, US5038454, US4511049, US4434903, US4331247, US4209101, US4190169, US4180174, US4067621, US4007850, US3984021, US3870187, US3869057, US3858740, US3776406, US3773203, US3603470, US3514003, US2010145287, US2005072124, US2004222181, FR2541239, DE4330703,**Abstract:**

Source: GB1179296A 1,179,296. Caps for bottles. M. STEINER. 17 April, 1967 [18 April, 1966], No. 17515/67. Heading B8T. An internally screw-threaded safety cap for a bottle has a skirt including a portion deformable parallel to the axis of the cap and carrying on its inside a screw-thread segment aligned with the main screw-thread only when the portion has been deformed axially. As shown, a resilient plastics cap 1 has main internal screw-threads 3 which are engaged with the usual threads around a bottle neck. The lower ends or segments 11 of the threads 3 are formed on two diametrically opposite strips 5 around the cap skirt 4. In the unstressed normal condition of the strips 5, the thread portions 11 are offset by half-a-pitch from the main thread portions 3. Thus when the cap 1 has been screwed home on the bottle neck, the end threads 11 latch beneath the screw-thread around the bottle neck and prevent its being unscrewed. When the bottle is to be opened, lugs 8 are raised by two fingers of the operator, and stretching the strips 5, and aligning the thread segments 11 with the main screw-threads 3. The cap may then be readily rotated. Initial removal of the cap 1 is prevented by an obstrucuter plug having the same shape as and inserted in one of two recesses 10 above lugs 9 on the strips 5 carrying the threads 11. The obstrucuter plug has a tab by which it is torn out, to permit raising of the associated lug 8 for opening the bottle.

0) US2004238479A – STOPPER FOR BOTTLE

173) Family number: 31370584 (US2004238479A)

© PatBase

Title: STOPPER FOR BOTTLE

Priority: US20020295771 20021115

Family:	Publication number	Publication date	Application number	Application date
	<u>US2004238479 AA</u>	20041202	US20020295771	20021115

Probable Assignee: TAC

Assignee(s):^(std): ARROYO VINCENT ; CASWELL JOHNNY E

Assignee(s): TAC

Inventor(s):^(std): ARROYO VINCENT ; CASWELL JOHNNY E

International class
(IPC 8-9): B65D39/00 (Advanced/Invention);
B65D39/00 (Core/Invention)

International class
(IPC 1-7): B65D39/0 B65D39/00

CPC: B65D39/0058 B65D2251/205

European class: B65D39/00G1 L65D251/20B

US class: 215/364

[Classification Explorer](#)

Cited documents: US844400 A, US706634 A, US6695997 BB, US6613406 BA, US6378716 BA, US6355320 BA, US6328174 BA, US6316511 BA, US6223937 BA, US6221451 BA, US6153275 A, US5944208 A, US5904965 A, US5855287 A, US5662233 A, US4834234 A, US4687115 A, US4664275 A, US3599820 A, US301139 A, US2002014468 AA,

Forward Citations: WO10028243, WO06079458, WO06079458, US9417165, US9388558, US9199768, US8893321, US8807363, US8714383, US8714382, US8672160, US7543978, US2017073122, US2015330880, US2015060389, US2013043215, US2011036805, US2011017698, US2009039052, US2008244825, US2008219092, US2007163989,

Abstract:

Source: US2004238479A A stopper for sealing a bottle comprising a core having a top surface, a bottom surface and one or more side surfaces and an enclosure that covers the bottom surface and the one or more side surfaces of the core. The seal between the stopper and the inner surface of the neck of the bottle is formed with a radially protruding sealing member that circumferentially engages the enclosure. The core may be made of materials selected from cork, synthetic cork, material that simulates cork or from combinations thereof. The core may also be made of other materials that may create a pleasing design for a particular application or need. The sealing member may be an O-ring that may be received by an O-ring gland formed in the enclosure or the sealing member may be injection molded with the enclosure, wherein the sealing member and the enclosure form an integral piece.

174) Family number: 55762853 (US2015151878A)

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Title: COMPOSITIONS FOR CONTAINERS AND OTHER ARTICLES AND METHODS OF USING SAME

Priority: AU20130299578 20130808 AU20170200919 20170210 US20120681434P 20120809
WO2013US54132 20130808 US20150616175 20150206

Family:	Publication number	Publication date	Application number	Application date
	<u>AU2013299578 AA</u>	20140213	AU20130299578	20130808
	<u>AU2017200919 AA</u>	20170302	AU20170200919	20170210
	<u>AU2017200919 BB</u>	20170907	AU20170200919	20170210
	<u>CA2879424 AA</u>	20150115	CA20132879424	20130808
	<u>CN104540907 A</u>	20150422	CN201380042632	20130808
	<u>EP2882819 A1</u>	20150617	EP20130827304	20130808
	<u>EP2882819 A4</u>	20160420	EP20130827304	20130808
	<u>ID201604927 A</u>	20160826	ID2015P0001363	20130808
	<u>IN00445DN2015 A</u>	20150619	IN2015DN00445	20150119
	<u>JP2015527455 T2</u>	20150917	JP20150526705T	20130808
	<u>KR20150041625 A</u>	20150416	KR20157003148	20130808
	<u>MX2015001646 A1</u>	20150408	MX20150001646	20130808
	<u>RU2015102516 A</u>	20160927	RU20150102516	20130808
	<u>RU2618704 C2</u>	20170511	RU20150102516	20130808
	<u>US2015151878 AA</u>	20150604	US20150616175	20150206
	<u>WO14025997 A1</u>	20140213	WO2013US54132	20130808

Probable Assignee: VALSPAR SOURCING INC**Assignee(s):**^(std) VALSPAR SOURCING INC ; VELSPAR SORSING INK**Assignee(s):** VON MAIER MARK S ; EVANS RICHARD H ; NIEDERST JEFFREY ; O BRIEN ROBERT M ; ROMAGNOLI KEVIN**Inventor(s):**^(std) VON MAIER MARK S ; ROMAGNOLI KEVIN ; O BRIEN ROBERT M ; NIEDERST JEFFREY ; EVANS RICHARD H ; OBRIEN ROBERT M ; MAIER MARK S VON**Inventor(s):** KEVIN ROMAGNOLI ; JEFFREY NIEDERST ; MARK S VON MAIER ; ROBERT M O BRIEN ; RICHARD H EVANS**Agent(s):** WYNNE'S PATENT AND TRADE MARK ATTORNEYS; SMART AND BIGGAR; VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; MATSUMOTO KEN; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; DEMASTER ANDREW A**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 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**International class**
(IPC 8-9): B05D7/14 B32B15/08 B32B27/36 B65D1/12 B65D25/14 B65D81/34 C08G59/14 C08G65/26 C09D163/00 C09D163/02 C09D171/00 C09D171/10 C09D171/12 C09D7/12 (Advanced/Invention)**CPC:** B65D25/14 B65D81/34 C09D171/12 Y10T428/1355 B65D1/12 C09D5/03 C08G65/2612 C09D171/00 C09D163/00 B32B15/08 B32B27/36**US class:** 206/524.3 428/35.8[Classification Explorer](#)**Cited documents:**

WO9526997 A1, WO11130671 A2, WO10118356 A1, WO10118349 A1, US5994462 A, US4517322 A, US4285847 A, US4212781 A, US2007087146 AA, US2005215670 AA, US2005196629 AA, US2003171527 AA, RU2369624 C2, JP7138502 A2, JP3484546 B2,

Forward Citations: US9409219, US2013206756,

Abstract:

Source: US2015151878A This invention provides a polymer, which is preferably a polyether polymer. The polymer may be used in coating compositions. Containers and other articles comprising the polymer and methods of making such containers and other articles are also provided. The invention further provides compositions including the polymer (e.g., powder coatings), which have utility in a variety of coating end uses, including, for example, valve and pipe coatings.

175) Family number: 737694 (GB1267887A)

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Title: IMPROVEMENTS IN OR RELATING TO APPLIANCES FOR DISPENSING MATERIAL FROM A CONTAINER**Priority:** GB19700040185 19700820

Family:	Publication number	Publication date	Application number	Application date
	<u>GB1267887 A</u>	19720322	GB19700040185	19700820

Probable Assignee: BAVNSFELT HANS**Assignee(s):^(std):** BAVNSFELT HANS**Assignee(s):** HANS BAVNSFELT**Inventor(s):^(std):** BAVNSFELT HANS**Inventor(s):** HANS BAVNSFELT

International class B65D47/12 (Advanced/Invention);
 (IPC 8-9): B65D47/12 (Core/Invention)

International class B65D83/00
 (IPC 1-7):

CPC: B65D47/122**European class:** B65D47/12B[Classification Explorer](#)**Forward Citations:** WO9001450, US4463878, GB2147886, FR2627752, FR2555551, AT394536,**Abstract:**

Source: GB1267887A 1,267,887. Container closures. H. BAVNSFELT. 20 Aug., 1970, No. 40185/70. Heading B8T. An appliance for dispensing liquids, powder or paste comprises a bottle 1, on to which a part 5 is screwed. A shoulder 15 on the part 5 serves to hold the flange 14 of a tubular member 13 against the neck 2 of the bottle 1. The member 13 has an aperture 18 and a narrow spout 17 for dispensing the contents of the bottle 1. The part 5 is provided with a threaded portion 7 by means of which a cap 9 can be fitted over the member 13. The lower threaded portion 4 of the part 5 abuts a flange on the bottle 1 when the appliance is firmly in position, but in another embodiment (Fig. 6, not shown) the bottom of part 5 is provided with internal projections (22) which clip over the flange (23). The member 13 may be of plastics.

176) Family number: 5334559 (GB2219570A)

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Title: NON-REFILLABLE CLOSURES FOR CONTAINERS**Priority:** MX19880011848 19880610

Family:	Publication number	Publication date	Application number	Application date
	AR243464 A1	19930831	AR19880312662	19881209
	BRPI8806745 A	19900731	BR1988PI06745	19881220
	ES2011984 AF	19900216	ES19890000208	19890123
	FR2632612 A1	19891215	FR19880016335	19881212
	FR2632612 B1	19920904	FR19880016335	19881212
	GB2219570 A1	19891213	GB19880029628	19881220
	GB2219570 B2	19920219	GB19880029628	19881220
	GB8829628 A0	19890215	GB19880029628	19881220
	IT1224017 A	19900926	IT19880068136	19881221
	IT8868136 A0	19881221	IT19880068136	19881221
	MX171075 B	19930929	MX19880011848	19880610
	PT90801 A	19891229	PT19890090801	19890609

Probable Assignee: GRUPO STEVI SA**Assignee(s):**^(std): GRUPO STEVI SA ; GRUPP STEVI SA ; MEXICO D F MESSICO**Assignee(s):** GRUPO STEVI S A**Inventor(s):**^(std): STETA TORRES GIULLERMO H ; STETA TORRES GUILLERMO H ; TORRES GUILLERMO H STETA**Inventor(s):** GUILLERMO H STETA TORRES**International class**
(IPC 8-9): [B65D49/02](#) (Advanced/Invention);
[B65D49/00](#) (Core/Invention)**International class**
(IPC 1-7): [B65D39/0](#) [B65D39/08](#) [B65D41/04](#) [B65D47/24](#) [B65D49/02](#) [B67B1/06](#)**CPC:** [B65D49/02](#)**European class:** [B65D49/02](#)[Classification Explorer](#)**Cited documents:** US4497415 A, US4382520 A, GB2176467 A1, GB2024147 A1, FR2131984 A1,**Forward Citations:** WO9212908, WO04067387, WO04067387, RU2503601, GB2267694, FR2666307, ES2048039, EP1950144, EP1816085, EP1238919, EA012670, EA007834,**Abstract:**

Source: GB2219570A A non-refillable closure for a bottle comprises a cylindrical tube E which fits around and is secured to the outer surface of the neck of the bottle F, a valve seat D which forms a seal with the neck of the bottle, a valve member C which forms a seal with the valve seat, a pourer 13 connected to the tube E and extending around the valve seat D and accommodating the valve member C and an internally screw threaded cap A which is screwed onto the pourer B. The tube E has internal projections (45, Figure 6) which cooperate with projections (39, Figure 5) on the valve seat D and prevent relative rotation thereof. The valve seat D also has upstanding projections (40, Figure 5) which extend into the gaps between radial webs (8, Figure 3) integral with the interior of the pourer 13 and prevent relative rotation thereof.; Splines (3, Figure 2) on the cap engage splines in a top recess of the valve member so that when cap is screwed onto pourer the valve member is pressed into contact with the valve seat and when the cap is unscrewed the valve member rotates therewith and moves away from the valve seat therefore avoiding the valve member sticking to the valve seat.

0) GB1197189A – TEARABLE CLOSURE

177) Family number: 715742 (GB1197189A)

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Title: Tearable Closure

Priority: GB19670030296 19670630

Family:	Publication number	Publication date	Application number	Application date
	GB1197189 A	19700701	GB19670030296	19670630

Probable Assignee: CONTARDI AGOSTINO

Assignee(s):^(std): CONTARDI AGOSTINO

Assignee(s): AGOSTINO CONTARDI

Inventor(s):^(std): CONTARDI AGOSTINO

Inventor(s): AGOSTINO CONTARDI

International class [B65D55/02](#) (Advanced/Invention);
(IPC 8-9); [B65D55/02](#) (Core/Invention)

International class [B65D17/06](#)
(IPC 1-7);

CPC: [B65D55/024](#)

European class: [B65D55/02F](#)

[Classification Explorer](#)

Forward Citations: US4185747,

Abstract:

Source: GB1197189A 1,197,189. Container closures. A. CONTARDI. 30 June, 1967, No. 30296/67. Heading B8T. A snap-on closure, particularly for small monodose bottles, comprises a substantially cylindrical portion 10 closed at its upper end by a disc 10¹ of larger diameter, the parts 10, 10¹ being connected by a peripheral region 11 having a line of weakness 12 around all or part of its circumference. The closure is opened by tearing the disc 10¹ so that the cap cannot be reused. The inner surface of the portion 10 has grooves 14 designed to engage external annular ribs 15 on the neck of a bottle 16. The grooves and ribs may be of saw-tooth shape, Fig. 3 (not shown), and the disc 10¹ may have a tear-tag (23), Figs. 4, 5, 7 (not shown). Alternatively, Fig. 3 (not shown), a tag and a line of weakness may be provided on the part 10. In a modification, Fig. 8 (not shown), the cylindrical portion of the closure is in the form of a double wall (30, 31) for engaging ribs respectively on the outside and inside of the bottle neck. In another modification, Figs. 9, 10 (not shown), the under surface of the disc 10¹ is provided with an annular sealing bead of triangular cross-section.

0) US3735887A – SAFETY CAP FOR MEDICINE CONTAINERS AND THE LIKE...

178) Family number: 7334246 (US3735887A)

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Title: SAFETY CAP FOR MEDICINE CONTAINERS AND THE LIKE

Priority: US19720234507 19720314

Family:	Publication number	Publication date	Application number	Application date
	<u>US3735887 A</u>	19730529	US19720234507	19720314

Probable Assignee: BROCKWAY PLASTICS INC

Assignee(s):^(std): MORRIS G H CHATTANOOGA

Assignee(s): MORRIS G H CHATTANOOGA US ; BHC INC ; BROCKWAY PLASTICS INC

Inventor(s):^(std): MORRIS G H CHATTANOOGA

Inventor(s): MORRIS G H CHATTANOOGA US

International class
(IPC 8-9): B65D50/04 (Advanced/Invention);
B65D50/00 (Core/Invention)

International class
(IPC 1-7): B65D55/02 B65D55/12

CPC: B65D50/046

European class: B65D50/04F2

US class: 215/221 215/9

[Classification Explorer](#)

Cited documents: US3410434 A, US3365088 A, US3181718 A,

Forward Citations: US8333288, US8205762, US6223923, US5183173, US4223799, US2012175336, US2010255436, US2009321382, US2009095700, US2009008396,

Abstract:

Source: US3735887A A safety cap for protecting children from contact with the contents of medicine bottles or containers of poison features a screw-threaded cap on the neck of a bottle or container which cannot be completely removed until an associated plunger is depressed to cause releasing of a locking means in the neck of the bottle or other container.

0) US2349020A – CARTON

179) Family number: 22222397 (US2349020A)

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Title: CARTON

Priority: US19410406985 19410815

Family:	Publication number	Publication date	Application number	Application date
	<u>US2349020 A</u>	19440516	US19410406985	19410815

Probable Assignee: CONTAINER CORP

Assignee(s):^(std): CONTAINER CORP

Inventor(s):^(std): THROCKMORTON EDGERTON A

International class
(IPC 8-9): B65D5/50 B65D77/04 (Advanced/Invention);
B65D5/50 B65D77/04 (Core/Invention)

International class
(IPC 1-7): B65D23/08

CPC: B65D5/5059 B65D77/0426

European class: B65D5/50D4G B65D77/04C2

US class: 206/446 229/89

[Classification Explorer](#)

Forward Citations: USD747960, US7828195, US4155198, US3565322, US3333685, US3000492, US2555863,

Abstract:

Source: US2349020A 1, A carton composed of foldable sheet material of the character described for bottles and the like comprising, a parallelepiped tubular body adapted to receive a bottle with the top of the bottle at one end and the bottom of the bottle at the other end of the carton body, the bottle top end of the carton having strips of material extending along and overlying marginal edge portions of the inside faces of one pair of opposite side walls, said strips being secured to said marginal edge portions with their lower edges providing abutments facing toward the bottle bottom end of the body, said marginal edge portions of said pair of opposite side walls having score lines therein directed transversely of the side walls and providing projections internal of the carton end beneath said strips, a closure panel adapted to be disposed transversely of said body between said abutments and the bottle bottom end of the body. and flanges carried by said panel at an angle thereto with the free edges of the flanges directed toward said bottle top end of the body and held by said abutments.

0) GB995890A – BOTTLE MADE OF PLASTICS MATERIAL

180) Family number: 30947655 (GB995890A)

© PatBase

Title: Bottle made of plastics material

Priority: CH19610010037 19610829

Family:	Publication number	Publication date	Application number	Application date	
	<u>AT247182 B</u>	19660525	AT19620006774	19620823	
	<u>CH394845 A</u>	19650630	CH19610010037	19610829	
	<u>DE1896893 U</u>	19640716	DE1962P020459U	19620828	
	<u>GB995890 A</u>	19650623	GB19620032755	19620827	
	<u>NL7014906 A</u>	19710225	NL19700014906	19701012	

Probable Assignee: PROPLASTO AG

Assignee(s):^(std): PROPLASTO A G ; PROPLASTO AG

Inventor(s):^(std): FRITZ GROSJEAN

Inventor(s): GROSJEAN FRITZ

International class
^(IPC 8-9): [B65D1/02 B65D23/06 B65D41/04](#) ^(Advanced/Invention);
[B65D1/02 B65D23/00 B65D41/04](#) ^(Core/Invention)

International class
^(IPC 1-7): [B29C17/07 B65D1/00 B65D1/02 B65D41/04 B65D47/06 B67B](#)

CPC: [B65D1/0246 B65D23/06 B65D41/0414](#)

European class: [B65D1/02D1B B65D23/06 B65D41/04B1](#)

[Classification Explorer](#)

Forward Citations: WO17087531, JP51032770, EP0365596, DE4139810, DE2166946,

Abstract:

Source: GB995890A 995,890. Non-drip pouring devices. PROPLASTO A.G. Aug. 27, 1962 [Aug. 29, 1961], No. 32755/62. Headings B8D and B8T. A pouring lip a, the thickness of which gradually decreases towards its outer edge, is formed as a continuation of a narrowed extension a' of the neck a of a plastics bottle a. The neck is screw-threaded to receive a cap b which has a downwardly depending annular flange b', which fits inside the narrowed extension so that a fluid-tight seal is formed.

0) GB2046228A – CLOSURE FOR A BOTTLE BOTH BEING OF NON-CIRCULAR...

181) Family number: 1486801 (GB2046228A)

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Title: CLOSURE FOR A BOTTLE BOTH BEING OF NON-CIRCULAR CROSS-SECTION

Priority: FR19790009895 19790419

Family:	Publication number	Publication date	Application number	Application date
	BE882857 A	19801020	BE19800200283	19800418
	BE882857 A1	19801020	BE19800200283	19800418
	DE3015065 A1	19801023	DE19803015065	19800418
	DE3015065 C2	19851212	DE19803015065	19800418
	FR2454418 A1	19801114	FR19790009895	19790419
	FR2454418 B1	19821119	FR19790009895	19790419
	GB2046228 A1	19801112	GB19800012797	19800418
	GB2046228 B2	19831012	GB19800012797	19800418

Probable Assignee: OREAL

Assignee(s):^(std): OREAL

Assignee(s): L OREAL ; L OREAL PARIS FR

Inventor(s):^(std): GONCALVES A ; GONCALVES ANTONIN

Inventor(s): GONCALVES ANTONIN GROSLAY FR ; A GONCALVES ; ANTONIN GONCALVES

International class
(IPC 8-9): [B65D41/04 B65D55/00](#) (Advanced/Invention);
[B65D41/04 B65D55/00](#) (Core/Invention)

International class
(IPC 1-7): [B65D39/08 B65D41/04 B65D41/34 B65D41/62](#)

CPC: [B65D41/0478 B65D41/0492 B65D55/00](#)

European class: [B65D41/04E1 B65D41/04G B65D55/00](#)

[Classification Explorer](#)

Cited documents: US3315830 A, US3249248 A, US2476155 A, US2355583 A, GB653884 A, FR2357432 A1, FR2041494 A5, DE6802742 U, CH356639 A,

Forward Citations: WO17001798, WO0156894, US6114791, US5863145, GB2193195, FR3038228, FR2577525,

Abstract:

Source: GB2046228A A closure for a bottle comprises an internally threaded cap 1a connected by breakable zone 4a to a ring 4 of non-circular cross-section. A cap 2 of corresponding non-circular cross-section has projections 9 on its skirt 6 to engage recesses 5 of the ring 4, and has an internally splined inner sleeve 7 to engage external splines 1d or cap 1a. Cap 1a and cap 2 are pre-assembled, Fig. 2, by engagement of projections 9 and recesses 5 and are subsequently, in an automatic bottle-filling and-closing machine, secured onto the neck of a non-circular cross-section bottle 3 with a torque which ruptures zone 4a to allow (a) rotation of the cap 2 and ring 4 relative to bottle 3 and cap 1a to orientate the closure on the bottle, and (b) subsequent depression of the cap 2 and ring 4 to engage the splines and grooves to lock the cap against rotation relative to the bottle, Fig. 3.

182) Family number: 22518366 (US2439628A)

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Title: BOTTLE STOPPER**Priority:** US19450575787 19450202

Family:	Publication number	Publication date	Application number	Application date
	<u>US2439628 A</u>	19480413	US19450575787	19450202

Probable Assignee: KOPECKY DONALD G**Assignee(s):**^(std): KOPECKY DONALD G**Inventor(s):**^(std): KOPECKY DONALD G

International class B65D39/12 (Advanced/Invention);
^{(IPC 8-9):} B65D39/00 (Core/Invention)

International class B65D39/12
^{(IPC 1-7):}

CPC: B65D39/12**European class:** B65D39/12**US class:** 215/360 215/364[Classification Explorer](#)**Cited documents:** US2312738 A, US2021259 A, US1239225 A, US1033730 A,

Forward Citations: WO0198164, USD588902, US9709346, US9193494, US8037904, US6662490,
 US6419104, US5109997, US4687115, US3489312, US3439826, US3317071,
 US2729353, US2566816, US2014263337, US2014263152, US2008092970,
 US2003168424, GB2197302,

Abstract:

Source: US2439628A Having thus described the invention, what I claim is: A bottle stopper comprising a plug made of resilient material adapted to enter the neck of a bottle, the outer end of said plug projecting outwardly beyond the neck of the bottle and being formed with an annular flange overlying the outer edge of the neck of the bottle, said flange being provided on its under surface with a groove adapted to conformably receive the outer edge of the neck of the bottle and on its upper surface with an annular rib, there being a vertical recess in said plug, an internally threaded and rigid sleeve provided with a flange at its lower end mounted in said vertical recess, the flange of the sleeve being imbedded within the plug above its bottom thereof, a rigid cap overlying the annular flange of said plug, said cap being provided on its underside with an annular groove adapted to conformably receive the annular rib on the flange of said plug and on its underside with an annular rib projecting into and bearing against the walls of said vertical recess, there being a recess in the central portion of said cap at its underside, a metal washer seated in the recess of said cap, and a screw extending through the recess and metal washer in said cap and threaded in said sleeve and operable upon manipulation in the proper direction to compress the flange of the plug against the neck of the bottle and to expand the plug within the neck.

Title: CLOSURES FOR CONTAINERS**Priority:** GB19640052115 19641222

Family:	Publication number	Publication date	Application number	Application date
	GB1061810 A	19670315	GB19640052115	19641222
	US3313439 A	19670411	US19650514590	19651217

Probable Assignee: ALLEN AND HANBURY LTD**Assignee(s):^(std):** ALLEN AND HANBURY LTD**Assignee(s):** ALLEN AND HANBURY LIMITED**Inventor(s):^(std):** JAMES ROBINSON ; ROBINSON JAMES**International class**
(IPC 8-9): [B65D51/00](#) (Advanced/Invention);
[B65D51/00](#) (Core/Invention)**International class**
(IPC 1-7): [A61J1/06](#)**CPC:** [Y10S215/03 B65D51/002](#)**European class:** [B65D51/00B](#)**US class:** [215/247 215/DIG.3 604/415](#)[Classification Explorer](#)**Cited documents:** US2747756 A, US2072853 A,**Forward Citations:** WO9304951, WO8400103, USRE35167, US9625434, US5598939, US5364384, US5279606, US5232109, US5130255, US4635807, US4554125, US3974930, US3904060, US2014345368, US2012067887, EP0172613, EP0148426, DE3346351, DE3310265,**Abstract:**

Source: GB1061810A 1,061,810. Stoppers. ALLEN and HANBURY Ltd. Nov. 30, 1965 [Dec. 22, 1964], No. 52115/64. Heading B8T. A resilient plug stopper, e.g. of rubber, for a bottle, has passages 5, 6 extending through it which are closed by pierceable protuberances 16, 17 extending from a protective cap 13 of inert material, e.g. polypropylene, which covers the internal surfaces of the stopper. Enlargements 19, 20 of the protuberances engage recesses 8, 9 of the passages. The outside of the stopper may have a cover such as a rubber diaphragm held in place by a tear off cap. When the cover is removed the sealed ends of the protuberances are broken, e.g. by a hollow needle, whereupon the passage 5 receives a tube for delivering the bottle contents. An air inlet tube depends from the passage 6 to near the container bottom. A third passage is provided extending upwardly through the stopper to near its top, and also receives a cap protuberance which may be pierced by a hollow needle for the introduction of further liquid into the bottle. In a modification the protuberances do not include enlargements, and one protuberance has a concave end surface to ensure that a needle inserted through its passage will pierce the end centrally.

184) Family number: 8398189 (US3334768A)

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Title: BOTTLE CRATES**Priority:** FR19630923349 19630131 GB19620003899 19620201 US19660523731 19660128
GB19620013940 19620411 GB19620003899 19621201

Family:	Publication number	Publication date	Application number	Application date
	<u>AT260784 B</u>	19680325	AT19630000778	19630131
	<u>AU2684163 A1</u>	19640730	AU19630026841	19630130
	<u>BE627821 A</u>	00000000		00000000
	<u>CH418966 A</u>	19660815	CH19630001263	19630201
	<u>DE1486549 A1</u>	19690522	DE19631486549	19630201
	<u>FR1350962 A</u>	19640131	FR19630923349	19630131
	<u>GB1039511 A</u>	19660817	GB19620003899	19620201
	<u>MY6800001 A</u>	19681231	MY19680000001	19681231
	<u>OA1645 A</u>	19690920	OA19640051849	19641231
	<u>US3220596 A</u>	19651130	US19620242155	19621204
	<u>US3246790 A</u>	19660419	US19630254820	19630129
	<u>US3334768 A</u>	19670808	US19660523731	19660128

Probable Assignee: PHILLIPS PETROLEUM CO**Assignee(s):^(std):** PHILLIPS PETROLEUM CO**Assignee(s):** PHILLIPS PETROLEUM COMPANY**Inventor(s):^(std):** MARTIN EDWARD RANKIN ; MARTIN EDWARD R ; RANKINE MARTIN EDWARD ; EDWARD RANKINE MARTIN**Inventor(s):** MARTIN EDWARD RANKINE ; EDWARD RANKINE MARTIN**International class** B65D1/24 B65D25/04 B65D25/10 B65D25/30 (Advanced/Invention);
(IPC 8-9): B65D1/22 (Core/Invention)**International class** B65D1/24 B65D71/00 B65D85/30
(IPC 1-7):**CPC:** B65D1/24 B65D1/243 B65D2501/24019 B65D2501/24082 B65D2501/2414 B65D2501/24152 B65D2501/24216 B65D2501/24242 B65D2501/24254 B65D2501/24273 B65D2501/2428 B65D2501/2435 B65D2501/24541 B65D2501/24929**European class:** B65D1/24 B65D1/24B L65D501/24B18H L65D501/24B2B L65D501/24B4B5 L65D501/24B4D5 L65D501/24B4F1 L65D501/24B6B1A L65D501/24B6B3B L65D501/24B6B3F L65D501/24B6B8 L65D501/24B6B9 L65D501/24B6N1 L65D501/24B8E**US class:** 220/512 220/517[Classification Explorer](#)**Cited documents:** US3151762 A, US3106308 A, US2974819 A, US2619251 A, US2574983 A, US2526716 A, US2414171 A, US2411673 A, US2063390 A, US1948041 A, GB754312 A, FR1170638 A,**Forward Citations:** WO9965779, WO9408853, WO8707577, WO14087258, USD494867, USD485756, USD466018, USD465417, US9790027, US9682808, US9475602, US9114901, US8893891, US8636142, US8517203, US8448806, US8353402, US8109408, US7549539, US7281641, US7207458, US7128234, US7017746, US6457599, US6237758, US6131730, US6073793, US5792422, US5685452, US5248035, EP3141500,**Abstract:**

Source: GB1039511A 1,039,511. Bottle crates. PHILLIPS PETROLEUM CO. Jan. 31, 1963 [Feb. 1, 1962; April 11, 1962], Nos. 3899/62 and 13940/62. Heading B8P. A thermoplastic bottle crate is moulded in one piece to have bottom, top, side, and end walls, 1, 2, 3, 4 respectively, and the bottles are separated by apertures 2A, with

skirts 2B, in the top wall, and walls 5, 5A, 6 formed integrally with the bottom wall, parallel to the side walls. The walls 5, 5A, 6 have high points 12 at their intersections and lower points 11 therebetween, and run down into the bottom wall at their ends 13, see Fig. 4. At certain of the high points the walls connect with projections 8 depending from the top wall to form reinforcing struts, and these have holes 20 which assist drainage during washing of the crate, as do holes 19 in the bottom wall 1. The end walls 4 have hand holes 15 in recesses 18 and the walls 5A, adjacent the ends have low points 11 not so low as in the walls 5, and 6, to provide more strength. In a second embodiment, Fig. 7, the walls 5, 5A, 6 are absent and the bottles are spaced by ridges 36 surrounding flat square, or V-shaped, areas 37A level with the crate bottom. The skirts of the apertures in the top wall may be deeper and have vertical slits so that they grip the bottles more firmly. In further embodiments the bottle separators are projections of various kinds integral with the top and/or bottom walls. A preferred separator is shown in Fig. 16 and has a frusto-conical top portion and a cruciform lower part which provides support for the bottles. Reference has been directed by the Comptroller to Specification 907,444.

185) Family number: 1186067 (GB1446300A)

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Title: CLOSURE CAP FOR BOTTLES AND LIKE CONTAINERS**Priority:** DE19742426759 19740601

Family:	Publication number	Publication date	Application number	Application date
	AT345684 B	19780925	AT19750004142	19750530
	AT414275 A	19780115	AT19750004142	19750530
	CH597051 A	19780331	CH19750006870	19750528
	DE2426759 A1	19751211	DE19742426759	19740601
	DE2426759 B2	19770512	DE19742426759	19740601
	DE2426759 C3	19780112	DE19742426759	19740601
	FR2275374 A1	19760116	FR19750017358	19750530
	GB1446300 A	19760818	GB19750023839	19750602
	IT1035917 A	19791020	IT19750049860	19750530
	NL7506446 A	19751203	NL19750006446	19750530
	SE7506155 A	19751202	SE19750006155D	19750529

Probable Assignee: FINKE KUNSTSTOFF ROBERT**Assignee(s):**^(std): FINKE KUNSTSTOFF ROBERT ; FINKE KUNSTSOFF SPRITZGUSS WER**Assignee(s):** FINKE KUNSTSOFF SPRITZGUSS WERK ; FINKE KUNSTSTOFF SPRITZGUSS WERK ROBERT ; FINKE R KUNSTSTOFF SPRITZGUSS WERK ; FINKE ROBERT KUNSTSTOFF SPRITZGUSS WERK ; FIRMA ROBERT FINKE KUNSTSTOFF SPRITZGUSS WERK TE FINNENTROP LENHAUSEN BONDSREPUBLIC DUTSLAND ; ROBERT FINKE KUNSTSTOFF SPRITZGUSS WERK ; ROBERT FINKE KUNSTSTOFF-SPRITZGUSS- WERK 5950 FINNENTROP**Inventor(s):**^(std): FINKE K W ; FINKE KLAUS WERNER ; FINKE KLAUS-WERNER**Inventor(s):** KLAUS WERNER FINKE**International class**
^(IPC 8-9): [B65D41/58](#) [B65D55/02](#) (Advanced/Invention) ;
[B65D41/32](#) [B65D55/02](#) (Core/Invention)**International class**
^(IPC 1-7): [B65D41/08](#) [B65D41/32](#) [B65D41/58](#) [B65D41/60](#) [B65D41/62](#) [B65D47/36](#) [B65D51/18](#)
[B65D55/02](#) [B65D55/06](#) [B65D55/12](#)**CPC:** [B65D41/58](#) [B65D55/024](#)**European class:** [B65D41/58](#) [B65D55/02F](#)[Classification Explorer](#)**Forward Citations:** WO9921772, WO12014028, WO11147769, WO0196186, US8833576, US6827227, US6609637, JP2004503439, ITMO20100154, HR20000244, GB2242678, GB2242678, EP1304296, EP1304296, EP1034116,**Abstract:**

Source: GB1446300A **WARNING** start of CLMS field may overlap end of DESC **. A cap 1, which is made of elastically deformable plastics material such as polyethylene, has a top 1a to which a cylindrical safety ring 3 is connected by four integrally formed bridging pieces 2.

186) Family number: 28179425 (US2002000392A)

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Title: Tamper evident closure**Priority:** GB19990003244 19990212 WO2000GB00449 20000211

Family:	Publication number	Publication date	Application number	Application date
	AU200024522 A1	20000829	AU20000024522	20000211
	AU200024522 A5	20000829	AU20000024522	20000211
	AU752850 B2	20021003	AU20000024522	20000211
	CA2362323 AA	20010810	CA20002362323	20000211
	CN1340019 A	20020313	CN20008003681	20000211
	EP1150899 A1	20011107	EP20000902782	20000211
	GB9903244 A0	19990407	GB19990003244	19990212
	IL144748 A0	20020630	IL20000144748	20000211
	JP2002536263 T2	20021029	JP20000598416T	20000211
	KR20010113690 A	20011228	KR20017010275	20000211
	PL350298 A1	20021202	PL20000350298	20000211
	TR200102335 T2	20020121	TR20010002335T	20000211
	US2002000392 AA	20020103	US20010927512	20010813
	WO0047489 A1	20000817	WO2000GB00449	20000211

Probable Assignee: THERMOTIC DEVELOPMENTS LTD**Assignee(s):^(std):** SEARLE MATTHEW J ; SEARLE MATTHEW JOHN ; THERMOTIC DEV LTD ; THERMOTIC DEVELOPMENTS LIMITED ; THERMOTIC DEVELOPMENTS LTD**Inventor(s):^(std):** MATTHEW JOHN SEARLE ; SEARLE MATTHEW J ; SEARLE MATTHEW JOHN**Agent(s):** ALLENS ARTHUR ROBINSON; ALLENS PATENT AND TRADE MARK ATTORNEYS; SIM AND MCBURNEY**Designated states:** AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class
 (IPC 8-9): [A47J36/28 B65D25/08 B65D55/02 B65D81/32 B65D81/34 F25D31/00 F25D5/02](#) (Advanced/Invention);
[B65D55/02 B65D81/32 B65D81/34 F25D31/00](#) (Advanced/Non-invention);
[A47J36/24 B65D25/04 B65D55/02 B65D81/32 B65D81/34 F25D5/00](#) (Core/Invention);
[F25D31/00](#) (Core/Non-invention)

International class
 (IPC 1-7): [A47G23/04 A47J36/28 B65D B65D25/08 B65D55/02 B65D81/32 B65D81/34 B65D85/00 F17C13/00 F24C15/18 F25B21/00 F25D5/02](#)

CPC: [A47J36/28 B65D25/085 B65D55/026 F25D5/02 F25D31/007 F25D2331/805](#)**European class:** [A47J36/28 B65D25/08C B65D55/02G F25D5/02 R25D31/00H2 R25D331/805](#)**US class:** [126/246 126/246S 206/459.1 206/459.100P 206/807 206/807S 62/457.9 62/457.900S](#)[Classification Explorer](#)**Cited documents:** US5626022 A, US4685579 A, US3970068 A, US3369369 A, US1897723 A, GB9904241, EP0467619 A1,**Forward Citations:** WO13164619, WO0219878, WO0201994, WO0124672, USD728114, US7682696, US2007151900, US2006054526, US2005279106, JP2008535546, CN103569494, CN103569493, CN102673877, CN101836818,**Abstract:**

Source: US2002000392A A beverage container (10) has a base member (16) indented to define an elongate external cavity (20). To provide a self-heating can, the cavity (20) is filled with quicklime and closed by a closure

(30) which contains water. If the closure (30) is opened with the can inverted, water flows over the quicklime to cause an exothermic reaction. To provide evidence that the closure (30) has been operated to cause self-heating, the internal surface of a lid (34) is colored and/or provided with a bold pattern. The material of part of the closure (30) is transparent and the contained water is colored. For example, the water is red and the surface of the lid (34) is blue. In the initial full and unoperated state, the closure will appear red. After operation, during which the water exits, the closure will appear blue. The fact that the closure has been operated is immediately visually apparent.

187) Family number: 41887042 (EP1930249A1)

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Title: SEALING CAP AND ASSOCIATED CAN EQUIPPED WITH A BACKFLOW PREVENTION DEVICE**Priority:** FR20060010566 20061204

Family:	Publication number	Publication date	Application number	Application date
	<u>EP1930249 A1</u>	20080611	EP20070019230	20071001
	<u>FR2909362 A1</u>	20080606	FR20060010566	20061204
	<u>FR2909362 B1</u>	20090220	FR20060010566	20061204

Probable Assignee: PROCAP FRANCE SAS**Assignee(s):^(std):** PROCAP LUXEMBOURG SA**Assignee(s):** PROCAP FRANCE SAS**Inventor(s):^(std):** BERTRAND CYRILLE ; CYRILLE BERTRAND**Agent(s):** BENTZ JEAN PAUL**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 MK MT NL PL PT RO RS SE SI SK TR

International class B65D41/00 B65D47/12 B65D47/32 B65D51/16 (Advanced/Invention) ;
 (IPC 8-9) B65D41/00 B65D47/04 B65D47/12 B65D51/16 (Core/Invention)

CPC: B65D47/122 B65D47/32**European class:** B65D47/12B B65D47/32[Classification Explorer](#)**Cited documents:** WO06075342 A1,**Abstract:**

The can and sealing cap has a cylindrical shaped backflow prevention device inserted in a spillage spout (3). The device is in a form of a transfer element (4) and is pre-mounted and retained in a circular/square shaped sealing cap (1) in one period by a tentative attaching unit. The unit is constituted by radial tongues, petals and webs. The element is transferred inside the spout of a can in another period during sealing of the cap to permanently retain the element by the unit which assures temporary attachment in the cap and maintenance by wedging inside the spout of appropriate dimension. The radial tongues, the petals and the webs are made of elastically deformable flexible material. The tentative attaching unit and the backflow prevention device are made of plastic material.

188) Family number: 44003950 (US2009283555A)

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Title: VALVE TOP**Priority:** US20080120279 20080514

Family:	Publication number	Publication date	Application number	Application date
	<u>CA2664048 AA</u>	20091114	CA20092664048	20090424
	<u>US2009283555 AA</u>	20091119	US20080120279	20080514
	<u>US8162186 BB</u>	20120424	US20080120279	20080514

Probable Assignee: TABLECRAFT PRODUCTS CO**Assignee(s):^(std):** MAXWELL CHARLES P ; TABLECRAFT PRODUCTS CO ; TABLECRAFT PRODUCTS COMPANY**Inventor(s):^(std):** MAXWELL CHARLES P**Agent(s):** PEARNE AND GORDON LLP**International class**
(IPC 8-9): B65D35/28 B65D35/38 B65D35/50 B65D47/20 B65D5/72 (Advanced/Invention);
B65D35/00 B65D35/24 B65D47/04 (Core/Invention)**CPC:** B65D1/32 B65D47/2031 B65D2501/0063**European class:** B65D1/32 B65D47/20E2 L65D501/02Y5**US class:** 222/212 222/213 222/490 222/494[Classification Explorer](#)**Cited documents:** US7784652 BB, US7699193 BB, US7128245 BB, US6951295 BA, US6938805 BB, US6655554 BB, US6530504 BB, US6293437 BA, US6230940 BA, US5676289 A, US5626262 A, US5439143 A, US5409144 A, US5377877 A, US5339995 A, US5271531 A, US5213236 A, US5033655 A, US4991745 A, US4961888 A, US4432473 A, US4356935 A, US3884396 A, US2009127294 AA, US2008110938 AA, US1683727 A,**Forward Citations:** US2016060018, US2014246458, US2012114800,**Abstract:**

Source: US2009283555A A refillable bottom dispensing package forming a closed space in which fluid material can be stored and from which such material can be dispensed, the package having a rigid wall adjacent a bottom thereof, the wall having a hole, a resilient valve regulating dispensing of the fluid material contained in the package through the hole, the valve being closed to the passage of fluid material through the hole when the contents of the package are substantially at atmospheric pressure and being opened by pressure on the contents when said pressure is above atmospheric pressure, the valve forming a flap seal against a surface of said wall, the sealing action of the flap seal against said wall surface being free of influence from structural elements of the package while being directly responsive in its sealing force against the wall surface to the pressure level of the contents in the package space, the inter-relationship of the flap seal and the wall within the package being arranged to avoid impeding removal of the valve from the wall and the package.

189) Family number: 49934990 (US2011278184A)

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Title: BEVERAGE FLAVORING APPLICATOR**Priority:** US20100334768P 20100514 US20110106749 20110512

Family:	Publication number	Publication date	Application number	Application date
	<u>US2011278184 AA</u>	20111117	US20110106749	20110512
	<u>US8522968 BB</u>	20130903	US20110106749	20110512
	<u>WO11143629 A1</u>	20111117	WO2011US36541	20110513

Probable Assignee: SHINIE HINIE LLC**Assignee(s):**^(std) BENNER JR JAMES D ; MIDDLEMAN MARK L ; PUTTY WILLIAM B ; SHINIE HINIE LLC**Inventor(s):**^(std) PUTTY WILLIAM B ; MIDDLEMAN MARK L ; BENNER JR JAMES D**Agent(s):** COX SMITH MATTHEWS INC; ALLEN COURTENAY B 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

International class B65D25/08 B65D51/28 (Advanced/Invention)
(IPC 8-9):**CPC:** A47G21/00**European class:** A47G21/00**US class:** 206/219 206/222 206/568[Classification Explorer](#)

Cited documents: WO10029585 A1, US8356711 BB, US7614496 BB, US7523823 BA, US7328670 BB, US7308915 BB, US7279187 BB, US7249690 BB, US6644471 BA, US6372270 BA, US6155452 A, US6098795 A, US5176278 A, US5071042 A, US4159570 A, US3840136 A, US3779372 A, US2631521 A, US2010200437 AA, US2010116699 AA, US2009004343 AA, US2008245293 AA, US2008223740 AA, US2008202950 AA, US2008023349 AA, US2007227919 AA, US2007045134 AA, US2005126632 AA, US2004206302 AA,

Forward Citations: WO17127252, WO16151166, US9783349, US9745187, US9596880, US8808778, US8662294, US2016325243, US2016121322, US2016044953, US2016044938, US2013323381, US2013139703, US2013098950, US2011059208, NL1039243, ES2584175,

Abstract:

Source: US2011278184A A beverage flavoring applicator may have a housing having an internal channel, a cup assembly disposed in the internal channel, the cup assembly having a first cup having a first chamber with a first flavoring substance disposed in the first chamber, a second cup having a second chamber with a second flavoring substance disposed in the second chamber, the first and second cups being nested one within the other, and a plunger slidably engaged with the housing, the plunger having a spike configured to rupture the first and second cups upon movement of the plunger from a first position to a second position with respect to the housing, thereby dispensing the first and second flavoring substances from the applicator. The applicator may engage with a beverage container, either with or without an adapter. Some embodiments may have a bottle opener. Methods of making such applicators and adapters are also described.

190) Family number: 18916524 (EP0119055A2)

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Title: Improvements relating to closures.**Priority:** GB19830006937 19830314

Family:	Publication number	Publication date	Application number	Application date
	AU198425559 A1	19840920	AU19840025559	19840313
	AU198425560 A1	19840920	AU19840025560	19840313
	EP0119055 A2	19840919	EP19840301512	19840307
	EP0119788 A2	19840926	EP19840301511	19840307
	ES278157 U	19841116	ES19840278157U	19840313
	ES278158 U	19841116	ES19840278158U	19840313
	GB8306937 A0	19830420	GB19830006937	19830314
	JP59187553 A2	19841024	JP19840048956	19840314
	JP59187554 A2	19841024	JP19840048957	19840314
	ZA8401800 A	19841031	ZA19840001800	19840312
	ZA8401801 A	19841031	ZA19840001801	19840312

Probable Assignee: METAL CLOSURES GROUP PLC**Assignee(s):**^(std) METAL CLOSURES GROUP PLC ; METARU KUROOJIYUAAZU GURUUPU P**Assignee(s):** METARU KUROOJIYUAAZU GURUUPU PLC**Inventor(s):**^(std) HAINES PETER REGINALD ; PETER REGINALD HAINES ; PIITAA REJINARUDO HAINESU**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD**Designated states:** AT BE CH DE FR GB IT LI LU NL SE

International class
^{(IPC 8-9):} [B65D41/04 B65D53/00](#) (Advanced/Invention);
[B65D53/00](#) (Advanced/Non-invention);
[B65D41/04 B65D53/00](#) (Core/Invention)

International class
^{(IPC 1-7):} [B29C B65D41/04 B65D41/34 B65D53/00](#)

CPC: [B65D41/0421](#)**European class:** [B65D41/04B1A](#)[Classification Explorer](#)

Forward Citations: US9211969, US7014060, US5458252, US5133389, US4907709, US4714167, US4699285, US4574966, KR100716060, JP62008941, JP62008940, JP62008939, JP61194646, JP61097137, JP5154266, JP4327146, JP4327144, JP2009208778, JP2006056562, GB2226811, GB2189228, EP1327587, EP0184959, EP0184959, DE4135109,

Abstract:

Source: EP0119055A2 A closure for the externally screw-threaded neck of a container such as a bottle is moulded in one piece from a plastics material and comprises a top 11 and a depending skirt 12 which has an internal screw-threaded ridge 13. A sealing rib 14 projects radially inward from the skirt above the screw thread-ridge and a flange 17 depends from the top of the closure and is thickened at or adjacent its lower end to form a radially outwardly projecting second sealing rib 18. Additional sealing ribs 20 project downward from the top into the channel formed jointly by the flange 17, skirt 12 and top 11.

191) Family number: 29838688 (GB488427A)

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Title: Improvements in metal bottles or containers and methods of manufacturing the same**Family:**

Publication number	Publication date	Application number	Application date
<u>GB488427 A</u>	19380706	GB19370000416	19370106

Probable Assignee: CROWN CORK AND SEAL CO**Assignee(s):^(std):** CROWN CORK AND SEAL CO**Assignee(s):** CROWN CORK AND SEAL CO INC ; CROWN CORK AND SEAL COMPANY INC

International class B21D51/16 B65D41/12 (Advanced/Invention) ;
 (IPC 8-9) B21D51/16 B65D41/02 (Core/Invention)

CPC: B65D7/34 B65D7/48**European class:** B65D7/34 B65D7/48[Classification Explorer](#)**Forward Citations:** US5984156, US5651523, US5312013, US4147271, JP54131480, EP2161206,**Abstract:**

Source: GB488427A [Classes 83 (ii) and 83 (iv)] [Also in Group XVII] Stamping.—A metal bottle is made in two parts by successively cupping a sheet, e.g. through the stages shown in Fig. 14, and shaping the upper edge, e.g. tapered inwards to fit a drawn and blanked-out part formed, e.g. in Fig. 15, and forming a closure-engaging bead 23 at the mouth, and then joining the two parts together to form a bottle as in Fig. 6. Other forms of closure necks and bottoms are shown. The seam joining the conical top part to the lower part may have a folded over hem, Fig. 7, on the edge of the lower part to prevent the metal edge coming in contact with the contents. Fig. 2 shows a closure with a conventional crown cap. The body may be formed with peripheral strengthening ribs as in Fig. 6. The shape may be other than circular, e.g. square, rectangular, c.

192) Family number: 33549736 (WO06111992A1)

© PatBase

Title: CLOSING DEVICE WITH TAP FOR LARGE BOTTLES**Priority:** IT2005MI00712 20050421**Family:**

Publication number	Publication date	Application number	Application date
ITMI20050712 A1	20061022	IT2005MI00712	20050421
WO06111992 A1	20061026	WO2005IT00278	20050516

Probable Assignee: MANGIA SANTO GIOVANNI**Assignee(s):^(std):** MANGIA SANTO GIOVANNI**Inventor(s):^(std):** MANGIA SANTO GIOVANNI

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 KP KR KZ LC LK LR LS LT LU LV 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

International class [B65D41/08](#) [B65D47/30](#) [B65D51/16](#) (Advanced/Invention);
 (IPC 8-9): [B65D41/04](#) [B65D47/04](#) [B65D51/16](#) (Core/Invention)

CPC: [B65D41/08](#) [B65D47/30](#) [B65D51/1644](#)**European class:** [B65D41/08](#) [B65D47/30](#) [B65D51/16D2](#)[Classification Explorer](#)**Cited documents:** US6139802, US2234084, GB717696, DE958363, DE19806481,**Forward Citations:** GB2480603,**Abstract:**

Device of plastic material for closing large bottles (10) with a tap, comprising a cylindrical head piece (18) with threading (38) on its internal wall (22) to be screwed into external threading (74, 76) on a pair of semi-cylindrical parts (70, 72) that match at their longitudinal ends (86, 88), with internal projections (78, 80) to fit between the projecting rim (14) at the top of the neck (12) of the bottle and a continuous raised portion (16) at a short distance below it, there being at the base of the head piece a tube (52) communicating with the inside of the bottle, in which is a freely sliding valve (56) of a diameter slightly smaller than that of the inside of the tube to facilitate the passage of air and therefore outflow of the liquid in the bottle.

193) Family number: 31396465 (DE10324893A1)

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Title: FLASCHE MIT KOMPONENTEN, UM SIE RATIONELLER ENTSORGEN ZU KOENNEN
 PLASTIC BOTTLE HAS PERIPHERAL RIBS WITH CONCAVE UPPER SURFACES
 WHICH FIT AGAINST CONVEX LOWER SURFACES ON RIBS ABOVE WHEN BOTTLE
 IS COMPRESSED, BARB ON ROD ATTACHED TO BASE INTERLOCKING WITH
 HOOKED SECTION IN NECK

Priority: DE20031024893 20030530

Publication number	Publication date	Application number	Application date
DE10324893 A1	20041216	DE20031024893	20030530

Probable Assignee: SCHUETTE CHRISTINE

Assignee(s):^(std): KEMPA JOSEF ; SCHUETTE CHRISTINE

International class
 (IPC 8-9): B65D1/02 (Advanced/Invention);
B65D1/02 (Core/Invention)

International class
 (IPC 1-7): B65D23/00

CPC: B65D1/0292

European class: B65D1/02D3

[Classification Explorer](#)

Cited documents: US6105815, US5573129, GB2373492, GB2321893, FR2833244, FR2723565,
 EP1354802, EP1184287, EP0702968, DE9017361 U, DE69506263 T, DE3217913,
 DE29512226 U, DE19957788, DE19816764, DE19618750,

Forward Citations: JP2007197042, JP2006341904, FR2893007, FR2893006,

Abstract:

Source: DE10324893A1 Flasche aus Kunststoff, mit Komponenten zum Falten und zum Verriegeln des Rumpfkörpers; mit einem Rumpfkörper (10) in Balgform, der mit gewölbten Faltflächen (15 und 16) ausgebildet ist; mit einem Flaschenboden (19), der mit einem in den Raum der Flasche hineinragenden Hohlstab (20) mit einem Fangkegel (21) am oberen Ende ausgebildet ist; mit einer Fanghülse (23), die vom Flaschenhals in die Flasche hineinragt, die am unteren Ende mit in die Fanghülse (23) hineinragenden Spreizrippen (25) ausgebildet ist, sodass, wenn die Flasche zusammengefaltet wird, der Hohlstab (20) mit dem Fangkegel (21) in die Fanghülse (23) eindringt, hierbei umschließen die Spreizrippen (25) den Fangkegel (21), sodass die Flasche im gefalteten Zustand in einen Container platzsparend entsorgt werden kann. The plastic bottle has peripheral ribs (13) with concave upper surfaces (15) which fit against convex lower surfaces (16) on the ribs above when the bottle is compressed for disposal. A barb (21) on a rod (20) attached to the base (19) of the bottle then interlocks with a hooked section (25) in the neck.

0) ES1043985Y – TAPON PERFECCIONADO.

194) Family number: 34661290 (ES1043985Y)

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Title: TAPON PERFECCIONADO.

Priority: ES19990002322U 19990910

Family:	Publication number	Publication date	Application number	Application date
	ES1043985 UA	20000216	ES19990002322U	19990910
	ES1043985 Y1	20000801	ES19990002322U	19990910
	ES1043985 YA	20000801	ES19990002322U	19990910

Probable Assignee: GOMEZ CAO JOSE LUIS

Assignee(s):^(std): GOMEZ CAO JOSE LUIS

Inventor(s):^(std): GOMEZ CAO JOSE LUIS

International class [B65D47/08](#) (Advanced/Invention);
(IPC 8-9): [B65D47/08](#) (Core/Invention)

International class [B65D47/08](#)
(IPC 1-7):

[Classification Explorer](#)

Abstract:

Source: ES1043985U 1. Tapon perfeccionado, que estando previsto para su aplicacion en botellas contenedores de liquidos a presion y/o gasificados, tales como cavas, bebidas refrescantes y similares, y siendo del tipo de los constituidos mediante un cuerpo cilindrico (1), hueco y cerrado por una de sus bases (4), en el que se ha establecido un cuello concentrico (8) sobre la parte interior de la embocadura del gollete (17) de la botella, asi como un faldon externo (11) con cortes (3) en el sentido de las generatrices, determinantes de sectores axiales presionables y comprimibles mediante un anillo desplazable (13) sobre la superficie lateral de dicho faldon (11), para conseguir el bloqueo y fijacion del cuerpo (1) del tapon sobre el gollete (17) de la botella, caracterizado porque dicho anillo de bloqueo (13) presenta una pareja de patillas a modo de unas (14) que emergen del borde inferior del mismo y se enclavan en una ventana (6) practicada al efecto en un ala perimetral y externa (5) perteneciente al bordeinferior del faldon (11) del cuerpo (1) del tapon; habiendose previsto que dicho anillo (13) cuente con una fina anilla de traccionado (16) vinculada a aquel a traves de un saliente o pequeno sector (15) situado en una zona diametralmente opuesta a la de las unas (14), y en el borde contrario; con la particularidad de que tales unas (14) constituyen un medio de abisagramiento en la vinculacion entre el anillo (13) y el cuerpo (1) del tapon, permitiendo el basculamiento para llevar a cabo el montaje completo de tal anillo (13) sobre el cuerpo (1) del tapon, asi como en el destapado o apertura de la propia botella. 1. Plug perfected, that being intended for application in bottles and/or gasified liquid containers, such as sparkling wines, soft drinks and the like, and being of the type constituted by a cylindrical body (1), hollow and closed at one of its bases (4), which has established a neck concentric (8) on the inside of the mouth of the neck (17) of the bottle, as well as an outer skirt (11) with cuts (3) in the direction of the generatrices, determining axial sectors and compressible by a movable ring (13) depressible on the side surface of said skirt (11), in order to achieve the locking and fixing the body (1) of the cap on the neck (17) of the Bottle, characterized in that said locking ring (13) has a pair of pins by way of nails (14) emerging from the lower edge thereof and are interlocked in a window (6) formed for this purpose in a perimetric wing and outer (5) belonging to the bordeinferior skirt (11) of the body (1) of the plug; it being provided that said ring (13) with a thin ring traccionado (16) linked to that through a projection or small sector (15) located in a diametrically opposite area to that of nails (14), and in the opposite edge, with the particularity that such nails (14) constitute a means of hinging on the link between the ring (13) and the body (1) Of the plug, allowing tilting to carry out the complete assembly of such a ring (13) on the body (1) of the plug, as well as in the uncapped or opening of the bottle itself.

195) Family number: 43760977 (BRMU8800260U)

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Title: disposicao construtiva introduzida em tampa Constructive disposition introduced in cover (Machine translation)**Priority:** BR2008MU00260U 20080124

Publication number	Publication date	Application number	Application date
<u>BRMU8800260 U2</u>	20090908	BR2008MU00260U	20080124

Probable Assignee: GARBONI GIOVANNI**Assignee(s):^(std):** GARBONI GIOVANNI**Assignee(s):** GIOVANNI GARBONI**Inventor(s):^(std):** GARBONI GIOVANNI**Inventor(s):** GIOVANNI GARBONI
International class B65D41/04 (Advanced/Invention);
 (IPC 8-9): B65D41/04 (Core/Invention)
[Classification Explorer](#)**Abstract:**

Source: BRMU8800260U 1 RESUMO DISPOSICAO CONSTRUTIVA INTRODUZIDA EM TAMPA Cujas estanqueidade e obtida pela previsao de elementos de vedacao, que se acham dispostos internamente a 5 dita tampa, os quais estabelecem pontos de interferencia com o gargalo do frasco no qual e aplicada, gerando a perfeita acomodacao do dito gargalo em relacao aos ditos elementos de vedacao, os quais estabelecem o perfeito envolvimento da borda superior do gargalo, tanto interna quanto externamente, prevenindo 10 assim qualquer possibilidade de vazamento do conteudo. 1 SUMMARY hand CONSTRUCTIVE INTRODUCED IN TAMPA Whose tightness and obtained by the prediction of sealing elements, which are arranged inside the 5 said lid, which establish points of interference with the neck of the bottle in which and applied, creating the perfect accommodation said bottleneck in relation to the said sealing elements, which establish the perfect engagement of the upper edge of the neck, both internally and externally, preventing 10 so any possibility of leakage of contents.

Title:

Unitary safety cap

Priority:

US19660569234 19660801

Family:

Publication number	Publication date	Application number	Application date
<u>US3371808 A</u>	19680305	US19660569234	19660801

Probable Assignee:

EVERT D VELT

Assignee(s):^(std):

EVERT D VELT

Inventor(s):^(std):

VELT EVERT D

International class
(IPC 8-9):

B65D50/04 (Advanced/Invention);
B65D50/00 (Core/Invention)

International class
(IPC 1-7):

B65D41/34 B65D55/12

CPC:

B65D50/048

European class:

B65D50/04F4

US class:

215/214 215/9

Classification Explorer

Cited documents:

US3329293 A, US3027035 A, US2171015 A,

Forward Citations:

US7967159, US7571826, US5916525, US3779415, US3695476, US3695475, US3450289, US2008223811, US2006289377, FR2134700, EP0160474, EP0160474, EP0025966, DE4139810, DE2353742,

Abstract:

Source: US3371808A (Claim 1) 1. A unitary safety bottle cap, comprising: a cylindrical side wall and an end wall; a stopper having a body within said side wall and integral with the undersurface of said end wall; said stopper being adapted to be disposed within the mouth of a bottle having an external thread; said stopper having depending therefrom outwardly projecting resiliently deformable means engageable within the bottle to resist withdrawal of said stopper; and means internally of said side wall and normally spaced laterally outwardly from said thread and movable inwardly for cooperative engagement with said thread for imposing an axial stopper withdrawing force to said cap responsive to such inward movement of said means and relative rotation of said bottle and said cap.

197) Family number: 9341591 (US5390792A)

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Title: STERILE PACKAGING**Priority:** CA19942118382 19941018 US19930139599 19931018

Family:	Publication number	Publication date	Application number	Application date
	<u>CA2118382 AA</u>	19950419	CA19942118382	19941018
	<u>CA2118382 C</u>	20060321	CA19942118382	19941018
	<u>EP0648686 A1</u>	19950419	EP19940307631	19941018
	<u>JP3565920 B2</u>	20040915	JP19940277182	19941018
	<u>JP7187249 A2</u>	19950725	JP19940277182	19941018
	<u>US5390792 A</u>	19950221	US19930139599	19931018

Probable Assignee: ETHICON INC**Assignee(s):**^(std) ETHICON INC**Assignee(s):** KALINSKI ROBERT J ; VAN NESS WILLIAM**Inventor(s):**^(std) KALINSKI ROBERT J ; ROBAATO JIEI KARINSUKI ; UIRIAMU BAN NESU ; VAN NESS WILLIAM**Agent(s):** OGILVY RENAULT LLP SENCRL SRL**Designated states:** DE FR GB

International class
^{(IPC 8-9):} A61B19/02 A61L2/26 B65D25/10 B65D75/36 B65D81/13 B65D81/133 B65D81/20 (Advanced/Invention);
A61B19/00 A61L2/26 B65D25/10 B65D75/28 B65D81/05 B65D81/20 (Core/Invention)

International class
^{(IPC 1-7):} A61B19/02 A61L2/26 B65D81/02 B65D25/10 B65D75/36 B65D81/133 B65D81/20

CPC: Y10S206/815 A61L2/26 B65D25/105 B65D75/328 A61B50/30 A61B50/33 A61B2050/002 A61B2050/0065 B65D75/36

European class: A61B19/02P A61L2/26 B65D25/10C1 B65D75/32D3B B65D75/36 K61B19/02A K61B19/02C6 K61B19/02P6

US class: 206/213.1 206/439 206/587 206/815

[Classification Explorer](#)

Cited documents: US5246109 A, US5217118 A, US5052558 A, US4664256 A, US4466552 A, EP0488323 A1, EP0322134 A1, EP0169154 A1, EP0093796 A2, DE2916564 A1, DE2904042 A1, CA1192525 A1,

Forward Citations: WO16115058, WO0198170, USD622617, US9414893, US9211487, US9028457, US8584852, US8518272, US8511467, US8444620, US8261909, US8245844, US8182769, US7766167, US6905016, US6866142, US6599280, US6494314, US6427841, US6073759, US6039495, US5976299, US5842326, US2014346072, US2011178590, US2011127188, US2010274206, US2009250413, US2007007159, US2006058599, US2003209455, US2003158512, US2002168401, JP4611091, JP4611034, JP4520352, JP4520266, JP4096424, JP2006296492, JP2006288541, JP2006187425, JP2006087524, JP2000159266, GB2335911, FR2843368, EP1355833, EP1043245,

Abstract:

Source: US5390792A A packaging for the protective sterile containment of a rigid product and, more particularly, a sealed container protectively enclosing the sterile product, such as a liquid-filled vial, during shipment and handling of the packaging, and upon opening of the packaging in a sterile environment; for instance, a surgical operating room, facilitating the sterile transfer of the product from the packaging into the sterile environment. The packaging includes a substantially rigid, resiliently flexible thermoformed plastic container having a plurality of indentations or recessed wall portions molded or thermoformed into various of the side, end and bottom wall surfaces of the container, with such wall portions forming contacting surfaces shaped in correlation with the exterior surface portions of a product housed in the container so as to position the product therein in a specified orientation, and in which at least one of the indentations includes product-gripping structure protectively maintaining the product within the packaging container in its fixed position during shipping and handling of the

container so as to be secure from potential damage due to impacts or shocks imparted to the packaging. The indentations are formed with venting ridges constituting tubular passages between the mutually contacting surfaces of the container and the product to enable an improved and substantially unhindered circulation of sterilizing gases throughout the interior of the packaging and about the product.

198) Family number: 17173109 (ES1005657Y)

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Title: DISPOSITIVO DE CIERRE DE SEGURIDAD PARA FRASCOS Y ENVASES SIMILARES.**Priority:** ES19880001093Q 19880411 ES19880001093U 19880411

Family:	Publication number	Publication date	Application number	Application date
	ES1005657 UA	19881116	ES19880001093U	19880411
	ES1005657 Y1	19900701	ES19880001093U	19880411
	ES1005657 YA	19900701	ES19880001093Q	19880411

Probable Assignee: SUMINISTROS AUXILIARES DE ENVASES DE PLASTICO SAEPSA SA**Assignee(s):** SUMINISTROS AUXILIARES DE ENVASES DE PLASTICO S A ; SUMINISTROS AUXILIARES DE ENVASES DE PLASTICO S A S A E P S A ; SUMINISTROS AUXILIARES DE ENVASES DE PLASTICO SAEPSA SA**Inventor(s):** RUFIE CALBET ANTONIO**International class** [B65D41/32](#) (Advanced/Invention)
(IPC 8-9):**International class** [B65D41/32](#)
(IPC 1-7):[Classification Explorer](#)**Abstract:**

Source: ES1005657U DISPOSITIVO DE CIERRE DE SEGURIDAD PARA FRASCOS Y ENVASES SIMILARES, DEL TIPO QUE COMPRENDEN UNO O MAS NERVIOS O HILOS DE ROSCA ALREDEDOR DEL CUELLO DEL FRASCO Y UN TAPON CON RESALTES INTERNOS, CARACTERIZADO ESENCIALMENTE POR EL HECHO DE QUE CONSTA DE TANTAS ENTRADAS SUPERIORES COMO NERVIOS, ESPACIADAS ENTRE SI Y OTRAS TANTAS SALIDAS INDEPENDIENTESM ASIMISMO ESPACIADAS, CUYA AMPLITUD REBASA LA DE LOS RESALTES INTERNOS, SITUADOS HELICOIDALMENTE EN EL INTERIOR DEL TAPON ACOPLABLE A ROSCA EN EL CUELLO DESCRITO, EXISTIENDO UN ESPACIO, POR DEBAJO DE LOS NERVIOS DEL MISMO, DE ALTURA SUFICIENTE PARA QUE LOS RESALTES INTERNOS DEL TAPON PUEDAN DESPLAZARSE LIBREMENTE AL GIRAR EL TAPON ALREDEDOR DEL CUELLO, SIENDO LA DISTANCIA QUE HAY ENTRE LA BOCA DEL CUELLO DEL TARRO Y EL PUNTO INFERIOR MAS DISTANCIADO DE LOS NERVIOS HELICOIDALES, MENOR QUE LA ALTURA INTERNA DEL TAPON. Safety LOCKING DEVICE FOR BOTTLES AND SIMILAR CONTAINERS, OF THE TYPE COMPRISING ONE OR MORE RIBS OR THREADS AROUND THE NECK OF THE BOTTLE AND A CAP WITH INTERNAL projections, characterized ESSENTIALLY BY THE FACT THAT IT CONSISTS OF AS MANY entries as upper ribs, spaced FROM EACH OTHER AND MANY OTHER outputs, whose amplitude EXCEEDS THE INDEPENDIENTESM also spaced FROM THE INTERNAL projections, LOCATED IN THE INTERIOR OF THE CAP Attachable to thread helically wound in the neck described, AND THERE IS A SPACE BELOW THE RIBS, of sufficient height SO THAT THE INTERNAL PROJECTIONS OF THE PLUG CAN MOVE FREELY BY ROTATING THE CAP around the neck, BEING THE DISTANCE BETWEEN THE MOUTH OF THE NECK OF THE Jar AND THE LOWER point more distanced from the helical ribs, LESS THAN THE INTERNAL HEIGHT OF THE PLUG.

0) GB780679A – AN IMPROVED NON-REFILLABLE CLOSURE FOR A CONTAI...

199) Family number: 20415049 (GB780679A)

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Title: An improved non-refillable closure for a container

Priority: GB19550015920 19550603

Family:	Publication number	Publication date	Application number	Application date
	<u>GB780679 A</u>	19570807	GB19550015920	19550603

Probable Assignee: JUAN BAUTISTA DELLA LIBERA SIL

Assignee(s):^(std): JUAN BAUTISTA DELLA LIBERA SIL

Assignee(s): JUAN BAUTISTA DELLA LIBERA SILICANI

International class
(IPC 8-9): B65D49/06 (Advanced/Invention);
B65D49/00 (Core/Invention)

International class
(IPC 1-7): B65D49/04

CPC: B65D49/06

European class: B65D49/06

[Classification Explorer](#)

Abstract:

Source: GB780679A 780,679. Non-refillable bottles. SILICANI J. B. D. L. June 3, 1955, No. 15920/55. Class 66. A non-refillable closure for a bottle comprises lower and upper members 7 and 8 housing a ball 10 that rests on a valve 9 to seal an opening 15 in the lower member, there being a concave head-piece 6 in the upper member 8 spaced from the ball 10 but serving as an inclined plane when the bottle is horizontal to cause the ball 10 to push against the valve 9 and maintain it in its closed position. The headpiece 6 seats into and is located centrally by a shallow recess 14 in the top of the lower body member 7, the head-piece 6 and the recess 14 being of less diameter than the interior of the upper body member 8 to form an annular space 18 through which liquid may flow when the bottle is tilted beyond the horizontal position. The head-piece 6 is held in the recess 14 by projections 22 in the upper body 8. The upper body 8 increases in diameter at the bottom by a stepped formation, thereby presenting a recess 13 into which fits a flange 24 on the top of the lower body member 7. The stepped formation serves as an anchorage for a retaining band for securing the closure on a bottle. Alternatively the upper body member 8 may have a cylindrical bottom extension serving to encompass the neck of a container and being so constructed that it secures the closure in place.

200) Family number: 2661976 (EP0011575A1)

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Title: Closure with a fixed closure position.**Priority:** FR19780032665 19781120

Family:	Publication number	Publication date	Application number	Application date
	EP0011575 A1	19800528	EP19790400883	19791119
	FR2441555 A1	19800613	FR19780032665	19781120
	FR2441555 B1	19830204	FR19780032665	19781120

Probable Assignee: BIGOTTE GEORGES**Assignee(s):**^(std) BIGOTTE GEORGES**Inventor(s):**^(std) BIGOTTE GEORGES**Designated states:** AT BE CH DE GB IT LU NL SE**International class** [B65D41/04 B65D41/28](#) (Advanced/Invention)
(IPC 8-9):**International class** [B65D41/04 B65D55/12](#)
(IPC 1-7):**CPC:** [B65D41/0478 B65D41/28](#)**European class:** [B65D41/04E1 B65D41/28](#)[Classification Explorer](#)**Cited documents:** FR2123169 A3, FR2036272 A5, DE2106897 A1, CH338370 A,**Forward Citations:** WO8700512, US8365933, US7958703, US7621413, US6431381, US5494174, US5145080, FR3002923, FR2462354, EP2774865,**Abstract:**

The invention relates to a closure 2 which is threaded internally to be screwed onto the outer thread of a neck 1 of a bottle, comprising end-of-screwing stops interacting with corresponding stops provided on the neck so that, in a closed position, the closure is always placed according to the same angular orientation relative to the bottle, and comprising an elastically deformable seal 4 placed perpendicular to a wall 3 of the closure and facing the neck 1. According to the invention, the seal 4 consists of a single piece of elastically deformable material, in the form of a frustum of a cone 5' closed by its minor base 6', the peripheral part of which partially covers the upper edge of the neck 1, its major base being open and laterally bordered by a hollow bead 7' forming a projection and connecting the frustum of a cone 5' to a portion in the form of a plane washer 9, while the minor base 6' is integral with a cylindrical stiffener 10' facing the washer 9.

0) GB2237269A – A FITTING FOR A CONTAINER HAVING A NECK

201) Family number: 6680908 (GB2237269A)

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Title: A fitting for a container having a neck

Priority: GB19890023618 19891019

Family:	Publication number	Publication date	Application number	Application date
	<u>GB2237269 A1</u>	19910501	GB19890023618	19891019
	GB8923618 A0	19891206	GB19890023618	19891019

Probable Assignee: METAL BOX PLC

Assignee(s):^(std): METAL BOX PLC

Assignee(s): CMB PACKAGING ; CMB PACKAGING UK LIMITED ; CMB PACKAGING UK LTD

Inventor(s):^(std): WOOD BRUCE MACLEOD

Inventor(s): BRUCE MACLEOD WOOD

International class
(IPC 8-9): B65D1/48 B65D41/02 (Advanced/Invention);
B65D1/40 B65D41/02 (Core/Invention)

International class
(IPC 1-7): B65D51/18 B65D55/02

CPC: B65D1/48 B65D41/02

European class: B65D1/48 B65D41/02

[Classification Explorer](#)

Cited documents: US4251003, US3779412, US3773204, US3703975, EP0155920, EP0021985,

Forward Citations: WO9725192, US6227392, US5833085, FR2769003, EP0905033,

Abstract:

Source: GB2237269A A fitting 12, preferably made from a plastics material, for the neck 16 of a bottle 10 comprises a body part 42 and at least two leg parts 44 hingedly connected to the lower edge of the body part 42. The body part 42 is arranged to engage the top part of the neck 16. Each of the legs 44 has an inwardly projecting portion, preferably a pair of beads 54. When the fitting 12 is mounted on the bottle 10, the legs 44 extend downwardly from the body part so that the projecting portion is received in a groove 22 in neck 16. The vertical edges of legs 44 may be sealed together, and each leg 44 may have an externally projecting bead 56. A cap having an internal groove (64 fig. 3) can be mounted on fitting 12 so that beads 56 are locked in the groove (64).

0) US3195757A – STOPPERING ELEMENT

202) Family number: 22779759 (US3195757A)

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Title: STOPPERING ELEMENT
Priority: US19640359846 19640415

Family:	Publication number	Publication date	Application number	Application date
	<u>US3195757 A</u>	19650720	US19640359846	19640415

Probable Assignee: CREAMER MERLE T

Assignee(s):^(std): CREAMER MERLE T ; GUEST ARTHUR J

Inventor(s):^(std): CREAMER MERLE T ; GUEST ARTHUR J

International class
(IPC 8-9): B65D39/00 B65D39/04 B65D47/06 (Advanced/Invention);
B65D39/00 B65D47/06 (Core/Invention)

International class
(IPC 1-7): B65D39/00

CPC: B65D39/00 B65D39/04 B65D47/06

European class: B65D39/00 B65D39/04 B65D47/06

US class: 215/307

[Classification Explorer](#)

Cited documents: US3019932 A, US2931230 A, US2918167 A, US2849739 A,

Forward Citations: US9199768, EP0069474,

Abstract:

Source: US3195757A (Claim 1) 1. In a device for closing the neck of a material containing bottle or tie like, the improvement which comprises a hollow internally cylindrical shaped and externally frusto-conical shaped stoppering element formed of a temperature cured polyvinyl chloride resin, of a hardness between approximately 60 and 64 Shore-A, an elongation under tension of approximately 400% and a density of approximately 1.2, and including plasticizers stabilized against degradation by heat or ultraviolet light.

203) Family number: 2331995 (US4342400A)

© PatBase

Title: Tamper indicating closure and pressurized container

Priority: CA19810385193 19810903 US19800185888 19800910

Family:

Publication number	Publication date	Application number	Application date
CA1154402 A1	19830927	CA19810385193	19810903
US4342400 A	19820803	US19800185888	19800910

Probable Assignee: PRECISION PLASTIC PROD

Assignee(s):^(std): PRECISION PLASTIC PROD ; PRECISION PLASTIC PRODUCTS COR

Assignee(s): PRECISION PLASTIC PRODUCTS CORP ; LLERA SANTOS AA

Inventor(s):^(std): LLERA SANTOS A A

Inventor(s): LLERA SANTOS AA

Agent(s): MARKS AND CLERK

International class
(IPC 8-9): [B65D39/00](#) [B65D41/48](#) [B65D55/06](#) (Advanced/Invention);
[B65D39/00](#) [B65D41/32](#) (Core/Invention)

International class
(IPC 1-7): [B65D39/00](#) [B65D41/48](#) [B65D55/06](#)

CPC: [B65D39/00](#) [B65D39/0017](#) [B65D39/0023](#) [B65D41/485](#) [B65D2101/0038](#) [B65D2539/003](#)

European class: [B65D39/00](#) [B65D39/00F2](#) [B65D39/00F3](#) [B65D41/48B](#) [L65D101/00A3C](#) [L65D339/02](#)
[L65D539/00Y2](#)

US class: [215/256](#)

[Classification Explorer](#)

Cited documents: US4109816 A, US4098422 A, US4043475 A, US3946891 A, US3927784 A, US3924771 A, US3559833 A, US3441161 A, US3109547 A, US3032226 A, US2993612 A, US2950834 A, GB922181 A, DE1273354 B,

Forward Citations: WO8802340, WO10047616, US9555933, US8573424, US7743952, US6102225, US5971183, US5740933, US5472106, US5423441, US5207783, US5097974, US4984701, US4834252, US4597500, US4526283, US4417666, US2016039580, US2015027976, US2011024383, US2009166315, US2008093396, US2005284839, US2005274724, US2005167390, JP2008056297, EP1598282, EP1494934, EP1494934, EP1494934, EP0261645, EP0261645, EA017374, DE19712364, AU606616, AU2003203053,

Abstract:

Source: US4342400A A tamper indicating closure for use in combination with a container for spirits or liquors having a retaining means thereon, said closure having a crown with a plug portion dependent therefrom and adapted to engage the interior surface of the neck of the container, a skirt comprising a side wall, tear-away portion, and tamper indicating portions, depending from said crown and adapted to engage the external surface of said container wherein the tamper indicating portion is adapted to fit over said retaining means so as to be substantially unremovable therefrom when the closure is fully placed on the container, said closure only being removable by first removing the tear-away portion with the tamper indicating portion remaining on the container so as to indicate tampering to the consumer.

204) Family number: 1211397 (US3926348A)

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Title: POURING FITMENT WITH FILTER**Priority:** US19750540876 19750114

Family:	Publication number	Publication date	Application number	Application date
	<u>US3926348 A</u>	19751216	US19750540876	19750114

Probable Assignee: SAFAMA**Assignee(s):**^(std): LUTZKER ROBERT S ; SAFAMA**Inventor(s):**^(std): LUTZKER ROBERT S

International class
^{(IPC 8-9):} B65D41/28 B65D47/12 (Advanced/Invention);
B65D41/02 B65D47/12 (Core/Invention)

International class
^{(IPC 1-7):} B28B11/16 B28B13/02 B28B19/00 B28B5/02 B65D25/48

CPC: B65D41/28 B65D47/121**European class:** B65D41/28 B65D47/12A**US class:** 222/189 222/189.07 222/563 222/567[Classification Explorer](#)**Cited documents:** US3434636 A, US3090531 A, US3047195 A, US2885084 A, US2848145 A,

Forward Citations: WO06095119, WO0132523, USRE46506, USRE45611, USD730730, USD701765, USD678767, USD487227, US9731870, US9580225, US9314121, US9027774, US8875914, US8833611, US8701910, US8313644, US8205541, US8123086, US7946444, US7537141, US7451897, US7213727, US7185775, US6915927, US6901230, US6845887, US6751431, US6609639, US5983059, US5975360, US5829644, US5799836, US5616242, US5573144, US5431813, US5417860, US4708260, US4605225, US4555046, US4133462, US4066187, US2016229604, US2016214767, US2016114945, US2014131398, US2013202757, US2012272831, US2012241453, US2012097633, US2011290822, US2010011967, US2008308567, US2008282908, US2007017934, US2006151426, US2005184026, US2004161267, US2004129738, US2004079766, GB2416349, GB2409448, GB2409448, GB2409201, GB2409201, EP1755970, EP1755970,

Abstract:

Source: US3926348A A pourer for resealing partially consumed bottles of wine includes a fitment for securement across the open neck of the bottle. The fitment includes a lower tubular member disposed interiorly of the neck with a series of radial lips for engaging the internal neck walls for securing the fitment in place and providing sealing zones for preventing leakage of the bottle contents during pouring. A tubular extension projects upwardly from the lower tubular member and includes an outwardly flared lip for dripless pouring. A radial flange intermediate the fitment ends rests on top of the bottle neck to provide another sealing zone against leakage during pouring. A coaxial apron depends downwardly from the flange and engages the outer surfaces of the neck to provide additional sealing and securement of the fitment in place. A screen or filter may be interposed interiorly across the central bore of the fitment to prevent sediment and pieces of cork from being dispensed during pouring. A removable cap is placed over the tubular extension to seal the pouring lip and consequently the bottle contents during storage. Primary Examiner—Robert B. Reeves Assistant Examiner—David A. Scherbel 4 Claims, 5 Drawing Figures

0) GB741427A – IMPROVEMENTS IN OR RELATING TO POURERS FOR FLUI...

205) Family number: 20143587 (GB741427A)

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Title: Improvements in or relating to pourers for fluids

Priority: GB19530001538 19530119

Family:	Publication number	Publication date	Application number	Application date
	<u>GB741427 A</u>	19551207	GB19530001538	19530119

Probable Assignee: JAMES REYNOLDS

Assignee(s):^(std): JAMES REYNOLDS

International class
(IPC 8-9): B65D47/06 (Advanced/Invention);
B65D47/06 (Core/Invention)

International class
(IPC 1-7): B65D47/26

CPC: B65D47/063

European class: B65D47/06A1

[Classification Explorer](#)

Forward Citations: WO9104198, US5031802, US3326421, US3154226, US2895655, JP2015528775, FR2643045, EP0383644, DE1202158, CN103387083,

206) Family number: 30128525 (US2002182101A)

© PatBase

Title: Process and device for plasma surface treatment

Priority: EP20010120974 20010831 EP20010810318 20010327 EP20010810915 20010920
 EP20020708589 20020326 EP20020762661 20020902 EP20011810318 20010327
 EP20011120974 20010831 EP20011810915 20010920 US20020080495 20020222
 WO20021B03551 20020902 US20030397674 20030326 WO20021B01001 20020326

Family:

Publication number	Publication date	Application number	Application date
AT301496 E	20050815	AT20020762661T	20020902
AT373314 E	20070915	AT20020708589T	20020326
AU2002242923 AA	20021008	AU20020242923	20020326
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CN100437883 C	20081126	CN20028007383	20020326
CN1511333 A	20040707	CN20028007383	20020326
DE60205493 D1	20050915	DE20026005493	20020902
DE60205493 T2	20060601	DE20026005493T	20020902
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EP1420876 B1	20050810	EP20020762661	20020902
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MXPA03008615 A1	20050307	MX2003PA08615	20020326
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RU2283667 C2	20060920	RU20030131340	20020326
US2002182101 AA	20021205	US20020080495	20020222
US2003165636 AA	20030904	US20030397674	20030326
US2004238345 AA	20041202	US20040486888	20040212
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WO02076511 A2	20021003	WO20021B01001	20020326
WO02076511 A3	20030417	WO20021B01001	20020326
WO03018185 A2	20030306	WO20021B03551	20020902
WO03018185 A3	20030918	WO20021B03551	20020902

Probable Assignee: APIT CORP SA

Assignee(s):^(std): CHEREPANOV ALEXANDER ; KOULIK PAVEL ; SAMSONOV MIKHAIL ; PETROV EVGUENII ; SAMSONOV MICKHAIL ; IVANOV MARK ; APIT CORP S A ; APIT CORP SA ; APIT CORP SA SION ; APIT CORP SION SA ; APIT KORP S A

Assignee(s): APIT KORP SA ; APIT ; APIT CORP

Inventor(s):^(std): A CHEREPANOV ; CHEREPANOV A ; CHEREPANOV ALEKSANDR ; CHEREPANOV ALEXANDER ; EVGUENII PETROV ; IVANOV MARK ; KOULIK P ; KOULIK PAVEL ; KULIK PAVEL ; M SAMSONOV ; P KOULIK ; PETROV EVGENIJ ; PETROV EVGUENII ; SAMSONOV M ; SAMSONOV MICKHAIL ; SAMSONOV MIKHAIL ; SAMSONOV MIKHA

L

Inventor(s): PAVEL KOULIK ; ALEXANDER CHEREPANOV ; MICKHAIL SAMSONOV ; MIKHA L SAMSONOV

Agent(s): MOTOMIYA TERUHISA; FUJINO IKUO; TAKANASHI NORIMICHI; UBUKATA KAZUO; KATO NOBUAKI; TAKAHASHI SEIICHIRO; OCHI TAKAO; USUI SHINICHI; MATSUI TAKAO; OKABE MASAO; YOSHIZAWA HIROSHI; ASAH I NOBUMITSU; CLIFFORD W; KRIEG DEVAULT LLP

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

International class
(IPC 8-9): A61L2/14 B01J19/08 B01J2/00 B01J2/16 B05D3/06 B05D3/12 B05D7/00 B06B1/02 B08B7/00 B65D23/02 B65D23/08 B65D25/34 H01J1/00 H01J37/32 H01L21/304 H01L21/3065 H05H1/24 H05H1/30 H05H1/46 (Advanced/Invention);
H05H1/03 (Advanced/Non-invention);
A61L2/02 B01J19/08 B01J2/00 B01J2/16 B05D7/00 B08B7/00 B65D23/00 B65D25/00 H01J1/00 H01J37/32 H01L21/02 H05H1/24 H05H1/26 (Core/Invention)

International class
(IPC 1-7): A61L A61L0/00 A61L2/00 A61L9/00 A62B7/08 B01J19/08 B01J19/12 B01J2/00 B01J2/16 B06B1/00 B08B7/00 B65D23/02 B65D23/08 B65D25/34 C23C16/00 H01J1/00 H01J37/32 H01L21/304 H01L21/3065 H05F3/00 H05H1/24 H05H1/30

CPC: H01J37/32623 A61L2/14 H05H1/2475 H01J37/32321 B01J2/006 H01J37/3244 H01J37/32825

European class: A61L2/14 B01J2/00D H01J37/32D1C H01J37/32D2 H01J37/32M12 H01J37/32O18D2 H01J37/32O2 H01J37/32O8 H05H1/24 T01J237/325D T01J237/325G T01J237/32C9

US class: 118/723 118/723.00RS 118/723E 118/723MP 118/723R 204/164 216/2 216/2S 216/67 216/67S 422/121 422/121S 422/123 422/123S 422/128 422/128S 422/186.04 422/186.040S 422/186.05 422/186.050S 422/22 422/22S 422/28 422/28S 422/32 422/32S 422/4 422/4P 427/212 427/215 427/535 427/540 427/560 427/569 427/569P 427/600

[Classification Explorer](#)

Cited documents: WO9946964 A1, WO9722369, WO0103163 A1, WO0054893 A1, US7172790 BB, US6653591 BA, US6610368 BB, US6480074 BA, US6365235 BB, US6156114 A, US6113700 A, US6015597 A, US5932302 A, US5876683 A, US5874134 A, US5846600 A, US5738920 A, US5618619 A, US5609921 A, US5569502 A, US5556418 A, US5547716 A, US5408066 A, US5364562 A, US5340618 A, US5298296 A, US5254237 A, US5104634 A, US4981717 A, US4937094 A, US4859493 A, US4612432 A, US4341111 A, US3247014 A, US2002160125 AA, US2001018127 AA, RU20000890, JP9229913 A2, JP9157845 A2, JP9141087 A2, JP8318590 A2, JP8078745, JP8078390 A2, JP8055851 A2, JP7155640 A2, JP7155529 A2, JP7106092 A2, JP63292628 A2, JP6134296 A2, JP4357662 A2, JP2002539327 T2, JP2001077097 A2, JP2001035691 A2, JP2000169977 A2, JP2000077372 A2, JP11333244 A2, JP1111333, JP11087098 A2, JP10033976 A2, JP08078745, GB1098693, DE4128779 A1, DE3900798, DE3900768 C1, DE10003982 A1,

Forward Citations: WO17177120, WO17063662, WO16075750, WO15153317, WO13152872, WO13151898, WO12113568, WO08138915, WO08138901, WO07115309, US9764093, US9737878, US9719727, US9687811, US9664626, US9662450, US9599405, US9597662, US9592492, US9586179, US9572526, US9570273, US9566568, US9554968, US9550694, US9545360, US9538630, US9533909, US9533299, US9533289, US9522388, US9517448, US9511352, US9498751, US9458536, US9433938, US9427732, US9332636, US9308524, US9302260, US9272095, US9216406, US9216398, US9186663, US9180423, US9156025, US9149797, US9132404, US9126191, US9119309, US9090475, US9089840, US9089829, US9041408, US9039916, US9023754, US8992820, US8969237, US8956574, US8932514, US8906498, US8906316, US8893651, US8877357, US8865611, US8859035, US8828328, US8821786, US8803025, US8759248, US8679433, US8669202, US8668803, US8663571, US8652992, US8604398, US8586944, US8575059, US8574408, US8557727, US8545652, US8524631, US8507402, US8507401, US8481449, US8470112, US8399795, US8268405, US8258486, US8240190, US8142619, US8124013, US8051724, US7931858, US7759661, US7491344, US7288293, US2017111987, US2014354154, US2011311737, US2011144382, US2011143933, US2011143926, US2011143916, US2011036802, US2010304146, US2010247373, US2009084163, US2008073549, US2007235427, US2006172085, US2004089632, US2003165636, NL1033958, NL1033408, JP5795427, JP5628472, JP2013008770, JP2010516850, JP2009038025, JP2007533861, EP2178350, EP2178350, EP1497846, DE102012206081, CN104245525, CN104245525,

Abstract:

Source: US2002182101A In the present invention, a process for plasma treatment of an object's surface to be treated comprises the creation of a plasma, the application of the plasma to the surface to be treated, and the excitation of the surface to be treated, such that it undulates. The energy for excitation of the surface may come from the process creating the plasma, from an external source, or from a combination of these two sources. The vibration of the surface to be treated preferably takes place while the plasma is being applied to the surface to be treated, but depending on the treatment to carry out, it may also take place just prior to and/or just after the application phase.

0) DE102006017117B4 – GEFALTETE GETRAENKEBEHAELTERBOX

207) Family number: 39346324 (DE102006017117B4)

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Title: Gefaltete Getraenkebehaelterbox

Priority: DE200610017117 20060410

Family:	Publication number	Publication date	Application number	Application date
	<u>DE102006017117 A1</u>	20071011	DE200610017117	20060410
	<u>DE102006017117 B4</u>	20080214	DE200610017117	20060410

Probable Assignee: LORENZ TORSTEN

Assignee(s):^(std): LORENZ TORSTEN

Inventor(s):^(std): LORENZ TORSTEN

International class B65D5/48 B65D71/38 (Advanced/Invention);
(IPC 8-9): B65D5/48 B65D71/06 (Core/Invention)

CPC: B65D5/48038 B65D71/36 B65D2571/00141 B65D2571/00425 B65D2571/0045
B65D2571/00574 B65D2571/00666 B65D2571/00796 B65D2571/00802

European class: B65D5/48B1E B65D71/36 L65D571/00Y1A1 L65D571/00Y3C1C L65D571/00Y4A2
L65D571/00Y5A4 L65D571/00Y6A2 L65D571/00Y7D L65D571/00Y7E

[Classification Explorer](#)

Cited documents: US3306439, US2006027586, DE3200985, DE29707814 U,

Abstract:

Source: DE102006017117B4 The box (32), for a number of bottles (36), is open at one side formed by a folding flat material e.g. of cardboard to give a base (38) and side walls (42,44,46,48), bonded at their edges. An inner grid set (72) gives compartments for the bottles. Openings (50) are in two walls as hand grips.

Title: BOTTLE CLOSURE**Priority:** US19340719989 19340411

Family:	Publication number	Publication date	Application number	Application date
	<u>US2021259 A</u>	19351119	US19340719989	19340411

Probable Assignee: CHAMPION FOUNDRY AND MACHINE CO**Assignee(s):^(std):** CHAMPION FOUNDRY AND MACHINE CO**Inventor(s):^(std):** MAGNUSON HENRY O

International class B65D39/12 (Advanced/Invention);
^{(IPC 8-9):} B65D39/00 (Core/Invention)

International class B65D39/12 F16J13/14
^{(IPC 1-7):}

CPC: B65D39/12**European class:** B65D39/12**US class:** 215/361[Classification Explorer](#)

Forward Citations: WO02083515, WO0128881, US7347338, US6915920, US3937350, US3756480, US3317071, US3307731, US3149762, US2974813, US2937661, US2874750, US2755952, US2654156, US2630039, US2584611, US2549404, US2507680, US2439628, US2012312770, US2004178167, US2004112856, US2003003023, ES2259485, DE2022004, DE1157101, CN103112651, AU2001255182,

Abstract:

Source: US2021259A 1. In s bottle closure of the composite expanding stopper type, the combination with s. hollow rubber stopper adapted. to enter the neck of a. bottle and formed with a. closed lower end, B5 of a plunger movable endwise within said stopper to stretch the latter endwise through contact of its lower end with the closed lower end of the stopper, and cooperating means on said stopper and plunger operating to automatically expand the stopper into sealing engagement with the internal wall of the bottle neck under endwise contraction of the stretched stopper.

209) Family number: 3555333 (FR2357432A)

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Title: DISPOSITIF PERFECTIONNE DE BOUCHAGE DE FLACON OU AUTRE RECIPIENT
SNAP-ON BOTTLE CAP – HAS INNER PORTION WITH SPURS PRESSED OF RIDGES
ON BOTTLE NECK AND RELEASED BY TURNING THROUGH 90 DEGREES

Priority: FR19760021157 19760709

Family:	Publication number	Publication date	Application number	Application date
	<u>FR2357432 A1</u>	19780203	FR19760021157	19760709
	<u>FR2357432 B1</u>	19820416	FR19760021157	19760709

Probable Assignee: SO VER PLAST

Assignee(s):^(std): SO VER PLAST

Inventor(s):^(std): LAPORTE DANIEL

Inventor(s): DANIEL LAPORTE

International class
(IPC 8-9): B65D41/02 B65D51/18 (Advanced/Invention);
B65D41/02 B65D51/18 (Core/Invention)

International class
(IPC 1-7): B65D41/02

CPC: B65D41/02 B65D51/18 B65D2251/0015 B65D2251/0078

European class: B65D41/02 B65D51/18 L65D251/00Y2D L65D251/00Y6D

[Classification Explorer](#)

Cited documents: GB1246598, FR2340866, FR2318795, FR1262673, FR1227748, DE2130098, BE660783,

Forward Citations: US4179044, FR2454418, FR2430364, EP0007274,

Abstract:

Source: FR2357432A L'invention a pour objet un dispositif perfectionne de bouchage de flacon ou autre recipient. Le dispositif comprend un capuchon 1 qui contient une capsule 2 pouvant effectuer un déplacement dans le sens de la hauteur entre deux surfaces d'arrêt 10 et 11, cette capsule 2 comportant des ergots intérieurs 3 souples et symétriques qui, dans l'opération de fermeture, s'effacent au passage des crans extérieurs 8, également symétrique, du goulot 7 du flacon et qui ressortent sous ces crans 8 pour assurer le maintien de la capsule et l'étanchéité. Applications: bouchage industriel des flacons. The bottle cap consists of an exterior, rectangular cover (1) provided with two internal external annular projections (10, 11) and an interior circular sleeve (2) with a portion (4), which fits inside the bottle neck. The sleeve also has two spurs (3) which clip over ridges (8), disposed diametrically opposite on the bottle neck, which also has a lower ridge (9). The collar of the bottle (5) has conical ridges (14) and a shoulder (6). To seal the bottle, the cover is pressed down onto the sleeve forcing the spurs over the ridges. To release the cap, the cover and sleeve are rotated through 90 deg., this raises the cover w.r.t. the sleeve and places the spurs opposite spaces on the ridges and the lower internal projection of the cover under the edge of the sleeve thus allowing the cap to be lifted off.

Title: Improvements in and relating to closure devices for flasks or bottles**Priority:** FR19650007474 19650301

Family:	Publication number	Publication date	Application number	Application date
	BE677094 A	19660718		19660228
	CH438063 A	19670615	CH19660002744	19660225
	FR1455833 A	19661021	FR19650007474	19650301
	GB1075526 A	19670712	GB19660008665	19660228

Probable Assignee: AUGROS JACQUES JULIEN**Assignee(s):**^(std) AUGROS JACQUES JULIEN ; JACQUES JULIEN AUGROS**Inventor(s):**^(std) AUGROS JACQUES JULIEN ; JACQUES JULIEN AUGROS**Inventor(s):** JULIEN AUGROS JACQUES

International class [B65D41/08](#) [B65D50/04](#) (Advanced/Invention);
^{(IPC 8-9):} [B65D41/04](#) [B65D50/00](#) (Core/Invention)

International class [B65D17/06](#) [B65D35/44](#) [B65D41/08](#) [B65D55/12](#)
^{(IPC 1-7):}

CPC: [B65D41/08](#) [B65D50/04](#)**European class:** [B65D41/08](#) [B65D50/04](#)[Classification Explorer](#)**Forward Citations:** WO17001854, US4177904, GB2213476, FR2544696, FR2539394, FR2187628, ES2178904,**Abstract:**

Source: GB1075526A 1,075,526. Stoppers. J. J. AUGROS. Feb. 28, 1966 [March 1, 1965], No. 8665/66. Heading B8T. To prevent accidental opening of an internally threaded Skirted stopper (2), Fig. 1 (not shown), a ring (1) having external threads on to which the stopper is screwed is freely journaled about the neck of the flask c. which the stopper closes. A lower flange (5) of the rotatable ring (1) extends below and beyond the skirt (7) of the stopper. When the flask c. is to be opened, the lower flange (5) of the rotatable ring (1) is held to prevent its rotating, and the stopper (2) is unscrewed. If the flange (5) is not held, the ring (1) and stopper (2) rotate together. The ring (1), which is preferably of plastics, has a shoulder (3) which is snapped over a ridge (4) around the mouth of the flask c. As a modification, the ring-shaped shoulder (3) on the ring (1) may be replaced by a number of projections. The stopper (2) has an inner ring-shaped flange (11) which seats against the inside of the flask c. neck. In a modification, the ring (1), Fig. 2 (also not shown), is snapped behind a ring-shaped ridge (12) around the neck of and below the usual stopper threads on the neck of a bottle.

0) US4371087A – PACKAGE FOR PERFUME PRODUCTS

211) Family number: 19147424 (US4371087A)

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Title: Package for perfume products

Priority: CA19800367497 19801223 CH19800009463 19801222 FR19800000001 19800102
FR19800000001 19800102 NL19800007119 19801231 NL19800007119 19801231

Family:

Publication number	Publication date	Application number	Application date
<u>BE886877 A</u>	19810624	BE19800203334	19801224
<u>BE886877 A1</u>	19810624	BE19800203334	19801224
<u>BR8008617 A</u>	19810728	BR19800008617	19801230
<u>CA1150192 A1</u>	19830719	CA19800367497	19801223
<u>CH639617 A</u>	19831130	CH19800009463	19801222
<u>DE3049317 A1</u>	19810910	DE19803049317	19801229
<u>DE3049317 C2</u>	19900329	DE19803049317	19801229
<u>ES269616 U</u>	19830901	ES19800269616U	19801223
<u>ES269616 Y</u>	19840316	ES19800269616U	19801223
<u>ES269616 Y1</u>	19840328	ES19800269616U	19801223
<u>FR2473015 A1</u>	19810710	FR19800000001	19800102
<u>FR2473015 B1</u>	19840518	FR19800000001	19800102
<u>FR2496601 A2</u>	19820625	FR19810019662	19811020
<u>FR2496601 B2</u>	19841207	FR19810019662	19811020
<u>GB2066765 A1</u>	19810715	GB19800041279	19801223
<u>GB2066765 B2</u>	19840215	GB19800041279	19801223
<u>HK63087 A</u>	19870904	HK19870000630	19870827
<u>IT1134898 A</u>	19860820	IT19800026954	19801224
<u>IT8026954 A0</u>	19801224	IT19800026954	19801224
<u>JP1318009 C3</u>	19860529	JP19800184951	19801225
<u>JP57107113 A2</u>	19820703	JP19800184951	19801225
<u>JP60045521 B4</u>	19851009	JP19800184951	19801225
<u>LU83040 A</u>	19810327	LU19800083040	19801229
<u>MX153042 A</u>	19860722	MX19810185471	19810105
<u>NL189896 B</u>	19930401	NL19850001498	19850524
<u>NL189896 C</u>	19930901	NL19850001498	19850524
<u>NL8007119 A</u>	19810803	NL19800007119	19801231
<u>NL8501498 A</u>	19850902	NL19850001498	19850524
<u>NL8501498 A1</u>	19850902	NL19850001498	19850524
<u>US4371087 A</u>	19830201	US19800221363	19801229

Probable Assignee: CARTIER INT BV

Assignee(s):^(std): CARTIER INT BV ; KARUCHIE INTERN BV

Assignee(s): KARUTEIE INTERN BV ; SAUJET CLAUDE ; CARTIER INT TE AMSTERDAM BV ;
CARTIER INTERNATIONAL B V ; CARTIER INTERNATIONAL B V AMSTERDAM NL ;
CARTIER INTERNATIONAL B V TE AMSTERDAM ; CARTIER INTERNATIONAL BV ;
SOCIETE DE DROIT NEERLANDAIS CARTIER INT

Inventor(s):^(std): CLAUDE SAUJET ; KUROODO SOJIYU ; KUROODO SOJU ; SAUJET C ; SAUJET
CLAUDE

Inventor(s): SAUJET CLAUDE SAINT MAURICE FR

Agent(s): ROBIC ROBIC AND ASSOCIES ASSOCIATES

International class A45D34/00 A45D34/02 B65D85/00 B65D85/30 (Advanced/Invention);
(IPC 8-9): A45D34/00 B65D85/00 (Core/Invention)

International class A45D34/00 A45D34/02 A45D34/04 A47F7/28 B65D23/00 B65D23/08 B65D25/08 B65D25/24 B65D85/00 B65D85/30
(IPC 1-7):

CPC: A45D34/02 A45D2034/002 A45D2034/005

European class: A45D34/02 K45D34/00A K45D34/00C

US class: 215/12.1 215/12R 215/1R 215/395

[Classification Explorer](#)

Cited documents: US3080989 A, US2889065 A, US2859085 A, US2808090 A, US2710109 A, US2568371 A, US2364753 A, US2328338 A, US2169426 A, US2077216 A, US1734528 A, US1657312 A, US1073897 A, GB718172 A, GB712211 A, GB2066765 A1, GB1200140 A, FR920729 A, FR2357437 A1, FR2013654 A1, FR1214726 A, DE1557284 A1, CH421406 A, CA698167 A,

Forward Citations: WO9531380, WO9304609, WO09077013, USD779124, USD764912, USD741723, USD734164, USD675446, USD627663, USD590662, USD487660, USD448298, USD423924, US9387976, US8127953, US7766192, US6481590, US6371334, US6186348, US5695090, US5299700, US4892206, US4869382, US2017000237, US2014042195, US2009120893, US2008041749, US2007158352, US2007154665, US2007068968, US2007000948, US2006117717, JP7303516, JP3468840, FR2680654, FR2670661, FR2609691, FR2496601, EP0758985, EP0455603, EP0279714, DE19545078,

Abstract:

Source: US4371087A A package is provided for liquids and in particular for perfumery products, characterized by the fact that it includes a case and a container, preferably of glass, the case receiving the container, and supporting it by its bottom, and by two lateral parts. The bottom of the receptacle has projecting downwardly, a locking element of the bayonet type which cooperates with an opening of corresponding shape in the case. The top of each of the lateral parts of the case has an abutment which cooperates with an abutment correspondingly placed on each side of the receptacle to delimit the angular position of this latter with respect to the case, between one position which permits engaging the bayonet in the case, and another position which corresponds to the use position of the package. An elastic arm placed along the height of each lateral part of the case cooperates with the projections on the container for, on the one hand guiding the receptacle toward its use position on the case by permitting the engagement of its bayonet type device, and on the other hand, holding the container elastically axially and in rotation on the case while the package is in the position of use.

0) GB1386141A – PROTECTIVE SLEEVE FOR BOTTLE NECKS

212) Family number: 30159135 (GB1386141A)

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Title: PROTECTIVE SLEEVE FOR BOTTLE NECKS

Priority: GB19720016097 19710407

Family:	Publication number	Publication date	Application number	Application date
	<u>GB1386141 A</u>	19750305	GB19720016097	19710407

Probable Assignee: JOHNSEN JORGENSEN PLASTICS LTD

Assignee(s):^(std): JOHNSEN JORGENSEN PLASTICS LTD

International class B65D41/62 (Advanced/Invention);
(IPC 8-9): B65D41/00 (Core/Invention)

International class B65D41/62
(IPC 1-7):

CPC: B65D41/62

European class: B65D41/62

[Classification Explorer](#)

Forward Citations: WO9633918, US5511679, FR2637260,

Abstract:

Source: GB1386141A 1386141 Bottle caps JOHNSEN and JORGENSEN (PLASTICS) Ltd 19 March 1973 [7 April 1972] 16097/72 Heading B8T A protective sleeve for wine bottles has a tear band 8 with tab 9 defined by cut-out portions 14, 15 along the top and lines of weakness 10, 11 around the skirt. Internal projections (17) Fig. 2 (not shown) help to secure the sleeve when it is pushed on to the neck of a bottle. The sleeve has two annular recesses (18), (19), Fig. 2 (not shown), and a thick portion (20) designed so that the annular flange of a wine bottle (4), Fig. 1 (not shown), is evident even when the sleeve is in place.

213) Family number: 10636517 (US5299705A)

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Title: Cup for a container and an assembly of cup and container
Priority: EP19930303750 19930514 EP19930303750 19930514 GB19920010922 19920522
Family:

Publication number	Publication date	Application number	Application date
CY2149 B1	20020823	CY19980000028	19980922
DE69306036 D1	19970102	DE19936006036	19930514
DE69306036 T2	19970313	DE19936006036T	19930514
DE69329626 D1	20001207	DE19936029626	19930514
DE69329626 T2	20010523	DE19936029626T	19930514
EP0571141 A1	19931124	EP19930303750	19930514
EP0571141 B1	19961120	EP19930303750	19930514
EP0726048 A2	19960814	EP19960200992	19930514
EP0726048 A3	19961106	EP19960200992	19930514
EP0726048 B1	20001102	EP19960200992	19930514
ES2095570 T3	19970216	ES19930303750T	19930514
ES2151986 T3	20010116	ES19960200992T	19930514
GB2267212 A1	19931201	GB19920010922	19920522
GB2267212 B2	19960911	GB19920010922	19920522
GB2295310 A1	19960529	GB19960001322	19920522
GB2295310 B2	19960911	GB19960001322	19920522
GB9210922 A0	19920708	GB19920010922	19920522
GB9601322 A0	19960327	GB19960001322	19920522
US5299705 A	19940405	US19930065921	19930521

Probable Assignee: THERMOS LLC
Assignee(s):^(std): THERMOS LTD
Assignee(s): THERMOS LTD BRENTWOOD ; THERMOS LTD BRENTWOOD ESSEX GB ; THERMOS LIMITED ; THERMOS LLC
Inventor(s):^(std): DETTMAR GARY
Inventor(s): DETTMAR GARY BRAINTREE ESSEX CM7 6PW GB ; GARY DETTMAR
Designated states: DE ES FR GB IT SE
International class [A47G19/23 A47J41/00](#) ^(Advanced/Invention)
(IPC 8-9):
International class [A47G19/23 A47J41/02 B65D21/00 B65D41/26](#)
(IPC 1-7):
CPC: [A47G19/23 A47J41/0083](#)
European class: [A47G19/23 A47J41/00L](#)
US class: [220/23.83 220/23.86](#)

[Classification Explorer](#)

Cited documents: US5086926 A, US4978023 A, US4685588 A, US3627162 A, US3373888 A, US3348716 A, US3327881 A, US3013492 A, US1937939 A, US1665179 A, US1648992 A, US1427259 A, GB602185 A, GB26157, GB2078094 A1, GB190726157 A, GB190216778 A, GB16778, GB1579133 A, CH255274 A,

Forward Citations: WO04105563, USD453284, USD450982, USD418374, US8998020, US8474648, US6764622, US6536620, US6530496, US6332557, US6186352, US5884580, US2011272410, US2004080069, EP0811347, DE202004012622, CN105708275,

Abstract:

Source: US5299705A A cup 1 and a container assembly including the cup 1 are predominantly moulded in plastics. The cup has a bowl 2 with a cylindrical portion 4 having a rim 5 and from which extends a conical portion 6. External flanges 20B and 21B are provided on the conical portion 6 and internal flanges 10 and 11 are provided on the portion 4 so that two cups 1 and 1A can be bayonet fitted together by engagement of the internal flanges 10, 11 of one cup with the external flanges 20B and 21B respectively of the other cup. Co-operation between an abutment face of the internal flange 11 and an external projection 30 provides stop means which reacts between the two cups to predetermine a rotational condition of the two cups. Securing means provided by co-operation of a stud 35 and dimple 36 between the two cups maintains the cups at said predetermined condition of rotation. The cup may have a handle 28 and when the stop means and securing means is effective the handles 8 of the two cups are in alignment. A cup 1 engages as a bayonet fit on the container body 41 in an identical manner to the bayonet fit provided between the two cups 1 and 1A. The container 40 may have a handle 47 and securing means and stop means provided between the container and the cup fitted thereto (similarly to between the cups 1 and 1A) preferably locates the cup handles 8 and container handle 47 in alignment.

215) Family number: 15524891 (US7438704B)

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Title: OPEN INSTILLATION CONTAINER AND METHOD OF MANUFACTURING THE CONTAINER

Priority: JP19990230651 19990817 JP20000243923 20000811 KR20027001990 20020215
WO2000JP05457 20000814 JP20050012134 20050119

Family:	Publication number	Publication date	Application number	Application date
	AT482685 E	20101015	AT20000951998T	20000814
	AU200064769 A1	20010313	AU20000064769	20000814
	AU200064769 A5	20010313	AU20000064769D	20000814
	AU765272 B2	20030911	AU20000064769	20000814
	CA2380612 AA	20020214	CA20002380612	20000814
	CA2380612 C	20100105	CA20002380612	20000814
	CN100353930 C	20071212	CN20008014445	20000814
	CN1379652 A	20021113	CN20008014445	20000814
	CZ20020559 A3	20030115	CZ20020000559	20000814
	CZ302784 B6	20111109	CZ20020000559	20000814
	DE60045036 D1	20101111	DE20006045036	20000814
	EP1230905 A1	20020814	EP20000951998	20000814
	EP1230905 A4	20070124	EP20000951998	20000814
	EP1230905 B1	20100929	EP20000951998	20000814
	HU0202845 AB	20021228	HU20020002845	20000814
	HU0202845 AC	20030228	HU20020002845	20000814
	HU229386 B1	20131128	HU20020002845	20000814
	JP2001120639 A2	20010508	JP20000243923	20000811
	JP2005185846 A2	20050714	JP20050012134	20050119
	JP3694446 B2	20050914	JP20000243923	20000811
	JP4681306 B2	20110511	JP20050012134	20050119
	KR100509801 B1	20050823	KR20027001990	20000814
	KR100544221 B1	20060123	KR20057003724	20000814
	KR20020035854 A	20020515	KR20027001990	20000814
	KR20050048622 A	20050524	KR20057003724	20000814
	MXPA02001701 A1	20020806	MX2002PA01701	20000814
	NO20020776 A	20020416	NO20020000776	20020215
	NO20020776 A0	20020215	NO20020000776	20020215
	NO323658 B1	20070618	NO20020000776	20020215
	NZ517146 A	20040730	NZ20000517146	20000814
	PL197728 B1	20080430	PL20000353640	20000814
	PL353640 A1	20031201	PL20000353640	20000814
	TW495478 B	20020721	TW20000116547	20000816
	US7438704 BA	20081021	US20000049733	20000814
	VN5595 A1	20060525	VN20020000171	20000814
	WO0112124 A1	20010222	WO2000JP05457	20000814

Probable Assignee: SANTEN PHARMACEUTICAL CO LTD

Assignee(s):^(std): KAWASHIMA YOICHI ; KUSU YUKIO ; SANTEN PHARMA CO LTD ; SANTEN PHARMACEUTICAL CO ; SANTEN PHARMACEUTICAL CO LTD

Assignee(s): SANTEN PHARMACEUTICAL CO LTD OSAKA ; SANTEN PHARMACEUTICAL CO LTD SANTEN... ; SANTEN PHARMACEUT CO LTD ; SANTEN PHARMA CO

Inventor(s):^(std): YUKIO KUSU ; YOICHI KAWASHIMA ; KUSU YUKIO ; KUSU ; KAWASHIMA ; KAWASHIMA YOICHI ; KAWASHIMA YO ICHI

Inventor(s): KAWASHIMA YOICHI SANTEN PHARMACEUTICAL CO LTD ; KUSU YUKIO SANTEN PHARMACEUTICAL CO LTD ; YO ICHI KAWASHIMA

Agent(s): GRIFFITH HACK; MARKS AND CLERK; LEMCKE BROMMER AND PARTNER; THE WEBB LAW FIRM; WEBB LAW FIRM

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

International class
(IPC 8-9): A61F9/00 A61J1/00 A61J1/05 B29C49/04 B29C51/08 B29C51/26 B29C57/00 B29C65/78 B65B3/02 B65D1/00 B65D1/02 B65D1/08 B65D1/09 B65D23/10 B65D41/28 B65D47/18 B65D83/00 (Advanced/Invention);
A61F9/00 A61J1/05 B29C49/04 B29C51/08 B29C65/78 B29L22/00 (Advanced/Non-invention);
A61F9/00 A61J1/00 A61J1/05 B29C51/26 B29C57/00 B29C65/78 B65B3/00 B65D1/00 B65D1/02 B65D1/08 B65D1/09 B65D23/10 B65D41/02 B65D47/06 B65D83/00 (Core/Invention);
A61F9/00 B29C49/04 B29C51/08 (Core/Non-invention)

International class
(IPC 1-7): A61J1/00 A61J1/05 B29C51/26 B65B3/02 B65D1/02 B65D1/09 B65D23/00 B65D41/28 B65D83/00

CPC: A61F9/0008 B29C66/71 B65B3/022 B29C49/04 B29C51/08 B29C57/00 B29C65/7882 B29C2791/001 B29C2793/0018 B29C2793/0045 B29C2793/009 B29L2031/7158 B65D1/08 B65D47/18

European class: B29C57/00 B29C65/78M6B B65B3/02B B65D1/08 B65D47/18 L29C49/04 L29C51/08 L29C791/00B L29C793/00B2 L29C793/00E L29C793/00J L29L31/7158

US class: 215/381 215/384 222/205 222/420 222/567 604/212 604/295 604/298
[Classification Explorer](#)

Cited documents: WO9957030 A1, WO9600173 A1, US6129248 A, US5718334 A, US5624057 A, US5464122 A, US5261572 A, US5076474 A, US4723687 A, US4655355 A, US4605398 A, US3945381 A, US2411435 A, US2097912 A, JPS51138446 U, JP9314649 A2, JP9290456 A2, JP7275322 A2, JP6086341 A2, JP60086341 U1, JP60086341, JP555936001977, JP555936/1977, JP53150098 U1, JP53136944 U1, JP51138446 U1, JP51138446 u1, JP51138446 U, JP5085556 A2, JP4117636 A2, JP3212383 A2, JP2896770 A2, JP2052758 A2, JP2001120639 A2, JP2001120638 A2, JP1146552 A2, HU206453 B, HU206453, EP0455916 A2, EP0312725 A2,

Forward Citations: WO10118014, WO10118014, WO07094243, WO06046647, WO05034836, WO05008176, WO04006826, WO03077824, US9751646, US9527239, US8734709, US8506285, US8328775, US8257636, US7503909, US7438704, US7325440, US2014231456, US2014106021, US2011315592, US2011297703, US2010016814, TWI469897, KR101675989, KR101237313, JP5635074, JP4095642, JP2012523328, JP2010111079, JP2007216998, JP2007094243, JP2005131385, EP1647802, EP1647802, CN104609014, CN102149532, CN102149532,

Abstract:

Source: US7438704B A bottomed conical hollow 6 b is formed in a tip end of the container body A formed of a thermoplastic material with a liquid filled and sealed therein simultaneously during the molding process, the hollow having an inside diameter enlarging toward the tip end, and a small-diameter instilling hole 6 c is penetrated through the bottom of the hollow 6 b for controlling, at a set quantity, the liquid pushed out of the container body A.

Title: BOTTLE STOPPER**Priority:** EP20030023427 20031017 US20030682842 20031010

Family:	Publication number	Publication date	Application number	Application date
	AT369300 E	20070815	AT20030023427T	20031017
	DE60315467 D1	20070920	DE20036015467	20031017
	DE60315467 T2	20080103	DE20036015467T	20031017
	EP1526085 A1	20050427	EP20030023427	20031017
	EP1526085 B1	20070808	EP20030023427	20031017
	ES2289223 T3	20080201	ES20030023427T	20031017
	PT1526085 I	20070924	PT20030023427T	20031017
	US2005077263 AA	20050414	US20030682842	20031010

Probable Assignee: ALCIDES OMAR GARCIA**Assignee(s):^(std):** ALCIDES OMAR GARCIA ; GARCIA OMAR ; GARCIA OMAR ALCIDES ; NAVASCUES ANTONIO ; NICIEZA JULIO CESAR ; NICIEZA JULIO**Assignee(s):** JULIO CESAR NICIEZA ; NICIEZA ; JULIO ; ANTONIO NAVASCUES ; CESAR**Inventor(s):^(std):** NAVASCUES ANTONIO ; NICIEZA JULIO ; NICIEZA JULIO CESAR ; GARCIA OMAR ; GARCIA OMAR ALCIDES**Inventor(s):** JULIO CESAR NICIEZA ; ANTONIO NAVASCUES ; OMAR ALCIDES GARCIA**Agent(s):** JOHN S EGBERT HARRISON AND EGBERT**Designated states:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR**International class**
(IPC 8-9): [B65D41/12](#) [B65D41/34](#) [B65D41/62](#) [B65D51/18](#) [B65D51/20](#) (Advanced/Invention);
[B65D41/00](#) [B65D41/02](#) [B65D41/34](#) [B65D51/18](#) (Core/Invention)**International class**
(IPC 1-7): [B65D41/34](#) [B65D41/62](#) [B65D51/18](#) [B65D51/20](#)**CPC:** [B65D41/12](#) [B65D41/62](#) [B65D51/18](#)**European class:** [B65D41/12](#) [B65D41/62](#) [B65D51/18](#)**US class:** [215/251](#) [215/277](#) [220/256.1](#) [220/257.1](#)[Classification Explorer](#)**Cited documents:** US5103989 A, US4896781 A, US4749096 A, US4627548 A, US4540101 A, US3919901 A, US3901403 A, US3887100 A, US3823841 A, US3664536 A, US3374913 A, US3335889 A, US3189208 A, US3158278 A, US2864521 A, US2851183 A, US2806620 A, US2706572 A, US2294260 A, US2041912 A, US1923091 A, US1607756 A, GB337874 A, GB1140840 A, FR2835510 A1, FR2548164 A1, DE619169 A,**Forward Citations:** WO10078417, WO10078417, WO08046417, WO06094632, US2010200535, US2006186081, NL1036202, ES2320510, EP2444334,**Abstract:**

Source: US2005077263A Summarizing, we may say that this invention involves a stopper for bottles of beverages in general, particularly for wine, champagne, cider, sodas, and the like, which comprises: a metallic cap with internal plastic plastering (liner) so as to attain airtight closure and a "twist-off" system or the like with screwed threads that enables a quick opening of the bottle; a plastic cube of adequate hardness, with negative impressions or locks that hold and coincide with the external locks in the metallic cap, and the external diameter of which has a number of vertical grooves that allow for an anti-turn locking mechanism when it is placed inside an external aluminum cover; an external aluminum cover, the internal diameter of which locks with the outside of the referred plastic cube, in a cylinder-like and closed manner on one end on which are set the two parts mentioned above. It may have different width and length according to the purpose it is intended to serve, and it has circular threads or frangible bridges in order to guarantee the security of the content.

0) FR2862055A – CHAMPAGNE BOTTLE OPENING DEVICE, HAS FLEXIBLE R...

217) Family number: 31922936 (FR2862055A)

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Title: CHAMPAGNE BOTTLE OPENING DEVICE, HAS FLEXIBLE ROD POSITIONED BETWEEN CYLINDRICAL STOPPER AND INTERNAL WALL OF BOTTLE WHEN BOTTLE IS BLOCKED, WHERE ROD DEFORMS PORTION OF EXTERNAL WALL OF STOPPER UNTIL BASE OF STOPPER FORMS GROOVE

Priority: FR20030013217 20031112

Family:	Publication number	Publication date	Application number	Application date
	<u>FR2862055 A1</u>	20050513	FR20030013217	20031112

Probable Assignee: PITOUX JACQUES

Assignee(s):^(std) PITOUX JACQUES ; PITOUX MICHEL

Inventor(s):^(std) PITOUX JACQUES ; PITOUX MICHEL

International class
^{(IPC 8-9):} B65D39/00 B65D51/16 B67B7/06 ^{(Advanced/Invention):}
B65D39/00 B65D51/16 B67B7/00 ^(Core/Invention)

International class
^{(IPC 1-7):} B65D39/00 B65D45/00 B65D45/28 B65D51/16 B65D85/72 B67B7/08

CPC: B65D39/0011 B65D51/16 B67B7/066

European class: B65D39/00F1 B65D51/16 B67B7/06C

[Classification Explorer](#)

Abstract:

The device has a cylindrical stopper (1) that is provided with a base (6). The base constitutes a part for internal wall of a champagne bottle (2) and has a circumference pressing against the bottle neck. A flexible stainless rod (4) is positioned between the stopper and the internal wall of the bottle when the bottle is blocked. The rod deforms a portion of the external wall of the stopper until the base forms a groove.

0) US4712700A – TAMPER RESISTANT BOTTLE

218) Family number: 10078042 (US4712700A)

© PatBase

Title: TAMPER RESISTANT BOTTLE

Priority: US19860937078 19861202

Family:	Publication number	Publication date	Application number	Application date
	<u>US4712700 A</u>	19871215	US19860937078	19861202

Probable Assignee: FISCHMAN HARRY H

Assignee(s):^(std): FISCHMAN HARRY H

Inventor(s):^(std): FISCHMAN HARRY H

International class
(IPC 8-9): B65D55/02 (Advanced/Invention);
B65D55/02 (Core/Invention)

International class
(IPC 1-7): B65D53/04 B65D55/02

CPC: Y10S215/901 B65D55/02

European class: B65D55/02

US class: 215/19 215/1C 215/263 215/31 215/366 215/370 215/901

[Classification Explorer](#)

Cited documents: US931216 A, US870312 A, US809258 A, US579867 A, US4429803 A, US3080990 A, US2030618 A, US1070516 A, IT534594 A, GB2132978 A1, FR1322186 A, FR1192519 A,

Forward Citations: USD673415, US9016037, US5353968, US2014116009,

Abstract:

Source: US4712700A The present invention provides a tamper resistant bottle to prevent and deter persons from injecting contaminated substances into bottles containing liquids, from removing the solid contents of the bottle, changing their composition, replacing the contents back into the bottle and restoring the bottle to its original condition so as to appear untouched, for the purpose of doing harm to another person. The tamper resistant bottle whose aperture or mouth is generally narrower than its vertical sides, has a safety seal permanently attached within the bottle at some point below the mouth. The safety seal is so attached inside the bottle, that it is beyond the reach and manipulations of anyone; therefore, if broken, the safety seal cannot be replaced, repaired or repositioned in its original form and condition.

219) Family number: 15320409 (US2004043922A)

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Title: TREATMENT OF CASE-READY FOOD PRODUCTS WITH IMMOBILIZED LACTOFERRIN (IM-LF) AND THE PRODUCTS SO PRODUCED**Priority:** AU20000053035 20000526 US19990322700 19990528 WO2000US14818 20000526
US20000980062 20000526 US20030602118 20030623 US20020980062 20020510
WO2000US14820 20000526**Family:**

Publication number	Publication date	Application number	Application date
<u>AT505200 E</u>	20110415	AT20000937923T	20000526
<u>AU200053035 A1</u>	20001218	AU20000053035	20000526
<u>AU200053035 A5</u>	20001218	AU20000053035	20000526
<u>AU200054491 A1</u>	20001218	AU20000054491	20000526
<u>AU200054491 A5</u>	20001218	AU20000054491	20000526
<u>AU2003204900 AA</u>	20030724	AU20030204900	20030624
<u>AU776657 B2</u>	20040916	AU20000053035	20000526
<u>BRPI0011021 A</u>	20030429	BR2000PI11021	20000526
<u>BRPI0011558 A</u>	20020226	BR2000PI11558	20000526
<u>DE60045839 D1</u>	20110526	DE20006045839	20000526
<u>EP1181044 A2</u>	20020227	EP20000937923	20000526
<u>EP1181044 B1</u>	20110413	EP20000937923	20000526
<u>IN01249KO2001 A</u>	20050311	IN2001KO01249	20011126
<u>JP2003500425 T2</u>	20030107	JP20000620811T	20000526
<u>US2004043922 AA</u>	20040304	US20030602118	20030623
<u>US6172040 BA</u>	20010109	US19990322700	19990528
<u>US7074759 BB</u>	20060711	US20030602118	20030623
<u>US7375080 BA</u>	20080520	US20000980062	20000526
<u>WO0072690 A2</u>	20001207	WO2000US14818	20000526
<u>WO0072690 A3</u>	20010510	WO2000US14818	20000526
<u>WO0072874 A1</u>	20001207	WO2000US14820	20000526

Probable Assignee: ASATYANARAYAN NAIDU**Assignee(s):^(std):** NAIDU A SATYANARAYAN ; NAIDU SATYANARAYAN A ; SATYANARAYAN NAIDU A**Assignee(s):** A SATYANARAYAN NAIDU ; ASATYANARAYAN NAIDU ; NAIDU A**Inventor(s):^(std):** A SATYANARAYAN NAIDU ; NAIDU A SATYANARAYAN ; NAIDU SATYANARAYAN A ; SATYANARAYAN NAIDU A ; NAIDU STAYANARAYAN A**Inventor(s):** NAIDU A ; STAYANARAYAN A NAIDU**Agent(s):** PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SCHROEER GERNOT H; PAUL D; JEFFREY F; JACKSON DEMARCO TIDUS AND PECKENPAUGH; LEE HONG DEGERMAN KANG AND SCHMADEKA**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW**International class**
(IPC 8-9): A01N25/02 A01N25/04 A01N25/10 A01N25/12 A01N63/00 A23B4/00 A23B4/08 A23B4/20 A23B4/22 A23B7/153 A23L1/314 A23L13/40 A23L3/3463 A23L3/3499 A23L3/3526 A23L3/3571 A47J47/00 A61K38/02 A61K38/40 A61K47/48 A61L2/18 B65D81/28 C07K14/79 (Advanced/Invention);
A01N25/02 A01N25/04 A01N25/10 A01N25/12 A01N63/00 A47J47/00 B65D81/28 (Advanced/Non-invention);
A01N25/02 A01N25/04 A01N25/10 A01N25/12 A01N63/00 A23B4/06 A23B4/14 A23B7/14 A23L1/314 A23L3/3463 A47J47/00 A61K38/02 A61K38/40 A61K47/48 A61L2/18

B65D81/28 C07K14/435 (Core/Invention)

International class
(IPC 1-7):

A01N25/02 A01N25/04 A01N25/10 A01N25/12 A01N63/00 A23B4/00 A23B4/08 A23B4/20 A23B7/153 A23L3/34 A23L3/3463 A23L3/3499 A23L3/3526 A47J47/00 A61K38/40 A61L2/18 B65D81/28 C07K14/79

CPC:

A61K35/744 A61K35/745 A61K35/747 A61K38/00 A61K8/64 A61K38/40 A61K2800/57 A61Q5/02 A61Q11/00 A61Q17/005 A61Q19/00 C07K14/79 A23B4/22 A23L3/34635 A23L3/3571 A61K47/51

European class:

A23B4/22 A23L3/3463A A23L3/3571 A61K38/40 A61K47/48H A61K8/64 A61Q11/00 A61Q17/00F A61Q19/00 A61Q5/02 C07K14/79 K61K201/50 K61K800/57

US class:

422/28 422/32 426/310 426/321 426/321S 426/322 426/326 426/326P 426/332 426/335 426/532 514/17.2 514/2.5 514/2.6 514/2.7 514/2.8 514/21 514/3.4 514/3.7 514/4.4 514/6 514/8 514/9.3

[Classification Explorer](#)

Cited documents:

WO9113982 A1, WO0072874 A1, WO0072690 A2, WO0072690 A1, US6475511 BB, US6444823 BA, US6291003 BA, US6172040 BA, US6172040 B1, US6066469 A, US6066348 A, US5834424 A, US5780085 A, US5714188 A, US5656591 A, US5606086 A, US5597597 A, US5573801 A, US5543392 A, US5389611 A, US5296464 A, US5214028 A, US5206156 A, US5179197 A, US5156875 A, US5147853 A, US5106643 A, US5039539 A, US5015487 A, US4946944 A, US4791193 A, US4683139 A, US4667018 A, US4590079 A, US4545933 A, US3681095 A, US3552978 A, US2005025729 AA, US2003229011 AA, RU2099065 C1, RU2099065, JP7300425 A2, JP7300425, GB443911 A, EP0753309 A2, EP0753308 A2, EP0629347 A1, EP0568200 A2, EP0389795 A1,

Forward Citations:

WO14120026, WO12146890, WO11067762, WO10137015, WO09155689, WO08047391, WO06132665, WO06032781, WO06032781, WO05085287, WO05084703, WO05079582, WO05000030, WO03057712, WO03057712, WO0162956, US9560873, US9359426, US9283253, US9259440, US9181536, US9180148, US9149035, US8968726, US8940687, US8916510, US8858985, US8840883, US8828698, US8703134, US8476223, US8475789, US8445419, US8440183, US8394379, US8309080, US8263348, US8080502, US8021659, US8012001, US8003603, US7956031, US7915207, US7914365, US7901276, US7767240, US7666407, US7601689, US7566447, US7375080, US7368141, US7326775, US7182966, US7172782, US7125963, US7074759, US6986910, US6919364, US6908636, US2016193302, US2013183420, US2012237489, US2011200591, US2011172307, US2010297316, US2010203213, US2010183611, US2010021449, US2009327280, US2009178587, US2009155328, US2009148433, US2009098254, US2008274242, US2008274095, US2008269122, US2008267943, US2008255340, US2008254018, US2008118444, US2007253941, US2007237868, US2007141974, US2007141973, US2007020365, US2006269535, US2006233884, US2006147442, US2006093594, US2006073216, US2005271779, US2005266056, US2005220953, US2005197495, US2005182117, US2005100643, US2005061197, US2005014932, US2004265446, US2004265445, US2004043922, US2003229011, US2003211210, US2003113402, US2003040032, JP3806427, JP2013139477, JP2012161310, JP2009513572, JP2007523204, JP2003061688, FR2875501, EP2902409, EP2650302, EP2543385, EP2421894, EP2421894, EP2386311, EP2224240, EP1833495, EP1496742, EP1466621, CN103190470, AU2010239795,

Abstract:

Source: US2004043922A Disclosed is a method for reducing the microbial contamination in products, such as a case-ready meat products, including ready-to-eat meat products, subject to microbial contamination, including contamination by *E. coli* and *Listeria monocytogenes*. The food products are treated with a defined dispersion of lactoferrin immobilized on a naturally occurring substrate via the N-terminus region of the lactoferrin. Also disclosed are case-ready food products, including ready-to-eat food products, prepared in accordance with such a method.

220) Family number: 43761016 (BRMU8800298U)

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Title: disposicao construtiva introduzida em tampa Constructive disposition introduced in cover
(Machine translation)**Priority:** BR2008MU00298U 20080124

Publication number	Publication date	Application number	Application date
<u>BRMU8800298 U2</u>	20090908	BR2008MU00298U	20080124

Probable Assignee: GARBONI GIOVANNI**Assignee(s):^(std):** GARBONI GIOVANNI**Assignee(s):** GIOVANNI GARBONI**Inventor(s):^(std):** GARBONI GIOVANNI**Inventor(s):** GIOVANNI GARBONI**International class** B65D41/04 (Advanced/Invention);
(IPC 8-9): B65D41/04 (Core/Invention)[Classification Explorer](#)**Abstract:**

Source: BRMU8800298U 1 RESUMO M M \$ DISPOSICAO CONSTRUTIVA INTRODUZIDA EM TAMPA Cuja estanqueidade e obtida pela previsao de elementos de vedacao, que se acham dispostos internamente a 5 dita tampa, os quais estabelecem pontos de interferencia com o gargalo do frasco no qual e aplicada, gerando a perfeita acomodacao do dito gargalo em relacao aos ditos elementos de vedacao, os quais estabelecem o perfeito envolvimento da borda superior do gargalo, tanto interna quanto externamente, prevenindo 10 assim qualquer possibilidade de vazamento do conteudo. 1 SUMMARY MM \$ HAND CONSTRUCTIVE INTRODUCED IN TAMPA Whose tightness and obtained by the prediction of sealing elements, which are arranged inside the 5 said lid, which establish points of interference with the neck of the bottle in which and applied, creating the perfect accomodation said bottleneck in relation to the said sealing elements, which establish the perfect engagement of the upper edge of the neck, both internally and externally, preventing 10 so any possibility of leakage of contents.

221) Family number: 20322934 (GB809398A)

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Title: Tamper-proof caps for bottles and other receptacles**Priority:** 19560605

Family:	Publication number	Publication date	Application number	Application date
	<u>GB809398 A</u>	19590225	GB19570016928	19570528

Probable Assignee: FAPEX TRUST REG**Assignee(s):**^(std): FAPEX TRUST REG

International class B65D41/34 (Advanced/Invention);
^{(IPC 8-9):} B65D41/34 (Core/Invention)

International class B65D41/34 B65D55/06 B65D55/12
^{(IPC 1-7):}

CPC: B65D41/34 B65D41/3404 B65D41/3428 B65D41/3447**European class:** B65D41/34 B65D41/34A B65D41/34C1 B65D41/34D1[Classification Explorer](#)**Forward Citations:** WO0236451, US4909404, US4784281, US4753360, JP48056262, EP0941938, EP0240521, EP0240521, DE2638351, DE1154369,**Abstract:**

Source: GB809398A 809,398. Bottle c. closure caps. FAPEX TRUST REG. May 28, 1957 [June 5, 1956; Oct, 8, 1956], No. 16928/57. Class 125(3). A tamper-proof screw cap 1 for bottles, c. has a collar 2 provided with internal teeth 7 which cooperate with teeth 8 on the bottle neck, passing over teeth 8 in ratchet fashion when the cap is initially screwed on but attempts to unscrew the cap cause shearing along areas of weakness 11. A ply portion 5 enters the mouth of the bottle and the external surface of the cap has ribs 6. In a modification, Fig. 6 the collar 2 has teeth to mesh with fair teeth 8 on the bottle neck and is integral with the body at points 11 and by means of a short vertical rib 13 the collar itself tearing at 15 when the cap is unscrewed. In a further modification, Fig. 8, collar 2' is connected to the cap body by a fastening 16 and teeth 7 on the cap engage teeth 19 on the collar. In a still further modification, Fig. 10, the collar 2 is only fixed to the cap by the lower ends of ribs 6 and has internal ribs 23 which engage with ribs 24 on the bottle neck.

222) Family number: 24050878 (US3459315A)

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Title: CLOSURE SPOUT HAVING TEAR-OUT PORTION

Priority: FR19670095797 19670221 FR19680181841 19681230 US19680706296 19680219

Family:

Publication number	Publication date	Application number	Application date
BE710552 A	19680808		19680208
DE1657145 A1	19720323	DE19681657145	19680213
DK121898 B	19711213	DK19680000527	19680212
ES350480 A1	19690501	ES19680350480	19680214
FR1523236 A	19680503	FR19670095797	19670221
FR96383 E	19720616		00000000
GB1196053 A	19700624	GB19680006321	19680208
LU55433 A	19680416		19680208
NL6802329 A	19680822	NL19680002329	19680219
NO120255 B	19700921	NO19680000623	19680219
SE342200 B	19720131	SE19680001792	19680212
US3459315 A	19690805	US19680706296	19680219
USRE29850 E	19781128	US19770842697	19771017

Probable Assignee: GENERALE ALIMENTAIRE SA**Assignee(s):^(std):** GEN ALIMENTAIRE SA ; GENERALE ALIMENTAIRE SA**Assignee(s):** GENERAL ALIMENTAIRE SOCIETE ANONYME ; GENERALE ALIMENTAIRE S A**Inventor(s):^(std):** LABARRE MAURICE ; LABARRE M**Inventor(s):** MAURICE LABARRE INGENIOER ; MAURICE LABARRE

International class
(IPC 8-9): [B65D47/10](#) [B65D47/12](#) [B65D47/36](#) (Advanced/Invention) ;
[B65D47/00](#) [B65D47/06](#) [B65D47/12](#) (Core/Invention)

International class
(IPC 1-7): [B65D35/44](#) [B65D41/20](#) [B65D41/32](#) [B65D47/00](#) [B65D47/10](#) [B65D47/36](#) [B67B](#)

CPC: [B65D47/103](#) [B65D47/127](#) [B65D47/36](#)**European class:** [B65D47/10A](#) [B65D47/12D](#) [B65D47/36](#)**US class:** [215/253](#) [215/295](#) [215/307](#) [215/42](#) [222/541.9](#) [222/562](#)[Classification Explorer](#)**Cited documents:** US3269617 A, US3135441 A, US3099361 A, US2895654 A,

Forward Citations: WO0125106, USD530603, US8348075, US7832579, US7472753, US7413097, US7137524, US6883689, US6779675, US6578744, US6568563, US6464096, US6056142, US6045004, US6003728, US5992668, US5927549, US5853109, US5839627, US5810184, US5785209, US5769277, US5755360, US5271892, US5069372, US5027979, US4984716, US4982876, US4948015, US4817807, US4807769, US4760931, US4727999, US4697722, US4682702, US4531657, US4356939, US4294382, US4056129, US3892327, US3873008, US3866784, US3750820, US3688934, US2012241480, US2008179276, US2008011711, US2006237186, US2005017005, US2004217083, US2004065665, US2003183634, US2003010781, JP6194573, JP54052447, JP50036019, JP50028988, JP49090554, JP49079556, JP49078344, JP49010957, JP48086049, JP48020275, JP2014084141, GB2452264, FR2643875, FR2524427, FR2500411, FR2335422, EP1088770,

Abstract:

Source: US3459315A ABSTRACT OF THE DISCLOSURE A closure of injection-moulded synthetic plastic material for a bottle or other receptacle, such closure comprising a tubular body having a throat insertable into the neck of the bottle and an integral fluid-tight diaphragm across the throat with an external gripping device by which the diaphragm can be torn off, wherein the gripping device is a ring separate from the watertight diaphragm but joined to the rim of the latter by means of a base connection which is also integrally moulded.

The closure has an integrally molded pouring spout, and a replaceable cap protecting the spout.

223) Family number: 14923533 (US5934510A)

© PatBase

Title: Fluid dispenser apparatus**Priority:** US19960019249P 19960607 US19970870918 19970606 WO1997US09951 19970606
WO2000US12119 20000503 US19990304297 19990503 US19990430711 19991029**Family:**

Publication number	Publication date	Application number	Application date
AU199733828 A1	19980105	AU19970033828	19970606
AU200046977 A1	20001117	AU20000046977	20000503
AU200046977 A5	20001117	AU20000046977	20000503
AU723196 B2	20000817	AU19970033828	19970606
DE60043344 D1	20091231	DE20006043344	20000503
DE69739667 D1	20091231	DE19976039667	19970606
DK1015382 T3	20100308	DK19970929868T	19970606
EP1015382 A1	20000705	EP19970929868	19970606
EP1015382 A4	20060517	EP19970929868	19970606
EP1015382 B1	20091118	EP19970929868	19970606
EP1196744 A1	20020417	EP20000928797	20000503
EP1196744 A4	20070228	EP20000928797	20000503
EP1196744 B1	20091118	EP20000928797	20000503
US5934510 A	19990810	US19970870918	19970606
US6253961 BA	20010703	US19990304297	19990503
US6364170 BA	20020402	US19990430711	19991029
WO0066981 A1	20001109	WO2000US12119	20000503
WO9746479 A1	19971211	WO1997US09951	19970606

Probable Assignee: ANDERSON MARK L**Assignee(s):^(std):** ANDERSON MARK L ; MARK L ANDERSON**Assignee(s):** ANDERSON MARK L PO BOX**Inventor(s):^(std):** ANDERSON MARK L ; DENT HUGH ; DENT HUGH R ; HARMON JOHN C ; WAIT JAMES E ; WELLSTEIN WAYNE**Inventor(s):** WAYNE WELLSTEIN ; HUGH DENT ; JAMES E WAIT ; JOHN C HARMON ; MARK L ANDERSON**Agent(s):** HODGKINSON MCINNES PATENTS; BAILEY RICHARD ALAN**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN ZA ZW**International class** [B05B11/00 B67B7/86 B67D99/00 G01F11/02 G01F11/10](#) (Advanced/Invention)
(IPC 8-9):**International class** [B05B11/00 B65D88/54 B67B7/24 B67D5/00 G01F11/10](#)
(IPC 1-7):**CPC:** [B05B11/0016 B05B11/0018 B05B11/0037 B05B11/0048 B05B11/0054 B05B11/0097 B05B11/3002 B05B11/3007 B05B11/3008 B05B11/3045 B67B7/28 G01F11/027](#)**European class:** [B05B11/00B17 B05B11/00B2 B05B11/00B2B B05B11/00B5 B05B11/00B5A4 B05B11/30C1 B05B11/30C3B B05B11/30C3D B05B11/30H1B B67B7/28 G01F11/02B8C L05B11/00B17 L05B11/00B5E](#)**US class:** [222/131 222/183 222/192 222/309 222/321.7 222/324 222/383.1 222/383.3 222/43 222/83 604/183 604/218 604/237](#)[Classification Explorer](#)

Cited documents: WO9746479 A1, WO9525600 A1, USD287211 S1, USB24981472, USB24981472, USB14981472, USB14981472, US6138848 A, US5988452 A, US5934510 A, US5931347 A, US5887764 A, US5816453 A, US5695090 A, US5600958 A, US5553750 A, US5482095 A, US5435462 A, US5413255 A, US5344409 A, US5217442 A, US5190191 A, US5188610 A, US5176645 A, US4995867 A, US4981472 A, US4923448 A, US4923096 A, US4902281 A, US4871092 A, US4852772 A, US4826050 A, US4678107 A, US4564360 A, US4185755 A, US4081111 A, US3952919 A, US3952918 A, US3831602 A, US3827601 A, US3604592 A, US3526225 A, US3228564 A, US3215171 A, US3209951 A, US3016897 A, US2825334 A, US2753079 A, US2736315 A, US2605763 A, US24981472, US2172521 A, US2086467 A, US14981472, US1496126 A, GB413145 A, GB2196534 A1, GB2111132 A1, GB1412312 A,

Forward Citations: WO16115505, WO15011427, WO11091057, WO11060801, WO10126622, WO07068032, WO07058945, WO05004583, WO0110563, USD637713, US9637369, US9309020, US9168203, US9120663, US8926583, US8807133, US8790330, US8777615, US8770441, US8657803, US8622985, US8562583, US8545475, US8523838, US8480646, US8381776, US8353859, US8336587, US8328772, US8287513, US8225826, US8167864, US8162013, US8075550, US8029747, US7980243, US7975733, US7942860, US7867215, US7805884, US7793655, US7762427, US7555864, US7360501, US7278554, US7213593, US7165357, US7114289, US6626171, US6368314, US6253961, US6223746, US6158431, US2015251842, US2014263435, US2013312793, US2011174309, US2010274179, US2009212072, US2009081610, US2009005753, US2007180765, US2007102458, US2007033870, US2006278662, US2006180611, US2005247737, US2005224004, US2005223637, US2004255512, GB2358181, FR3008901, EP2525738, EP1384519, EP1384519, EP1196744, EP1074305, AU2011207555,

Abstract:

Source: US5934510A A fluid dispenser used to administer fixed or adjustable doses of fluids in oral, intranasal, or injectable applications. The dispenser may be used to draw off fluid from a flexible or rigid bulk container or to draw fluid from a mounted flexible or rigid container such as a sealed-end bag or bottle, or a threaded bag or bottle. The dispenser may include an automatic venting feature to assist with the smooth, easy flow of fluid during an application and to prevent contaminants from being suctioned back into the container. The fluid dispenser generally comprises: a connection member communicatively connected to a fluid source container; a body member having a dose cylinder communicatively connected to the connection member; a piston member operationally related to the dose cylinder and spring biased in an extended position; and a trigger member attached to the piston member and communicatively connected to the dose cylinder through the piston member. Squeezing the trigger member of a primed dispenser will expel a predetermined dose of fluid from the dose cylinder out through the trigger member. Releasing the trigger member will draw the predetermined dose of fluid from the container into the dose cylinder.

224) Family number: 34662394 (ES1045094Y)

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Title: SISTEMA DE TAPON-CIERRE PARA BOTELLAS DE DISPENSADORES DE AGUA.**Priority:** ES20000000098U 20000118

Family:	Publication number	Publication date	Application number	Application date
	ES1045094 UA	20000701	ES20000000098U	20000118
	ES1045094 Y1	20001216	ES20000000098U	20000118
	ES1045094 YA	20001216	ES20000000098U	20000118

Probable Assignee: ECOPACK S L PROD**Assignee(s):**^(std): ECOPACK S L PROD ; PRODUCTOS ECOPACK S L**Assignee(s):** ECOPACK SL PROD**Inventor(s):**^(std): GRACIA BENAIGES JUAN JOSE

International class [B65D47/06](#) (Advanced/Invention);
^{(IPC 8-9):} [B65D47/06](#) (Core/Invention)

International class [B65D47/06](#)
^{(IPC 1-7):}

[Classification Explorer](#)**Abstract:**

Source: ES1045094U 1. Sistema de tapon-cierre para botellas de dispensadores de agua, del tipo que comprende un tapon de cierre de la botella situada superiormente en posicion invertida que incorpora en su interior un pequeno tapon, el cual se acopla al dispensador de agua situado interiormente durante el suministro, y que se incorpora al tapon de cierre al separar la botella respecto del dispensador manteniendo la botella cerrada, caracterizado porque comprende dos piezas ligeramente elasticas independientes que se acoplan entre si formando un conjunto unico, una pieza principal que se fija al cuello de labotella y una pieza secundaria alojada en forma permanente y giratoriamente en la pieza principal que se fija al embolo del dispensador de agua, cuya pieza principal comprende un cuerpo tubular cerrado por una base y provisto interiormente de medios de encaje que se acopla exteriormente al cuello de la botella de suministro y una cavidad cilindrica central y concentrica al cuerpo tubular que esta cerrada por la base interior y esta abierta por la base exterior en correspondencia con una abertura circular central prevista en la base, y cuya pieza secundaria consiste en un cuerpo ligeramente conico que esta abierto por ambas bases que encaja elasticamente en forma giratoria en la cavidad cilindrica central de la pieza principal y queda retenida en forma permanente por el borde de la abertura circular central de la base, y estando provistas ambas piezas principal y secundaria de respectivos orificios de suministro identicos y de medios limitadores de giro mutuo que permiten que dichas piezas principal y secundaria adopten dos posiciones principales, una posicion de coincidencia de los respectivos orificios para el suministro del liquido de la botella al dispensador y otra posicion de desfase que cierra la botella y permite la retirada de la misma y con ello el corte de suministro al dispensador. 1. Plug-closure for bottles of water dispensers, of the type comprising a closure cap of the bottle located superiorly in an inverted position that incorporates in its inside a small plug, which is coupled to the dispenser of water located internally during delivery, and which is incorporated to the closure cap by separating the bottle with respect to the dispenser while maintaining the closed bottle, characterized in that it comprises two independent slightly elastic pieces that are coupled together forming a single assembly, which is fixed to the neck of a main part and a secondary part housed in y giratoriamente labotella permanently in the main piece that is fixed to the plunger of the water dispenser, whose main part comprises a body Interiormente de tubo tubular closed by a base and provided with engagement means that is externally coupled to the neck of the bottle and a central cylindrical cavity and concentric to the tubular body that is closed por la inner base and is open at the outer base in correspondencia with a central circular opening provided in the base, and whose secondary part consists of a slightly conical body which is open at both bases which snaps into the central cylindrical cavity of the main part and is retained by the edge of the central circular opening of the base, and respective holes being provided both primary and secondary parts of identical and media supply Turn limiters which permit that these parts adopt two main positions, a posicion de y secundaria main coincidence of the respective holes for the supply of liquid from the bottle to the dispenser and another offset position that closes the bottle and allows the removal of the same and thus cutting supply to the dispenser.

225) Family number: 555586 (GB1325949A)

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Title: SYNTHETIC PLASTICS SCREW CLOSURE WITH ATTACHED SAFETY RING AND A METHOD OF PRODUCING THE SAME**Priority:** DE19702024990 19700522 DE19712113047 19710318

Family:	Publication number	Publication date	Application number	Application date
	AT307905 B	19730612	AT19710002412	19710319
	BE767182 A	19711001	BE19710767182	19710514
	BE767182 A1	19711001	BE19710767182	19710514
	CH530316 A	19721115	CH19710004411	19710325
	DE2024990 A1	19711202	DE19702024990	19700522
	DE2113047 A1	19720921	DE19712113047	19710318
	FR2090209 A1	19720114	FR19710018109	19710519
	FR2090209 B1	19750926	FR19710018109	19710519
	GB1325949 A	19730808	GB19710016406	19710521
	HU168553 P	19760528	HU1971SE01560	19710423
	NL7106561 A	19711124	NL19710006561	19710513
	SU448632 D	19741030	SU19711663252	19710519

Probable Assignee: DEUSSEN STELLA KG**Assignee(s):**^(std) STELLA KB WERNER DEUSSEN ; DEUSSEN STELLA KG ; STALLA KG WERNER DEUSSEN**Assignee(s):** STALLA WERNER DEUSSEN KG ; STELLA KB WERNER DEUSSEN TAUNUSSTRASSE ; STELLA KG WERNER DEUSSEN ; STELLA KG WERNER DEUSSEN DT ; STELLA KB WERNER DEUSSEN TAUNUSSTRASSE 3 7 6229 NIEDERWALLUF RHEIN ALLEMAGNE ; STELLA WERNER DEUSSEN KG**Inventor(s):**^(std) DEUSSEN WERNER ; WERNER DEUSSEN**International class**
^(IPC 8-9) [B65D41/34](#) (Advanced/Invention) ;
[B65D41/34](#) (Core/Invention)**International class**
^(IPC 1-7) [B65D41/00](#) [B65D41/34](#) [B65D41/38](#) [B65D55/02](#)**CPC:** [B65D41/3466](#) [B65D41/348](#)**European class:** [B65D41/34E1](#) [B65D41/34F](#)[Classification Explorer](#)**Cited documents:** GB947043 A, FR1394105 A,**Forward Citations:** US4469234, FR2395900, FR2206253, EP1886931, EP0049876, DE2425788,**Abstract:**

Source: GB1325949A 1325949 Tamperproof closures STELLAKG WERNER DEUSSEN 21 May 1971 [22 May 1970] 16406/71 Heading B8T [Also in Division B5] A plastics tamperproof closure comprises a screw cap 4 which engages with threads 2 on the neck of a bottle, the cap 4 being provided with a safety ring 6 fitting over a flange 3 on the neck and separated from the cap 4 by webs 7. When the cap has been screwed on to the neck, the safety ring 6 is heated and lapped under the flange 3, so that to remove the cap it has to be broken away from the ring 6.

0) ES1025020Y – TAPON CON PRECINTO PARA BOTELLAS Y SIMILARES.

226) Family number: 16432535 (ES1025020Y)

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Title: TAPON CON PRECINTO PARA BOTELLAS Y SIMILARES.

Priority: ES19930001647U 19930614

Family:

Publication number	Publication date	Application number	Application date
ES1025020 UA	19931101	ES19930001647U	19930614
ES1025020 Y1	19940701	ES19930001647U	19930614
ES1025020 YA	19940701	ES19930001647U	19930614

Probable Assignee: INPLAST MANUFACTURAS

Assignee(s):^(std): INPLAST MANUFACTURAS

Assignee(s): MANUFACTURAS INPLAST S A ; MANUFACTURAS INPLAST SA

Inventor(s):^(std): GARCIA ALBEROLA JOSE MARIA

International class [B65D39/04](#) (Advanced/Invention);
(IPC 8-9): [B65D39/00](#) (Core/Invention)

International class [B65D39/04](#)
(IPC 1-7):

[Classification Explorer](#)

Abstract:

Source: ES1025020U TAPON CON PRECINTO PARA BOTELLAS Y SIMILARES, QUE ESTANDO CONSTITUIDO POR UN CUERPO CILINDRICO CONSTITUTIVO DEL TAPON PROPIAMENTE DICHO, CON SU FILETE DE ROSCA INTERNA PARA ACOPLAMIENTO A LA CORRESPONDIENTE BOTELLA, Y A CUYO TAPON VA VINCULADO, EN CORRESPONDENCIA CON SU EMBOCADURA, UN ANILLO DETERMINANTE DEL PRECINTO PROPIAMENTE DICHO, CONTANTO ESTE CON RESALTES INTERNOS SEGUN UNA DISPOSICION EN DIENTE DE SIERRA QUE SON COMPLEMENTARIOS DE OTROS ANTAGONICOS PREVISTOS AL EFECTO EN LA SUPERFICIE DEL GOLLETE DE LA BOTELLA, Y ESTANDOS AMBOS ELEMENTOS, CUERPO DEL TAPON Y ANILLO DE PRECINTO, UNOS ENTRE SI MEDIANTE ELEMENTOS FRANGIBLES, ESENCIALMENTE SE CARACTERIZA PORQUE LOS CITADOS MEDIOS DE UNION FRANGIBLES ENTRE EL ANILLO DE PRECINTO Y EL RESPECTIVO TAPON ESTAN MATERIALIZADOS POR NERVIOS RADIALES DE PERFIL ARQUEADO, PROPORCIONANDO UNA ELEVADA FLEXIBILIDAD QUE FAVORECERA EL ACOPLAMIENTO DEL TAPON SOBRE LA CORRESPONDIENTE BOTELLA SIN QUE SE ROMPAN LOS PROPIOS NEXOS FRANGIBLES DE UNION, Y POSIBILITARA UN MEJOR ENCLAVAMIENTO ENTRE LOS RESALTES INTERNOS DEL PROPIO ANILLO DE PRECINTO Y LOS PREVISTOS EN LA SUPERFICIE LATERAL DEL CUELLO O GOLLETE DE LA BOTELLA. Cap WITH SEAL FOR BOTTLES AND THE LIKE, WHICH being constituted by a cylindrical body CONSTITUTING THE PLUG ITSELF, with its corresponding fillet internal thread for coupling to the bottle, and whose cap is linked, in correspondence with its mouth, a ring DETERMINING THE SEAL ITSELF, CONTANTO THIS WITH INTERNAL PROJECTIONS ACCORDING TO A saw tooth arrangement THAT ARE COMPLEMENTARY TO OTHER ANTAGONISTIC PROVIDED FOR THIS PURPOSE ON THE SURFACE OF THE NECK OF THE BOTTLE, AND ESTANDOS both elements, THE PLUG BODY AND SEAL RING, TOGETHER BY FRANGIBLE ELEMENTS, essentially characterized in that said FRANGIBLE CONNECTION MEANS BETWEEN THE SEAL RING AND THE RESPECTIVE CAP are embodied by radial ribs of Arcuate profile, PROVIDING A HIGH FLEXIBILITY THAT WILL FAVOR THE COUPLING OF THE CAP ON THE CORRESPONDING bottle without breaking the frangible links, and ENABLE A BETTER INTERLOCKING BETWEEN THE INTERNAL PROJECTIONS OF THE OWN SEAL RING AND THOSE PROVIDED FOR IN THE SIDE SURFACE OF THE NECK OR NECK OF THE BOTTLE.

0) GB299656A – SPRINKLING STOPPER FOR BOTTLES AND THE LIKE

227) Family number: 18574782 (GB299656A)

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Title: Sprinkling stopper for bottles and the like

Priority: GB19280004664 19280214

Family:	Publication number	Publication date	Application number	Application date
	GB299656 A	19281101	GB19280004664	19280214

Probable Assignee: THEODOR LEGRADI

Assignee(s):^(std): THEODOR LEGRADI

International class [B65D47/26](#) (Advanced/Invention);
(IPC 8-9); [B65D47/04](#) (Core/Invention)

CPC: [B65D47/265](#)

European class: [B65D47/26D4](#)

[Classification Explorer](#)

Forward Citations: US3214068,

Abstract:

Source: GB299656A Stoppers with valves.—A sprinkling closure for bottles and c., composed of cork, glass, porcelain, or other non-metallic material through which the liquid to be sprayed is exclusively conducted, comprises a stopper b adapted to be placed on the normally unrestricted neck f of the bottle and c. and formed with a central spraying aperture a from which proceeds an obliquely disposed channel d which coacts with an obliquely disposed groove g in the neck portion, the stopper being rotatably connected to the neck by an encircling ring c. A projection on the ring engages in a groove l in the neck to limit the rotation of the stopper. The closure may be detachable from the bottle, the ring c, Fig. 5, taking the form of a metal cap formed with a flange which is made resilient by vertical slits i extending across an annular indentation h adapted to engage in a groove k in or beneath the lip of the bottle neck.

0) FR1388710A – FERMETURE POUR BOUTEILLE CLOSURE FOR BOTTLE ...

228) Family number: 21118784 (FR1388710A)

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Title: FERMETURE POUR BOUTEILLE CLOSURE FOR BOTTLE (Machine translation)

Priority: FR19630949014 19630928

Family:	Publication number	Publication date	Application number	Application date
	<u>FR1388710 A</u>	19650212	FR19630949014	19630928

Probable Assignee: PASINVEST ETS

Assignee(s):^(std): PASINVEST ETS

Assignee(s): ETABLISSEMENT PASINVEST

Inventor(s):^(std): SALMINEN PAAVO VIKTOR LUDVIG

International class
(IPC 8-9): B65D39/00 B65D55/06 (Advanced/Invention);
B65D39/00 B65D55/02 (Core/Invention)

International class
(IPC 1-7): B65D39/00

CPC: B65D55/063 B65D39/00 B65D39/0064

European class: B65D39/00 B65D39/00G2 B65D55/06B

[Classification Explorer](#)

Forward Citations: WO06051240, WO06021640, US4057160, FR2877644, FR2620007, EP1824752, EP1771350,

Abstract:

Source: FR1388710A (Claim 1) former un cone dont le sommet est en bas.

Machine translation: (Claim 1) form a cone whose vertex is at the bottom.

0) FR2259761A – TWO-PART PLASTIC BOTTLE CLOSURE – HAS STOPPER S...

229) Family number: 3289635 (FR2259761A)

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Title: TWO-PART PLASTIC BOTTLE CLOSURE – HAS STOPPER SEAT COMPENSATING FOR VARIATIONS IN BOTTLE NECK DIMENSIONS

Priority: FR19740003661 19740204

Family:	Publication number	Publication date	Application number	Application date
	FR2259761 A1	19750829	FR19740003661	19740204
	FR2259761 B3	19761126	FR19740003661	19740204

Probable Assignee: ARTS AND TECH NOUV

Assignee(s):^(std): ARTS AND TECH NOUV

Assignee(s): ARTS ET TECHNIQUES NOUVELLES ; ARTS ET TECHNIQUES NOUVELLES FR

International class
(IPC 8-9): [B65D39/00](#) (Advanced/Invention);
[B65D39/00](#) (Core/Invention)

International class
(IPC 1-7): [B65D41/58](#)

CPC: [B65D39/00](#) [B65D39/0076](#)

European class: [B65D39/00](#) [B65D39/00G4](#)

[Classification Explorer](#)

Forward Citations: WO15031640, WO04035408, US7125187, US7125187, US4512487, FR2845665, FR2516055, EP0079275,

Abstract:

Source: FR2259761A (Claim 1) 1. Dispositif de bouchage d'un flacon dont le goulot comporte un bourrelet sur sa partie superieure, ce dispositif en deux elements, un surbouchage et un bouchon proprement dit etant caracterise en ce que le surbouchage, dont une jupe exterieure adhere etroitement sur la face exterieure du goulot, comporte un manchon conique qui se place a l'interieur du goulot sans toucher la face interieure de ce dernier, le deuxieme element etant un bouchon conique qui s'introduit dans le manchon du premier element. A stopper seat (1) fits over the neck of the bottle (2) which has a ring (3) round its top edge. A skirt (4) surrounds the neck of the bottle and the sat is held in place by a ledge (5) under a corresponding part of the bottle. The conical part (6) which fits inside the neck does not touch it, so compensating for variations in bottle neck dimensions. The stopper (8) comprises a flat base (10) and a conical piece (9) which fits inside the seat. The stopper seat is force fitted and its upper surface (7) allows the stopper to be easily centred.

230) Family number: 22214334 (US3089603A)

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Title: VACUUM FLASKS**Priority:** US19590854408 19591120

Family:	Publication number	Publication date	Application number	Application date
	<u>US3089603 A</u>	19630514	US19590854408	19591120

Probable Assignee: LAURANCE LESLIE SMITH**Assignee(s):^(std):** LAURANCE LESLIE SMITH**Inventor(s):^(std):** LAURANCE LESLIE SMITH**Inventor(s):** LESLIE SMITH LAURANCE

International class A47J41/02 (Advanced/Invention);
^{(IPC 8-9):} A47J41/00 (Core/Invention)

International class B65D39/08 B65D41/04
^{(IPC 1-7):}

CPC: A47J41/02**European class:** A47J41/02**US class:** 215/12.1 215/329 215/354 215/356[Classification Explorer](#)**Cited documents:** US2969887 A, US2944690 A, US2024065 A, BE563778 A, AU212274,

Forward Citations: WO9831959, WO9417709, USD799908, USD799907, USD799906, USD795020, USD795019, USD794397, USD790285, USD788544, USD787894, USD787893, USD784775, USD783368, USD783367, USD782881, USD781662, USD775903, USD774840, USD774837, USD774363, US7980403, US6223946, US6216897, US6142186, US6062263, US6032829, US5947310, US5775526, US4103797, US3707241, US3197055, US3173569, US2016318693, US2013075356, US2009250426, EP0951626,

Abstract:

Source: US3089603A (Claim 1) A vacuum flask assembly comprising a vacuum 25 bottle, a casing housing the said bottle, a pouring lip member surrounding the mouth of the bottle and locating the bottle in the casing, an upstanding cylindrical portion on said pouring lip member extending upwardly from the mouth of the bottle, a screw thread on said 30 cylindrical portion, a pouring lip defined by the open upper end of said cylindrical portion, a stopper, a depending bung portion on said stopper for sealingly engaging in the mouth of the bottle, a screw thread on said stopper engageable with the screw thread on the cylin- 35 drical portion of the pouring lip member for releasably securing the stopper with its bung portion engaged in the mouth of the bottle, and means separate from said screw threads providing a secondary seal for the contents of the bottle, the said secondary sealing means comprising 40 a pair of inclined surfaces, each of substantial length on the cylindrical portion of the pouring lip member and inclined surfaces on the stopper which match the respective inclined surfaces on the cylindrical portion of the pouring lip member over substantially the full length 45 thereof, and which wedgingly engage the respective inclined surfaces on said cylindrical portion when the stopper is screwed on to the pouring lip member to cause the secondary seal to have substantial width.

0) EP0252532A1 – SCREWCAP FOR A CONTAINER HAVING A NECK PROVIDED...

231) Family number: 2292270 (EP0252532A1)

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Title: SCREWCAP FOR A CONTAINER HAVING A NECK PROVIDED WITH A RUPTURABLE MEMBRANE.

Priority: BE19860216911 19860711 BE19860905095 19860711 CA19870534615 19870414
EP19870200542 19870325

Family:	Publication number	Publication date	Application number	Application date
	AT53809 E	19900615	AT19870200542T	19870325
	BE905095 A	19861103	BE19860216911	19860711
	BE905095 A1	19861103	BE19860216911	19860711
	CA1334659 A1	19950307	CA19870534615	19870414
	DE3762505 D1	19900607	DE19873762505	19870325
	EP0252532 A1	19880113	EP19870200542	19870325
	EP0252532 B1	19900502	EP19870200542	19870325
	ES2014463 B3	19900716	ES19870200542T	19870325
	GR3000556 T3	19910731	GR19900400374T	19900613

Probable Assignee: L AND M SERVICES BV

Assignee(s):^(std): CALWAG SA ; LYNES HOLDING SA

Assignee(s): CALWAG S A ; LYNES HOLDING S A ; LYNES HOLDING S A LUXEMBURG LUXEMBOURG LU ; L AND M SERVICES BV ; DEBETENCOURT JEAN

Inventor(s):^(std): DEBETENCOURT JEAN

Inventor(s): DEBETENCOURT JEAN B 7535 MAULDE BE

Agent(s): MACRAE AND CO

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

International class [B65D51/22](#) (Advanced/Invention);
(IPC 8-9): [B65D51/18](#) (Core/Invention)

International class [B65D51/22](#)
(IPC 1-7):

CPC: [B65D51/225](#) [B65D2251/0015](#) [B65D2251/0093](#)

European class: [B65D51/22](#) [B65D51/22A1F](#) [B65D51/22E1](#) [B65D51/22E1F](#) [L65D251/00Y2D](#)
[L65D251/00Y6M](#)

[Classification Explorer](#)

Cited documents: GB621940 A, FR2234206 A1, FR2049485 A5, DE2153446 A1,

Forward Citations: US5255813, US5248054, FR2673601, EP0530677, CN102874470,

Abstract:

1. A screw-type sealing cap (1), for a container (5) whose neck (4) is provided with a tear-off cover (6), comprising internally a spiral blade (12) which, when the cap is screwed on the neck (4) of the container, penetrates into the aforementioned cover (6) and cuts away a portion thereof, characterised in that the blade (12) has a so-called "trailing" end (12'), with respect to the direction of rotation of the blade (12), which is bent towards the inside of the spiral blade so as to raise the cover (6).

232) Family number: 42894963 (DE202008014400U1)

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Title: Abdeckvorrichtung fuer Flaschen Taking off device for bottles (Machine translation)**Priority:** DE200820014400U 20081029

Family:	Publication number	Publication date	Application number	Application date
	<u>DE202008014400 U1</u>	20090115	DE200820014400U	20081029

Probable Assignee: STEIN ACHIM**Assignee(s):^(std):** STEIN ACHIM

International class B65D51/04 (Advanced/Invention);
 (IPC 8-9) B65D51/00 (Core/Invention)

CPC: B65D51/04**European class:** B65D51/04[Classification Explorer](#)**Cited documents:** DE202006001920 U1**Abstract:**

Source: DE202008014400U1 (Claim 1) 1. Vorrichtung zum Abdecken der oeffnung im Endbereich eines Halses einer Getraenkeflasche, bestehend aus einer ueber eine Halterung mit Gelenk am Hals der Getraenkeflasche befestigten und eine Kappe tragenden Kruecke, ueber die die Kappe auf die kronenkorkenfreie oeffnung schwenkbar ist, dadurch gekennzeichnet, dass die Halterung (4) aus einem sich ueber einen Winkel von nur geringfuegig kleiner als 180 Degrees erstreckenden und mit dem Gelenk (7) verbundenen Ringteil (4b) gebildet und dass das Ringteil (4b) ueber mindestens ein elastisches Verbindungsglied (12) an dem Hals (2) der Getraenkeflasche (3) angeschlossen ist.

Machine translation: (Claim 1) 1. Device for taking the opening off in the final range of a neck of a beverage bottle, consisting of over a mounting plate a sprag basic with joint at the neck of the beverage bottle fastened and a cap, over which the cap is tiltable on the crown-cork-free opening, by the fact characterized that the mounting plate (4) from over an angle of only slightly smaller than 180 Degrees extending and with the joint (7) connected struggle-hurry (4b) in an educated manner and that struggle-hurry (4b) over at least a flexible connecting link (12) at the neck (2) the beverage bottle (3) is attached.

233) Family number: 19009024 (GB364528A)

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Title: Improvements in plugs or stoppers for bottles and other vessels**Priority:** GB19300019167 19300624

Family:	Publication number	Publication date	Application number	Application date
	<u>GB364528 A</u>	19311224	GB19300019167	19300624

Probable Assignee: HENRY EWART WADSWORTH**Assignee(s):^(std):** HENRY EWART WADSWORTH

International class B65D41/28 G01F19/00 (Advanced/Invention) ;
^{(IPC 8-9):} B65D41/02 G01F19/00 (Core/Invention)

International class B65D39/00
^{(IPC 1-7):}

CPC: B65D41/28 G01F19/00**European class:** B65D41/28 G01F19/00[Classification Explorer](#)**Forward Citations:** WO9730330, WO9101710, WO05009853, USD546685, US4693410, US4566508, US4416381, GB2345905, GB2310658, GB2230505, EP0122964,**Abstract:**

Source: GB364528A 19167. [Classes 125 (i) and 125 (iii).] A plug stopper for a bottle and c., of the kind comprising a plug part a furnished with a flange b capable of use as a drinking vessel and c., is characterized in that the plug part is of indiarubber and has formed integrally with it a handle part c, for convenient manipulation, the flange part, formed integrally with or separately from the plug part, being situated at one side of a plane transverse to the centre line of the stopper, and the handle part being situated wholly at the other side of such plane. The flange may be graduated by marks or flutes f, or by being formed as successive conical frustra of the same or progressively greater conicity, and the extreme portion of the flange h may be made flexible in order to lie against the sides of the bottle and c., to exclude dust, the whole flange being preferably sufficiently flexible to enable it to be turned inside-out for cleansing purposes. The plug portion is preferably contained within the volume of the flange portion representing the minimum quantity to be measured. The handle portion may be provided with flutes, Fig. 4, so that on placing it within the neck of the bottle and c. it may be used as a sprinkling device. The flange may, alternatively, be made of stiff material, e.g. glass or Bakelite, applied separately by friction and c. to the indiarubber plug, and may be shaped to represent an eye-bath and c.

234) Family number: 23095780 (FR1247499A)

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Title: DISPOSITIF D'OBTURATION DE BOUTEILLES SHUTTER DEVICE BOTTLE (Machine translation)

Priority: FR19590809926 19591112

Publication number	Publication date	Application number	Application date
FR1247499 A	19601202	FR19590809926	19591112

Inventor(s):^(std) OSTHEIM FRITZ

International class B65D49/04 (Advanced/Invention);
(IPC 8-9): B65D49/00 (Core/Invention)

International class B65D49/02
(IPC 1-7):

CPC: B65D49/04

European class: B65D49/04

[Classification Explorer](#)

Abstract:

Source: FR1247499A (Claim 1) 1. Ce bouchon peut etre place sur le goulot de la bouteille a l'etat chaud, c'est-a-dire plastique, par exemple, et assujetti par pression pendant son refroidissement. aussitot apres.

Machine translation: (Claim 1) 1. This cap can be placed on the neck of the bottle has the hot state, that is to say, plastic, for example, and secured by pressure during cooling. as soon after.

0) IN00679KO2006A – BOTTLE STOPPER, PARTICULARLY FOR GLASS BOTTLES,...

235) Family number: 41858695 (IN00679KO2006A)

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Title: BOTTLE STOPPER, PARTICULARLY FOR GLASS BOTTLES, WITH HIGHLY FUNCTIONAL USE

Family:	Publication number	Publication date	Application number	Application date
	<u>IN00679KO2006 A</u>	20070629	IN2006KO00679	20060706

Probable Assignee: PIERPAOLO URSO

Assignee(s): PIERPAOLO URSO

Inventor(s): PIERPAOLO URSO

International class B65D41/04
(IPC 1-7):

Abstract:

Source: IN00679KO2006A A stopper, particularly but not exclusively for bottles made of glass, comprising a stopper body provided internally with a seat which allows mating with the neck of a bottle, the seat being threaded internally, the stopper body being made of glass, plastics or metal, and optionally a butterfly-shaped portion being located at the upper end of the stopper.

0) GB174252A – NON-REFILLABLE BOTTLE

236) Family number: 18212014 (GB174252A)

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Title: Non-refillable bottle

Priority: GB19200032440 19201117

Family:	Publication number	Publication date	Application number	Application date
	<u>GB174252 A</u>	19220126	GB19200032440	19201117

Probable Assignee: ROBERT CAMPBELL STEVENSON

Assignee(s):^(std): ROBERT CAMPBELL STEVENSON

International class
(IPC 8-9): B65D55/02 (Advanced/Invention);
B65D55/02 (Core/Invention)

International class
(IPC 1-7): B65D49/00

CPC: B65D55/02

European class: B65D55/02

[Classification Explorer](#)

Abstract:

Source: GB174252A Bottles, non-refillable.—Relates to non-refillable bottles of the type provided with internal stoppers. In the form shown, a stopper 5 engages a rubber band 2 in the neck, a lug 7 affording means for drawing the stopper into position after filling. According to the invention, detents 4 are formed in the expanded portion of the bottle neck to hold the stopper against outward movement during pouring. In another form, the stopper is screwed upwards and is adapted to be engaged by a key to unseal the bottle. In each case, the lug 7 is ground off when the stopper is in the closed position.

0) GB235431A – IMPROVEMENTS IN OR RELATING TO THE CLOSURING OF...

237) Family number: 18596783 (GB235431A)

© PatBase

Title: Improvements in or relating to the closing of bottles and the like

Priority: GB19240020986 19240905

Family:	Publication number	Publication date	Application number	Application date
	<u>GB235431 A</u>	19250618	GB19240020986	19240905

Probable Assignee: WILLIAM JOHN JAGGERS

Assignee(s):^(std): J C ENO LTD ; WILLIAM JOHN JAGGERS

Assignee(s): J C ENO LIMITED

International class
(IPC 8-9): B65D41/04 (Advanced/Invention);
B65D41/04 (Core/Invention)

International class
(IPC 1-7): B65D41/06

CPC: B65D41/04

European class: B65D41/04

[Classification Explorer](#)

Forward Citations: US4257526,

Abstract:

Source: GB235431A Cap-stoppers, bayonet joint. –A thin metal cap for bottles c. having comparatively large necks and pouring orifices comprises a flat crown or top a<x>, Fig. 1, rounded or curved at the edge to merge into a roughened strip or band c formed in the usual deep skirt which is provided near its lower edge with two internal, diametrically-opposite projections d adapted to enter tapered L-shaped recesses f, Fig. 4, in the bottle neck b, the horizontal portions f<1> of the recesses having a length equal to about twice the diameter of the projections d. When the cap is in the closed position its lower edge is flush with an abutment flange g on the bottle neck.

0) GB345385A – IMPROVEMENT IN BOTTLE NECKS AND CAPS

238) Family number: 18810168 (GB345385A)

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Title: Improvement in bottle necks and caps

Family:	Publication number	Publication date	Application number	Application date
	<u>GB345385 A</u>	19310326	GB19300001279	19300114

Probable Assignee: ITSUO HIRAI

Assignee(s):^(std) ITSUO HIRAI ; SADA0 SUGIMOTO

International class
(IPC 8-9): B65D41/04 (Advanced/Invention);
B65D41/04 (Core/Invention)

International class
(IPC 1-7): B65D41/06

CPC: B65D41/0471

European class: B65D41/04E

[Classification Explorer](#)

Forward Citations: US4257526,

Abstract:

Source: GB345385A [Class 125 (iii).] The projections on the neck of a bottle forming part of a bayonet joint connection are positioned midway between a flange 3 and the top of the neck and are shaped, as in Fig. 3, with slant sides 4, parallel sides 5, 6, and narrowed portions 7, slight depressions 10 being formed which are finally engaged by and hold the internal projections in the cap. The flange 3 is engaged by a flared portion of the cap skirt. Reference has been directed by the Comptroller to Specifications 18496/99, [Class 125, Stoppering and c.], 3484/10, 187,555 and 289,870, [all in Class 125 (iii), Stoppers and c.].

Title: DISPENSER AND APPLICATOR**Priority:** US19600071544 19601125

Family:	Publication number	Publication date	Application number	Application date
	CH391979 A	19650515	CH19610013427	19611118
	GB913186 A	19621219	GB19610021597	19610615
	US3106742 A	19631015	US19600071544	19601125

Probable Assignee: AMERICAN CAN CO**Assignee(s):^(std):** AMERICAN CAN CO**Assignee(s):** AMERICAN CAN COMPANY**Inventor(s):^(std):** ARVID KJELLSSEN GRIMSLEY ; KJELLSSEN GRIMSLEY ARVID ; ROBERT STEPHEN SCHULTZ ; STEPHEN SCHULTZ ROBERT**Inventor(s):** SCHULTZ ROBERT STEPHEN ; GRIMSLEY ARVID KJELLSSEN

International class [A47L23/05 B65D47/42](#) (Advanced/Invention);
 (IPC 8-9): [A47L23/00 B65D47/00](#) (Core/Invention)

International class [A46B11/00 A47L A54D B43M11/00](#)
 (IPC 1-7):

CPC: [A47L23/05 B65D47/42](#)**European class:** [A47L23/05 B65D47/42](#)**US class:** [401/202 401/205 401/207](#)[Classification Explorer](#)**Cited documents:** US3038193 A, US2998902 A, US2937391 A, US2913747 A, US2877918 A, US2772432 A, US2663891 A, US2061318 A, US1185760 A,

Forward Citations: WO08138343, WO0211898, USD540865, US8944716, US7798154, US7614814, US7293931, US7114871, US7114871, US6981814, US6835018, US6536977, US5577851, US5263787, US5230579, US4747720, US4674903, US3403961, US3281887, US3261515, US3187367, US2012141189, US2007292193, US2007044249, US2006137999, US2005184095, US2005155979, US2005039272, US2004213628, US2004124117, US2004047674, US2004047672, FR2842713, EP1992571, EP1384416, EP1384416, EP1384415, EP1384415,

Abstract:

Source: GB913186A 913,186. Liquid applicators. AMERICAN CAN CO. June 15, 1961 [Nov. 25, 1960], No. 21597/61. Class 19. A liquid dispenser and applicator comprises a container having at one end an absorbent applicator element, valve means for controlling the flow of liquid from the container to the applicator element, means associated with said valve means and movable to effect actuation thereof and a cap adapted when fitted over the applicator to engage and move the valveactuating means and thereby close the valve and hermetically enclose said applicator element. As shown, a tubular container 13 of somewhat flexible plastics material has a neck which includes a large neck base 15 provided with an external thread 16 and a dispensing and valve-retaining head 17, the head being closed by an end wall 19 in the centre of which is a small dispensing orifice. A valve and actuator assembly 27 includes a skirt 29, a web 31 and an upstanding boss 33 having a socket 37 in which a port 39 carrying an applicator 41 is frictionally mounted. On the interior of the web 31 is a small projection 35 which co-operates with the orifice 21 and serves as a valve. On squeezing the container, liquid is led from the valve through off-centre conduits 43 to the applicator 41 through small metering orifices at the top of the boss 43. Locking rings 49, 51 on the interior of the skirt 29 are adapted to snap over retaining rings 23, 25 on the head 17 and to have an interference fit therewith. The valve and actuator assembly 27 can slide on the head 17 between two terminal positions whereby the orifice 21 may be opened or closed. The cap 53 is provided with threads 55 which co-operate with the threads 16 on the neck of the container. The cap includes an interior shoulder 57 so positioned that when the cap is screwed down the shoulder strikes the periphery of the actuator assembly 27 and forces the same downwardly to close the valve.

0) US2004178168A – CONTAINER STOPPER

240) Family number: 23175446 (US2004178168A)

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Title: CONTAINER STOPPER

Priority: AU2001PR06115 20010704 AU2001PR09097 20011126 AU20020318964 20020703
AU2001PR61151 20010704 US20030482384 20031231 US20080211541 20080916
WO2002AU00877 20020703

Family:	Publication number	Publication date	Application number	Application date
	<u>AR040322 AA</u>	20050330	AR2002P102512	20020704
	<u>AT420033 E</u>	20090115	AT20020748421T	20020703
	<u>AU2001006115 A0</u>	20010726	AU2001PR06115	20010704
	<u>AU2001009097 A0</u>	20011220	AU2001PR09097	20011126
	<u>AU2002318964 AA</u>	20030121	AU20020318964	20020703
	<u>AU2002318964 BB</u>	20050512	AU20020318964	20020703
	<u>AU2002318964 BH</u>	20050929	AU20020318964	20020703
	<u>CA2453032 AA</u>	20040105	CA20022453032	20020703
	<u>CL2002001486 A1</u>	20030704	CL20020001486	20020704
	<u>CN1288040 C</u>	20061206	CN20028013424	20020703
	<u>CN1527782 A</u>	20040908	CN20028013424	20020703
	<u>DE60230753 D1</u>	20090226	DE20026030753	20020703
	<u>EP1401721 A1</u>	20040331	EP20020748421	20020703
	<u>EP1401721 A4</u>	20060531	EP20020748421	20020703
	<u>EP1401721 B1</u>	20090107	EP20020748421	20020703
	<u>ES2321168 T3</u>	20090603	ES20020748421T	20020703
	<u>JP2004532777 T2</u>	20041028	JP20030510349T	20020703
	<u>NZ529774 A</u>	20041029	NZ20020529774	20020703
	<u>PT1401721 I</u>	20090409	PT20020748421T	20020703
	<u>US2004178168 AA</u>	20040916	US20030482384	20031231
	<u>US2009236355 AA</u>	20090924	US20080211541	20080916
	<u>WO03004367 A1</u>	20030116	WO2002AU00877	20020703
	<u>ZA200309923 A</u>	20040927	ZA20030009923	20031222

Probable Assignee: IRONSIDE TRADING PTY LTD

Assignee(s):^(std): IRONSIDE TRADING PTY LTD ; MATHESON NORMA CATHERINE ; PROCEL PTY LTD ; PROCORK PTY LTD

Inventor(s):^(std): MATHESON NORMA ; MATHESON NORMA CATHERINE ; NORMA CATHERINE MATHESON

Agent(s): IP STRATEGIES; OSLER HOSKIN AND HARCOURT LLP; PORZIO; GILLAM FRANCIS CYRIL ET AL; HASHIMOTO MASAO; MASUI CHUJI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; CONNOLLY BOVE LODGE AND HUTZ LLP

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

International class
(IPC 8-9): B32B37/12 B65D39/00 B65D39/04 B67B1/00 B67B1/03 (Advanced/Invention);
B32B37/12 B65D39/00 B67B1/00 (Core/Invention);
B65D B67B (Subclass/Invention)

International class
(IPC 1-7): B65D039/00 B65D39/00 B65D39/04 B67B1/03

CPC: B65D39/0058 B65D2539/008 Y10T156/10

European class: B65D39/00G1 L65D339/10 L65D539/00Y10 L65D539/10

US class: 156/60 215/364 220/801

[Classification Explorer](#)

Cited documents: WO0064647 A1, WO0034140 A1, US6796449 BB, US6601722 BA, US6355320, US5665462, US5527580 A, US5447246 A, US4854125 A, US4188457 A, US2006035074 AA, US2002014468 AA, FR983488 A, FR1534142 A, EP0532367 A2, DE4225092 A1, DE29912842 U1, DE29912842,

Forward Citations: WO15052659, WO11089245, WO10070033, WO10070033, WO08058344, WO07133438, WO04060763, WO04020299, WO03074379, WO03074379, US9573732, US8807363, US8414809, US8402921, US7997439, US7993743, US7966970, US7886923, US7517933, US2015266629, US2015166223, US2012266573, US2011180442, US2010213160, US2009236306, US2008078737, US2007272650, US2007262165, US2006222800, US2006124232, US2003102283, EP2347969, EP2199042, EP1908567, EP1587742, DE102006013102, CN103043274, CN103025619, BE1016664, AU2011208615, AU2007321722, AU2003261735, AU2003254400, AU2003209462,

Abstract:

Source: US2004178168A A container stopper comprising a compressible body (2) having at least one end for insertion into an opening of a container, and a film (1) on the end of the compressible body (2) for providing a protective layer between the compressible body and the container contents; wherein at least a region at the end of the compressible body has at least one property whereby upon compression of the body for insertion into an opening of a container said region compresses without substantially adversely affecting the protective layer provided by the film (1).

241) Family number: 23238139 (US6398050B)

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Title: LIQUID CONTAINER WITH OPPOSED OPENINGS AND AN END CAP FOR EACH OPENING, THE END CAPS ENGAGEABLE FOR STABILIZING THE CONTAINER ON A SMALLER END THEREOF

Priority: US20010767744 20010124

Publication number	Publication date	Application number	Application date
<u>US6398050 BA</u>	20020604	US20010767744	20010124

Probable Assignee: SILENT DYNAMITE LLC

Assignee(s): ALLORA VINCENT M ; SILENT DYNAMITE DESIGN SERVICES LLC ; SILENT DYNAMITE LLC

Inventor(s):^(std): ALLORA VINCENT M

International class
(IPC 8-9): A47G19/22 B65D1/06 B65D23/00 B65D39/08 B65D51/24 B65D81/36 (Advanced/Invention) ;
A47G19/22 B65D1/06 B65D23/00 B65D39/00 B65D51/24 B65D81/00 (Core/Invention)

International class
(IPC 1-7): B65D39/08

CPC: Y10S215/07 Y10S220/19 Y10S220/916 A47G19/2255 B65D1/06 B65D11/04 B65D23/001 B65D51/249 B65D81/36

European class: A47G19/22B8 B65D1/06 B65D11/04 B65D23/00B B65D51/24L B65D81/36

US class: 215/228 215/330 215/331 215/356 215/376 215/DIG.7 220/212 220/630 220/711 220/789 220/916 220/DIG.19 222/482

[Classification Explorer](#)

Cited documents: USD410364 S1, US6261042 BA, US6164473 A, US611520 A, US6089519 A, US5885332 A, US5829607 A, US5474206 A, US5141136 A, US477618 A, US4762241 A, US4618066 A, US4349116 A, US4289248 A, US4163517 A, US2990080 A, US2086404 A, US1770480 A, US1370665 A, DE74261 A, DE4109886 A1, DE3921971 A1,

Forward Citations: WO04043805, USD760593, USD756713, USD684275, USD605522, USD569271, US9282837, US9156719, US8944265, US8875922, US8866630, US8763849, US8689998, US8558715, US8430259, US8424704, US8365963, US8136692, US8020731, US7980403, US7891517, US7770748, US7757889, US7467726, US6905038, US6682028, US6662959, US2014374374, US2014183189, US2013291802, US2013270211, US2013228544, US2013075356, US2013026125, US2013015193, US2012228166, US2011309083, US2011011826, US2009250465, US2009250426, US2009218345, US2009188943, US2008314912, US2008264958, US2008169299, US2007284332, US2007039916, US2006000838, US2005092760, US2005045632, US2004118804, US2003209552, KR200475233, GB2488138, EP2579749, EP2579749, EP1447334, CN103142021, AU2011264788,

Abstract:

Source: US6398050B A liquid container with opposed openings has a smaller neck and larger base, with correspondingly sized openings and caps. The base cap includes a receptacle, for installing over the cap of the smaller diameter container end. The smaller diameter cap includes an outwardly extending non-circular flange, which engages the correspondingly shaped receptacle in the larger base end cap. The base cap receptacle also has a circular second, innermost area. The base cap receptacle is aligned with the flange of the smaller diameter cap and rotated ninety degrees, to misalign the two non-circular shapes and lock the smaller diameter cap flange within then innermost portion of the base cap receptacle. This permits the container to be inverted with the smaller diameter end downward, the larger diameter cap to be removed and installed on the now lowermost smaller diameter cap, and the contents dispensed from the uppermost larger diameter end.

242) Family number: 8798347 (US5794818A)

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Title: Container for bulk materials**Priority:** US19950555611 19951109 US19950555611 19951119 WO1996US13592 19960826**Family:**

Publication number	Publication date	Application number	Application date
<u>AU199668558 A1</u>	19970529	AU19960068558	19960826
<u>AU715342 B2</u>	20000120	AU19960068558	19960826
<u>CA2208955 AA</u>	19970626	CA19962208955	19960826
<u>CN1168125 A</u>	19971217	CN19961091374	19960826
<u>EP0801631 A1</u>	19971022	EP19960928994	19960826
<u>JP10512528 T2</u>	19981202	JP19970518154T	19960826
<u>KR19980701268 A</u>	19980515	KR19970704657	19960826
<u>MX9705157 A1</u>	19971031	MX19970005157	19960826
<u>NO973166 A</u>	19970708	NO19970003166	19970708
<u>NO973166 A0</u>	19970708	NO19970003166	19970708
<u>RU97113463 A</u>	19990620	RU19970113463	19970811
<u>US5794818 A</u>	19980818	US19950555611	19951109
<u>WO9717280 A1</u>	19970515	WO1996US13592	19960826

Probable Assignee: ROMEO RIM INC**Assignee(s):^(std):** ROMEO RIM INC**Assignee(s):** IMBODEN ALAN M ; SOMMER KARL L ; WITKOWSKI THOMAS G ; BROMWELL ROBERT A ; CITIZENS BANK ; GMAC COMMERCIAL FINANCE LLC ; HARRIS JACK E**Inventor(s):^(std):** BROMWELL ROBERT A ; HARRIS JACK E ; IMBODEN ALAN M ; SOMMER KARL L ; WITKOWSKI THOMAS G**Inventor(s):** THOMAS G WITKOWSKI ; KARL L SOMMER ; JACK E HARRIS ; ROBERT A BROMWELL ; ALAN M IMBODEN**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP**Designated states:** AL AM AT AU AZ 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 MK ML MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN

International class
 (IPC 8-9): B65D19/02 B65D77/06 B65D8/02 B65D8/04 B65D88/02 B65D90/00 B65D90/02
B67D5/02 B67D5/06 B67D7/06 (Advanced/Invention);
B65D19/02 B65D8/04 (Advanced/Non-invention);
B65D19/02 B65D77/06 B65D8/00 B65D8/04 B65D88/00 B65D90/00 B65D90/02
B67D7/06 (Core/Invention)

International class
 (IPC 1-7): B65D77/06 B65D88/02 B65D90/00 B65D90/02 B67D5/06

CPC: B65D11/10**European class:** B65D11/10**US class:** 220/108 220/143 220/182 220/185.1 220/684 220/693 222/105 222/108 222/143 222/182 222/185.1 222/684 222/693[Classification Explorer](#)**Cited documents:** US5564599 A, US5555996 A, US5445289 A, US5375741 A, US5232120 A, US5224635 A, US5201432 A, US5163587 A, US5156268 A, US5154297 A, US5133476 A, US5111937 A, US5110000 A, US5105947 A, US5064096 A, US5029734 A, US5024346 A, US4995588 A, US4949872 A, US4930661 A, US4793519 A, US4746034 A, US4516692 A, US4485924 A, US4426015 A, US4398653 A, US4231482 A, US4173288 A, US4158425 A, US4157609 A, US3785534 A, US3782602 A, US3729121 A,

US3448897 A, US3343719 A, US3261505 A, US3244311 A, US3072285 A, US2887251 A, FR1333605 A, AU3672858 A1, AU19351 A1,

Forward Citations: WO16106126, WO13057698, WO12151626, USRE46047, USD794445, USD793859, USD792194, USD767401, USD765816, USD666691, USD663325, USD550325, USD427206, US9758251, US9580239, US9079707, US9033173, US8905255, US8403236, US8402999, US7874443, US7275651, US7093722, US6854710, US6591986, US6050455, US2016123493, US2014262614, US2013240523, US2012240425, US2012152943, US2009301572, US2009228367, US2009228143, US2009134234, US2008035637, US2007228077, US2007056975, US2007045355, US2006032854, US2005145521, US2005098559, US2004094489, US2003121926, KR200473746, KR101394836, CN102481999, CN102481999,

Abstract:

Source: US5794818A A container (10) includes an upper shell (11) and a lower shell (12) attached thereto by a connection mechanism (39). Corner columns (40,61) are formed between the walls (26,28,30; 46,63,64) of the shells (11,12), respectively. Spaced ribs (42,70) extend inwardly from the walls (26,28,30; 46,63,64), respectively, to assist in supporting an internal container bottle (13). The bottle (13) has a valve assembly (59) which can be exposed through an opening (58) in the front wall (46). A valve access closure mechanism (60), including a door (143), is operable to close the opening (58). A lug (160) and notch (150) arrangement maintains the door (143) open, as desired. The bottom surface (74) of the container (10) is provided with a drainage system (76) having channels (78-81) all sloped toward a drain hole (82) so that any liquid in the container (10) is directed to the drain hole (82). Foot assemblies (14) include hollow, crushable foot members (118) of a predetermined profile. The foot members (118) are filled with a foam block (119) and have breakable tabs (104-108,110-112,114,115) which can be attached to the bottom surface (74). When a load is applied to the container (10), the tabs (104-108,110-112,114,115) will break and the foam will crush to absorb the energy and protect bottle (13). The top surface (15) of the container (10), while otherwise irregularly shaped, has flat ledges (21) near the corners thereof and of the same profile as the foot members (118) so that the container (10) can be stacked on a like container.

0) US2076132A – PREPARED BEVERAGE CONTAINER

243) Family number: 21556105 (US2076132A)

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Title: PREPARED BEVERAGE CONTAINER

Priority: US19350038832 19350831

Family:	Publication number	Publication date	Application number	Application date
	<u>US2076132 A</u>	19370406	US19350038832	19350831

Probable Assignee: LE ROSE CARL

Assignee(s):^(std): LE ROSE CARL

Inventor(s):^(std): LE ROSE CARL

Inventor(s): ROSE CARL LE

International class B65D51/28 (Advanced/Invention);
(IPC 8-9); B65D51/24 (Core/Invention)

CPC: B65D51/28 Y10S215/07 Y10S220/908

European class: B65D51/28

US class: 206/217 215/227 215/363 215/6 215/DIG.7 220/908 426/115 426/120

[Classification Explorer](#)

Forward Citations: WO9936319, USD703051, USD703050, USD703049, USD703048, USD516428, USD515437, USD495607, USD490709, USD479992, USD479991, USD477218, USD475622, USD472806, USD472804, USD471806, USD471805, USD471800, USD471450, USD471449, USD471448, USD471447, USD471446, USD471102, USD471101, USD453684, USD452826, USD452824, USD452823, USD452441, USD452440, USD452439, USD452438, USD452437, USD447418, USD447057, USD445337, USD445030, USD436033, USD436032, US8597236, US6811052, US6596328, US6472007, US5807597, US5674546, US5402907, US5045333, US4923702, US3962476, US3123205, US3071281, US2824010, US2739751, US2436097, US2015048002, US2012302948, US2010163559, US2009041909, US2007251910, US2006051463, US2005205586, US2004035817, US2003178337,

Abstract:

Source: US2076132A 1. A prepared beverage container construction of the class described comprising a beverage containing and drinking glass open at its top and provided with an internal stopper seating ledge disposed on a plane spaced downwardly from the extreme upper end, a removable stopper located in said upper end portion and seated on said ledge, an inverted ice cream containing cup formed at its bottom with a screw-threaded rim separably connected with said neck, said cup at the juncture of the rim and body portion being formed into a keeper channel, and a removable stopper located in said keeper channel and disposed in spaced parallelism to the upper end of the glass.

0) GB403748A – IMPROVEMENTS RELATING TO THE MANUFACTURE OF JAR...

244) Family number: 29643999 (GB403748A)

© PatBase

Title: Improvements relating to the manufacture of jars, bottles and like vessels of pottery ware

Priority: GB19320019659 19320712

Family:	Publication number	Publication date	Application number	Application date
	<u>GB403748 A</u>	19340104	GB19320019659	19320712

Probable Assignee: ERIC MCKINNON BUCHAN

Assignee(s):^(std) CARLYLE BUCHAN ; ERIC MCKINNON BUCHAN ; SAMUEL MILNE BUCHAN

International class B65D41/04 (Advanced/Invention) ;
^{(IPC 8-9) :} B65D41/04 (Core/Invention)

International class B65D1/10
^{(IPC 1-7) :}

CPC: B65D41/04

European class: B65D41/04

[Classification Explorer](#)

Abstract:

Source: GB403748A 19659. [Class 125 (iii).] The neck 5 of an earthenware jar, bottle or the like 6 is formed, while in a plastic condition, with an annular rim parallel to, and at or near the upper edge, which is subsequently cut away to form a series of projections 9 for engagement with the mutilated screw thread 10 of a cover 11.

245) Family number: 30464439 (ES1006056Y)

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Title: CAPERUZA PERFECCIONADA PARA TAPONES IRRELLENABLES.**Priority:** ES19880001139U 19880413**Family:**

Publication number	Publication date	Application number	Application date
ES1006056 UA	19881201	ES19880001139U	19880413
ES1006056 Y1	19910401	ES19880001139U	19880413
ES1006056 YA	19910401	ES19880001139U	19880413

Probable Assignee: COMPANIA DE TAPONES IRRELLENABLES SA**Assignee(s):** COMPANIA DE TAPONES IRRELLENABLES S A ; COMPANIA DE TAPONES IRRELLENABLES SA**Inventor(s):** TORRENT GARCIA JOSE MARIA**International class** [B65D51/20](#) (Advanced/Invention) ;
(IPC 8-9) ; [B65D51/18](#) (Core/Invention)**International class** [B65D51/20](#)
(IPC 1-7) ;[Classification Explorer](#)**Abstract:**

Source: ES1006056U CAPERUZA PERFECCIONADA PARA TAPONES IRRELLENABLES, QUE SIENDO DEL TIPO DE LAS QUE INCORPORAN UN SALIENTE O DIENTE PERIMETRAL INTERNO COMO MEDIO DE FIJACION A UNA GARGANTA COMPLEMENTARIA DEL GOLLETE DE LA BOTELLA, SE CARACTERIZA PORQUE A PARTIR DEL COMENTADO SALIENTE O DIENTE PERIMETRAL INTERNO Y EN DIRECCION HACIA EL BORDE O EMBOCADURA DE LA CAPERUZA, SE HAN PREVISTO UNA SERIE DE RESALTES O NERVIOS EN EL SENTIDO DE LAS GENERATRICES, REGULARMENTE DISTRIBUIDOS Y QUE EN SU CONJUNTO CONSTITUYEN UN MEDIO DE PRESIONADO CONTRA EL GOLLETE DE LA BOTELLA PARA IMPEDIR EL GIRO DE LA CAPERUZA, HABIENDOSE PREVISTO QUE EN CORRESPONDENCIA CON LA PARTE SUPERIOR OPUESTA A LA DE LA EMBOCADURA CITADA, TAL CUERPO DE CAPERUZA CUENTE CON UN ESCALONAMIENTO INTERNO CONSTITUTIVO DEL MEDIO DE RETENCION DEL TAPON IRRELLENABLE PREVIAMENTE FIJADO SOBRE LA BOTELLA, CONTANDO POR ENCIMA DE ESTE ESCALONAMIENTO INTERNO CON OTRO ESCALONAMIENTO EXTERNO Y A CONTINUACION DEL MISMO CON UN TAPON MANIPULABLE UNIDO A LA PROPIA CAPERUZA A TRAVES DE UNA LINEA DE DEBILITAMIENTO DESGARRABLE, TAPON MANIPULABLE QUE CUENTA CON UN APENDICE AXIAL E INTERNO QUE EMERGE CENTRALMENTE DE SU BASE Y CON UN NERVIOS ANULAR EN PROXIMIDAD A SU PARED LATERAL, QUE CONJUNTAMENTE DETERMINAN EL MEDIO DE OBTURACION DEL TAPON IRRELLENABLE PARA IMPEDIR QUE EL LIQUIDO CONTENIDO EN LA BOTELLA PUEDA VERTERSE EN CASO DE QUE TAL BOTELLA SE DISPONGA DE FORMA ABATIDA O CON SU EMBOCADURA HACIA ABAJO; HABIENDOSE PREVISTO ADEMAS QUE DICHO TAPON MANIPULABLE CUENTE EN SU SUPERFICIE LATERAL EN CORRESPONDENCIA CON SU ZONA EXTREMA SUPERIOR CON UNA SERIE DE NERVADURAS EN EL SENTIDO DE LAS GENERATRICES, EN ORDEN A CONSTITUIR UN MEDIO PARA EL MONTAJE DE UNA SEGUNDA CAPERUZA PROTECTORA DE TAL TAPON MANIPULABLE, CAPERUZA QUE APOYARA POR SU BORDE SOBRE EL ESCALONAMIENTO EXTERNO PREVISTO EN LA PARTE SUPERIOR DE LA CAPERUZA FIJADA AL GOLLETE DE LA BOTELLA. Cap perfected for non-refillable caps, which BEING OF THE TYPE INCORPORATING A PROJECTION OR INNER PERIMETER TOOTH AS A MEANS OF ATTACHMENT TO A COMPLEMENTARY GROOVE OF THE NECK OF THE BOTTLE, characterized in that FROM SAID PROJECTION OR INNER PERIMETER TOOTH AND TOWARD THE EDGE OR MOUTH OF THE CAP, THERE ARE PROVIDED A SERIES OF PROJECTIONS OR RIBS IN THE SENSE OF THE GENERATRICES, regularly distributed AND WHICH TOGETHER CONSTITUTE A MEANS OF PRESSED AGAINST THE NECK OF THE BOTTLE TO PREVENT ROTATION OF THE CAP, HAVING BEEN PROVIDED THAT IN CORRESPONDENCE WITH THE UPPER PART OF THE MOUTH OPPOSITE TO THE ABOVE, SUCH A BODY CAP HAS AN INTERNAL staggering Forming the retaining means of the non-refillable CAP PREVIOUSLY FIXED ON THE BOTTLE, counting ABOVE THIS INTERNAL STAGGERING WITH ANOTHER EXTERNAL STEPPING AND THEN THEREOF WITH A MANIPULABLE CAP ATTACHED TO THE CAP THROUGH A weakening line tear, WHICH HAS AN AXIAL APPENDIX AND INTERNAL MANIPULABLE PLUG WHICH EMERGES CENTRALLY OF THE BASE AND AN ANNULAR RIB IN PROXIMITY TO ITS side wall, which together DETERMINE THE SEALING MEANS OF THE NON-REFILLABLE CAP TO PREVENT THE LIQUID CONTAINED IN THE BOTTLE CAN BE POURED IN CASE SUCH BOTTLE IS ARRANGED IN A FOLDED OR WITH HIS MOUTH DOWN; HAVING FURTHER PROVIDED THAT SAID PLUG MANIPULABLE COUNT IN ITS LATERAL SURFACE IN CORRESPONDENCE WITH ITS UPPER END WITH A SERIES OF RIBS IN THE SENSE OF THE GENERATRICES, IN ORDER TO CONSTITUTE A MEANS FOR MOUNTING A SECOND PROTECTIVE CAP OF SUCH A PLUG are manipulated, TO SUPPORT BY ITS EDGE ON THE

EXTERNAL STEPPING CAP provided in the TOP OF THE CAP ATTACHED TO THE NECK OF THE BOTTLE.

246) Family number: 36989712 (GB191025299A)

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Title: Improvements in Internally Stopping Bottles for Non-aerated Liquids to Prevent Fraudulent Re-filling.**Priority:** 19101031

Publication number	Publication date	Application number	Application date
<u>GB191025299 A</u>	19110928		00000000

Probable Assignee: MILLS THOMAS**Assignee(s):^(std):** MILLS THOMAS**Assignee(s):** THOMAS MILLS**Inventor(s):^(std):** MILLS THOMAS**Inventor(s):** THOMAS MILLS**International class** B65D55/02 (Advanced/Invention);
(IPC 8-9): B65D55/02 (Core/Invention)**CPC:** B65D55/02**European class:** B65D55/02[Classification Explorer](#)**Forward Citations:** WO14042884,**Abstract:**

Source: GB191025299A 25,299. Mills, T. Oct. 31. Bottles, non-refillable.—Relates to bottles fitted with stoppers which are inserted in the bottle in the process of manufacture, and are provided with a wire or other projection, by means of which the stopper is pulled upwards and wedged in the neck to close the bottle, and which fall to the bottom when the bottle is opened. The bottle neck has in turned flanges 4, Fig. 2, between which a washer 5 is placed. The lower flange may be dispensed with. In a modification the stopper 1, Fig. 7, is screwed into a disk 11 and cut off flush with the disk, the washer 5 being placed at the bottom end of the stopper.

0) GB1408841A – CLOSURE FOR CONTAINERS

247) Family number: 3884245 (GB1408841A)

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Title: CLOSURE FOR CONTAINERS

Priority: GB19730000225 19730102

Family:	Publication number	Publication date	Application number	Application date
	<u>GB1408841 A</u>	19751008	GB19730000225	19730102

Probable Assignee: HOSPITAL SERVICE TECHNOLOGY CO

Assignee(s):^(std): HOSPITAL SERVICE TECHNOLOGY CO

Assignee(s): HOSPITAL SERVICE TECHNOLOGY CORP

International class B65D51/00 (Advanced/Invention);
(IPC 8-9): B65D51/00 (Core/Invention)

International class B65D39/00 B65D41/20
(IPC 1-7):

CPC: B65D51/002

European class: B65D51/00B

[Classification Explorer](#)

Forward Citations: EP0297854, EP0297854,

Abstract:

Source: GB1408841A 1408841 Closures HOSPITAL SERVICE TECHNOLOGY CORP 2 Jan 1973 225/73
Heading B8T A biological culture medium is sealed under partial vacuum in a bottle 10 by means of a cap assembly comprising a screw-threaded cap 12 engaging the bottle neck and a self-sealing rubber grommet 13 disposed in an aperture 14 in the cap 12, the upper flange 16 of the grommet being dimensioned to be at least 1A2 times (preferably 1A5 times) the colinear dimension of the aperture 14 on the cap 12. The bottle is sealed at high temperature or is sealed and raised to high temperature in an autoclave.

248) Family number: 4790462 (US4524809A)

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Title: FITMENTS FOR CONTAINERS FROM WHICH LIQUID IS INTENDED TO BE WITHDRAWN BY A HOLLOW NEEDLE OR TUBE**Priority:** EP19840300550 19840130 GB19830002481 19830129

Family:	Publication number	Publication date	Application number	Application date
	<u>AT26564 E</u>	19870515	AT19840300550T	19840130
	<u>DE3463131 D1</u>	19870521	DE19843463131	19840130
	<u>EP0116429 A1</u>	19840822	EP19840300550	19840130
	<u>EP0116429 B1</u>	19870415	EP19840300550	19840130
	GB8302481 A0	19830302	GB19830002481	19830129
	<u>US4524809 A</u>	19850625	US19830496488	19830517

Probable Assignee: STERIMATIC HOLDINGS A CO OF BRITISH VIRGIN ISLANDS LTD**Assignee(s):^(std):** STERIMATIC HOLDINGS LTD**Assignee(s):** STERIMATIC HOLDINGS A CO OF BRITISH VIRGIN ISLANDS ; STERIMATIC HOLDINGS A CO OF BRITISH VIRGIN ISLANDS LTD ; STERIMATIC HOLDINGS LIMITED**Inventor(s):^(std):** DENT HUGH R ; DENT HUGH ROBERT**Designated states:** AT BE CH DE FR GB IT LI NL SE**International class**
(IPC 8-9): A61J1/00 A61J1/14 B65D51/00 (Advanced/Invention);
A61J1/00 A61J1/14 B65D51/00 (Core/Invention)**International class**
(IPC 1-7): A61J1/00 B65B3/04 B65D51/00**CPC:** A61J1/1443 B65D51/002 A61J1/1468**European class:** A61J1/14F B65D51/00B K61J1/14M**US class:** 141/1 141/18 141/329 141/98 215/251 604/415[Classification Explorer](#)**Cited documents:** US4011961 A, US3871545 A, US3356244 A, US2459304 A, US1189465 A, FR2496603 A1, FR1271249 A, AU209183 A1,**Forward Citations:** WO9742305, WO9420383, USRE45194, US8685347, US8622985, US8057762, US8052944, US7824922, US6171293, US5511592, US5464111, US5108387, US4671331, US2008312633, EP1384466,**Abstract:**

Source: US4524809A A bottle containing injection liquid from which liquid is intended to be withdrawn by inserting a hollow needle into the bottle is provided with a fitment for sterilizing the needle as it is introduced into the bottle. The fitment comprises connector attached to the bottle and a detachable cap having a body part which is received within a tubular part of the connector. The cap is in the form of an enclosure containing a body of absorbent material impregnated with sterilizing substance and incorporating an end wall having an integral removable portion separable therefrom by rupturing the material of the end wall so as to form an aperture in the end wall through which the point of the needle may pass into the enclosure. The point of the needle is thereby sterilized as it is moved through the enclosure into the bottle to withdraw liquid therefrom and is sterilized for a second time on withdrawal from the fitment. After use the cap may be replaced by a cap containing fresh sterilizing substance, and the sterilizing substance is prevented from being contaminated from outside, until it is to be used, by the removable portion.

0) GB2041892A – CONTAINERS AND CLOSURES

249) Family number: 5027745 (GB2041892A)

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Title: Containers and Closures

Priority: GB19790004636 19790209

Family:	Publication number	Publication date	Application number	Application date
	<u>GB2041892 A1</u>	19800917	GB19790004636	19790209

Probable Assignee: UNITED GLASS LTD

Assignee(s):^(std): UNITED GLASS LTD

International class B65D41/17 (Advanced/Invention);
(IPC 8-9): B65D41/02 (Core/Invention)

International class B65D41/16
(IPC 1-7):

CPC: B65D41/17

European class: B65D41/17

[Classification Explorer](#)

Forward Citations: US5527513, US5458854, US5384096, JP4937019, JP2009018832, GB2322362, GB2322362, GB2290535, GB2290535, EP0603978,

Abstract:

Source: GB2041892A A bottle having an upstanding neck 2 provided with a first sloping cam surface 6 has a snap-fitting cap 10 having an internal cylindrical skirt 14 provided with a second sloping cam surface 18 matching the first sloping cam surface 6, whereby relative rotation between the cap 10 and the bottle causes the second cam surface 18 to ride up the first cam surface 6 a distance sufficient to cause the cap to snap free of the bottle, the bottle being provided, beneath the first sloping cam surface 6, with an annular inwardly-directed groove 8 and the internal surface of the external skirt of the cap having at least one inwardly-directed protuberance 20 engaged in the annular groove.

250) Family number: 50640874 (US2012037529A)

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Title: BOTTLE SHIPMENT PACKAGING AND METHOD
Priority: US20100372178P 20100810 US20110197384 20110803 US20130875950 20130502
Family:

Publication number	Publication date	Application number	Application date
US2012037529 AA	20120216	US20110197384	20110803
US2013240395 AA	20130919	US20130875950	20130502
US8434620 BB	20130507	US20110197384	20110803
US8844718 BB	20140930	US20130875950	20130502

Probable Assignee: GRAFCOR PACKAGING INC
Assignee(s):^(std): GRAFCOR PACKAGING INC ; HALL WILLIAM E
Inventor(s):^(std): HALL WILLIAM E
Agent(s): LEYDIG VOIT AND MAYER LTD
International class [B65B1/04 B65B21/02 B65B5/08 B65B55/00 B65D81/127 B65D81/133](#) (Advanced/Invention)
(IPC 8-9):
CPC: [B65B5/08 B65B21/02 B65B55/00 B65D81/133 B65D5/48038 B65D5/503](#)
European class: [B65D5/48B1E B65D5/50D1 B65D81/133](#)
US class: [206/433 206/593 220/532 220/552 53/448 53/467 53/467S 53/472](#)

[Classification Explorer](#)

Cited documents: US7883001 BB, US7017746 BB, US6910582 BB, US6820743 BB, US6290057 BA, US5816409 A, US5427222 A, US5377862 A, US5335770 A, US5201421 A, US5071026 A, US4932548 A, US4793548 A, US3930579 A, US3421679 A, US3039667 A, US3038625 A, US2973119 A, US2222572 A, US2189410 A, US2050143 A, US2008184674 AA,
Forward Citations: WO17034910, US9725222, US9586220, US9335198, US8998018, US8944351, US8887916, US2016039587, US2015114853, US2013313145, US2012279613, RU2623973, JP5976460, JP2014043322,

Abstract:

Source: US2012037529A A bottle packaging for shipment includes a bottom tray, and a top tray made of molded pulp fiber, such as newspaper pulp, and a cardboard partition support structure disposed between the trays. Cavities formed in the bottom and top trays are arranged to engage both ends of a bottle and include crushable elements that can axially engage each bottle. The support partition may be made of corrugated cardboard material and be arranged such that the cardboard flutes provide support for loads imparted to the sides of the carton when the carton is laying on its side. The partition forms a void surrounding each bottle in the area of its labels. In this way, structural support and cushioning can be provided to the packaged bottles from all directions.

251) Family number: 45440801 (US2011315591A)

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Title: POLYESTER POLYMER HAVING PHENOLIC FUNCTIONALITY AND COATING COMPOSITIONS FORMED THEREFROM

Priority: US20080121454P 20081210 US20090133257 20091209 WO2009US67347 20091209
US20150747081 20150623 US20110133257 20110802

Family:	Publication number	Publication date	Application number	Application date
	CN102245721 A	20111116	CN200980149848	20091209
	CN102245721 B	20150311	CN200980149848	20091209
	EP2373751 A1	20111012	EP20090768308	20091209
	MX2011006246 A1	20110713	MX20110006246	20091209
	US2011315591 AA	20111229	US20090133257	20091209
	US2015368507 AA	20151224	US20150747081	20150623
	US9096772 BB	20150804	US20090133257	20091209
	WO10068673 A1	20100617	WO2009US67347	20091209

Probable Assignee: VALSPAR SOURCING INC**Assignee(s):**^(std) LESPINASSE ROBERT ; PROUVOST BENOIT ; STENSON PAUL ; VALSPAR SOURCING INC**Inventor(s):**^(std) BENOIT PROUVOST ; LESPINASSE ROBERT ; PAUL STENSON ; PROUVOST BENOIT ; ROBERT LESPINASSE ; STENSON PAUL**Agent(s):** VOSSIUS AND PARTNER; DEMASTER ANDREW A**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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class [A23B7/16](#) [B65D1/12](#) [B65D25/14](#) [B65D85/84](#) [C08G63/60](#) [C09D167/00](#) (Advanced/Invention);
(IPC 8-9); [C08L61/06](#) (Advanced/Non-invention);
[C09D167/00](#) (Core/Invention)

CPC: [C09D167/00](#) [C08L61/06](#) [C08L2666/16](#) [B65D1/12](#) [B65D25/14](#) [Y10T428/1355](#)**European class:** [C09D167/00](#) [M08L61/06](#)**US class:** [1/1](#) [206/524.3](#) [206/524.300P](#) [428/35.8](#) [523/100](#) [523/100S](#)[Classification Explorer](#)**Cited documents:** US6472480 BA, US5631330 A, US5491031 A, US5416187 A, US5393840 A, US5359025 A, US5256756 A, US5239018 A, US4365039 A, US4343839 A, US4298658 A, US3647757 A, US2007281179 AA, US2007054140 AA, US2007036903 AA, US2005192423 AA, US2005014012 AA, US2003069334 AA, JP2005126635 A2, JP2002088231 A2, GB1554174 A, CN1051738,**Forward Citations:** WO14025411, US9724276, US9650539, US9650176, US9598602, US9593195, US9540484, US9487619, US9475328, US9409219, US9328260, US8771913, US2016115345, US2015197668, EP2686353,**Abstract:**

Source: US2011315591A A polyester polymer is provided that includes at least one pendant phenolic-containing group. In one embodiment, the polyester polymer is combined with an optional crosslinker and an optional carrier to form a coating composition suitable for use in coating articles such as packaging articles. The coating composition typically includes a resole phenolic crosslinker. In one embodiment, the polyester polymer has at least one phenolic-containing group that comprises an adduct of cardanol.

252) Family number: 55622366 (US2014014611A)

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Title: CHILD-RESISTANT CAP FOR LIQUID MEDICAMENTS
Priority: US20120671194P 20120713 US20130940666 20130712 WO2013US50220 20130712
Family:

Publication number	Publication date	Application number	Application date
CA2879081 AA	20150113	CA20132879081	20130712
CN104603017 A	20150506	CN201380045795	20130712
CN104603017 B	20161102	CN201380045795	20130712
EP2872415 A1	20150520	EP20130816761	20130712
EP2872415 A4	20160224	EP20130816761	20130712
JP2015527268 T2	20150917	JP20150521833T	20130712
MX2015000555 A1	20150508	MX20150000555	20130712
US2014014611 AA	20140116	US20130940666	20130712
WO14011965 A1	20140116	WO2013US50220	20130712

Probable Assignee: COMAR LLC**Assignee(s):^(std):** COMAR INC**Assignee(s):** COMAR LLC ; GRANATO RUSS ; KERSHNER DAVID ; HAROLD REDD ; DALY JOHN ; DIPLACIDO KEVIN ; MANERA DAVID ; STANGLE TIMOTHY ; BANK OF MONTREAL AGENT AS ; BUEHLER JOHN**Inventor(s):^(std):** BUEHLER JOHN ; BUEHLER JOHN D ; DALY JOHN ; DALY JOHN B ; DIPLACIDO KEVIN ; DIPLACIDO KEVIN A ; GRANATO RUSS ; HAROLD REDD ; HAROLD REDD J ; MANERA DAVID ; MANERA DAVID A ; KERSHNER DAVID ; KERSHNER DAVID T ; STANGLE TIMOTHY ; STANGLE TIMOTHY K**Inventor(s):** TIMOTHY STANGLE ; KEVIN DIPLACIDO ; REDD HAROLD ; RUSS GRANATO ; JOHN BUEHLER ; JOHN DALY ; DAVID KERSHNER ; DAVID MANERA**Agent(s):** BERESKIN AND PARR LLP SENCRL SRL; LEONARD THOMAS CHARLES; GANNON JAMES**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**International class** [A61J1/05 B65D41/04 B65D50/02 B65D50/04](#) (Advanced/Invention)
(IPC 8-9):**CPC:** [B65D50/02 B65D50/041](#)**US class:** [215/217 53/492](#)[Classification Explorer](#)**Cited documents:** US5667085 A, US5316161 A, US4319690 A, US3797688 A, US2011142526 AA, JP8268452 A2, JP52165857 U1, JP2000226047 A2, FR2532625 A2, EP1002737 A1, DE7520607 U,**Forward Citations:** USD796325, USD784812, US2016288965,**Abstract:**

Source: US2014014611A An improved child-resistant closure for dispensers of liquid medicaments, the closure being of a two-part construction. The closure has an outer cap with a quantity of shoulder lugs and skirt lugs and an inner cap with a quantity of shoulder lugs and flexible beams. The closure has equal quantities of shoulder lugs on the inner and outer caps, equal quantities of skirt lugs and flexible beams, flexible beams having an arcuate underside, shoulder lugs having a depth to prevent hyper-flexion of the flexible beams, and an ideal overlap when the faces of the shoulder lugs are aligned. Additionally, provided are methods for attaching and removing the cap from a pre-existing bottle.

253) Family number: 8525383 (WO9514617A1)

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Title: SCREW CLOSURE MADE OF MOULDED SYNTHETIC RESIN WITH TAMPERPROOF SEAL**Priority:** IT1993FI00241 19931129 WO1994IT00197 19941125

Family:	Publication number	Publication date	Application number	Application date
	<u>AU199511189 A1</u>	19950613	AU19950011189	19941125
	<u>IT1271496 B</u>	19970530	IT1993FI00241	19931129
	<u>ITFI930241 A0</u>	19931129	IT1993FI00241	19931129
	<u>ITFI930241 A1</u>	19950529	IT1993FI00241	19931129
	<u>WO9514617 A1</u>	19950601	WO1994IT00197	19941125

Probable Assignee: METALFIN S R L**Assignee(s):^(std):** METALFIN S R L ; TADDEI BRUNO**Assignee(s):** METALFIN SRL**Inventor(s):^(std):** TADDEI BRUNO**Inventor(s):** BRUNO TADDEI**Designated states:** AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LK LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA US UZ VN**International class**
(IPC 8-9): B65D41/34 (Advanced/Invention);
B65D41/34 (Core/Invention)**International class**
(IPC 1-7): B65D B65D41/34**CPC:** B65D41/3447 B65D2101/003 B65D2101/0046 B65D2101/0053**European class:** B65D41/34D1 L65D101/00A3B L65D101/00A3D L65D101/00A3E[Classification Explorer](#)**Cited documents:** US5248050 A, US4401227 A, US4393978 A, EP0419272 A1, DE3025903 A1,**Forward Citations:** WO9815465, WO09056647, WO06013439, WO05019057, WO04024586, US9475618, US7156247, EP2055645, EP0931001, DE19730324,**Abstract:**

The side wall (1B) of the cap (1) has at least one circumscribed area (7) which is connected to the said wall by bridges (12, 12A and 10), at least one of which can be broken; in the said at least one circumscribed area (7) is formed an internal projection (14) which is designed to engage with the annular ridge (5C) on the neck (5) of the bottle or other article, in order to constitute the tamperproof seal.

254) Family number: 10128 (BRMU7400637U)

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Title: Disposicao introduzida em frasco para embalar condimentos Character introduced in bottle to pack condiments (Machine translation)

Priority: BR1994MU00637U 19940407

Family:	Publication number	Publication date	Application number	Application date
	<u>BRMU7400637 U</u>	19951107	BR1994MU00637U	19940407

Probable Assignee: SCOMPARIN EDISON LUIZ

Assignee(s):^(std): SCOMPARIN EDISON LUIZ

Inventor(s):^(std): SCOMPARIN EDISON LUIZ

Inventor(s): EDISON LUIZ SCOMPARIN

International class B65D1/32 (Advanced/Invention);
(IPC 8-9): B65D1/00 (Core/Invention)

International class B65D1/32
(IPC 1-7):

[Classification Explorer](#)

Abstract:

Source: BRMU7400637U [Source: Claim 1] 1) "DISPOSICAO INTRODUZIDA EM FRASCO PARA EMBALAR CONDIMENTOS", compreendido por um recipiente verticalizado (1), ligeiramente conico e 05 terminado em curto gargalo cilindrico 2, que recebe uma tampa 3 formada por base cilindrica 4, que se acopla ao gargalo (2) e da qual se prolonga um bico dispensador conico (5), que e originalmente fechado por uma ponta rompivel (6); dito recipiente (1) e tampa (3) 10 sao obtidos a partir de material plastico ligeiramente maleavel, caracterizado pelo fato de que e previsto um dispositivo de vedacao/fixacao da tampa (3) ao gargalo (2) do recipiente (1), compreendido, essencialmente, por vedacao, composta pela base (4) da tampa (3) e pelo 15 gargalo (2) escalonados, de modo que no interior da tampa (3) formam-se superficies anelares e lisas: radial extrema superior (10); axial intermediaria (11); radial intermediaria (10') e axial extrema inferior (11'), as quais vedam contra, respectivamente: a borda 20 livre (12) de um trecho superior mais estreito (13) do gargalo (2); uma nervura lateral contornante (14) de aludido trecho de gargalo (13); superficie radial superior (15) de trecho inferior mais largo (16) do [Source: Claim 1] 1) "CHARACTER INTRODUCED in BOTTLE for PACKING HERBS and SPICES", comprised of a vertical container (1), slightly conical and 05 finished in short cylindrical neck, which receives a 2 3 cover formed by 4 cylindrical base, which attaches to the neck (2) and of which extends a conical dispenser spout (5), which originally enclosed by a rompivel tip (6); said container (1) and Cap (3) 10 are made from plastic material slightly malleable, characterized by the fact that and provided for a wire device/fixation of the cover (3) to the neck (2) of the container (1), understood, essentially, by wire, composed by the base (4) of the lid (3) and 15 (2) bottleneck staggered, so that the inside of the lid (3) form ring and smooth surfaces: radial extreme superior (10); intermediate axial (11); intermediate (10') radial and axial extreme bottom (11'), which seal against, respectively: 20 free edge (12) a narrower upper section (13) of the neck (2); a lateral expansion rib (14) alluded to bottleneck snippet (13); radial surface top (15) of lower stretch wider (16) of the

Title: Bottle closure and pourer
Priority: GB19620037583 19621004

Family:	Publication number	Publication date	Application number	Application date
	<u>GB981206 A</u>	19650120	GB19620037583	19621004

Probable Assignee: SCHENLEY IND INC
Assignee(s):^(std): SCHENLEY IND INC
Assignee(s): SCHENLEY INDUSTRIES INC
Inventor(s):^(std): GOLDSTEIN DANIEL

International class
 (IPC 8-9): B65D47/06 (Advanced/Invention);
B65D47/06 (Core/Invention)

International class
 (IPC 1-7): B65D47/26

CPC: B65D47/061

European class: B65D47/06A

[Classification Explorer](#)

Abstract:

Source: GB981206A 981,206. Bottle closures and pourers. SCHENLEY INDUSTRIES Inc. Oct. 4, 1962, No. 37583/62. Heading B8T. A container closure and pourer comprises an outer fitment part 10, and an insert 24 which has limited free sliding movement between an extended, pouring position and a retracted, sealed position; in the extended position an abutment 35 forms a sealing contact with a shoulder 19, a passageway 28 opening from the inner end 26 of the insert opens laterally at 30. The insert contains a blind passageway 31 which receives liquid to facilitate extension under gravity on inversion of the container, and on erection retains the liquid in the passageway 31 due to suction and facilitates retraction under gravity. A lug 40 contains grooves 41 which connect with air inlet passages 39, and ribs are spaced around the insert to eliminate sticking. For prevention of evaporation and contamination a disc may be placed between the top of the container 45 and the shoulder 14. Alternatively, the insert 24a may have a bevelled skirt 50, Fig. 13, which upon tipping the container forms an effective seal with the outer fitment part 10a, and also effects quicker extension of the insert.

256) Family number: 32630448 (BRPI0402442A)

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Title: TAMPA DE SEGURANCA COVER SAFETY (Machine translation)**Priority:** BR2004PI02442 20040625

Family:	Publication number	Publication date	Application number	Application date
	<u>BRPI0402442 A</u>	20060207	BR2004PI02442	20040625

Probable Assignee: GARBONI GIOVANNI**Assignee(s):^(std):** GARBONI GIOVANNI**Assignee(s):** GIOVANNI GARBONI**Inventor(s):^(std):** GARBONI GIOVANNI**Inventor(s):** GIOVANNI GARBONI

International class B65D50/06 (Advanced/Invention);
 (IPC 8-9): B65D50/00 (Core/Invention)

International class B65D50/06
 (IPC 1-7):

[Classification Explorer](#)**Abstract:**

Source: BRPI0402442A 1 • # ss # # ##### • t • • • f • • • • ##### # # e e e # # #
 # # # # ... 5 10 TAMPA DE SEGURANCA Constituida a partir de uma tampa de fechamento cilindrica,
 ou de qualquer outro formato adequado para esta aplicacao, que, em condicoes normais, ira girar louca no
 gargalo do frasco, e que possui ainda um elemento anelar, disposto na parte inferior da tampa, que se solidariza
 a esta atraves de pontos de baixa resistencia, sendo previstos ainda na parte externa do corpo da tampa dois
 pontos de pressao, os quais correspondem, na parte interna do corpo da tampa, a segmentos de roscas, que,
 quando pressionados, cooperam com as roscas do batoque de fechamento do gargalo do frasco, e possibilitam o
 desrosqueamento e a retirada da tampa, sendo que, para isso, os movimentos de pressao e rotacao da tampa
 deverao ocorrer de forma simultanea. # 1 • ss # # # ##### t • • • • • f # ##### # and
 ee # # # # # # 5 10 Consisting SECURITY COVER from a cylindrical closure cap, or any
 other suitable format for this application, which under normal conditions, will turn crazy in the neck of the bottle,
 and also has an annular element disposed in the bottom of the cover, which sympathizes this through the low
 resistance points, and also provided on the outside of body of the two-point pressure cover, which correspond to
 the internal part of the cap body, the segments of threads, which, when pressed, cooperate with the bung threads
 of the bottle neck closure and allow the unscrewing and removal cover, and, for this, the movements of pressure
 and rotation of the cover should take place of simultaneous way.

257) Family number: 52325460 (US2014131302A)

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Title: REMOVABLE BOTTLE CAP ASSEMBLY WITH INTERNAL STORAGE COMPARTMENT

Priority: GB20120015148 20120624 GB20120015148 20120824 US20120686751P 20120411
US20130859910 20130410 US20140256188 20140418

Family:	Publication number	Publication date	Application number	Application date
	GB201215148 A0	20121010	GB20120015148	20120824
	GB201218093 A0	20121121	GB20120018093	20121009
	<u>GB2501138 A1</u>	20131016	GB20120015148	20120824
	<u>GB2501138 B2</u>	20140730	GB20120015148	20120824
	<u>GB2501140 A1</u>	20131016	GB20120018093	20121009
	<u>US2014131302 AA</u>	20140515	US20130859910	20130410
	<u>US2014224797 AA</u>	20140814	US20140256188	20140418

Probable Assignee: C CAP TECHNOLOGIES INC**Assignee(s):**^(std): CONNELL GIAMMATEO MATTHEW ; LACHAPPELLE CHAD ; LOVEGROVE DAVE ; MALONE TIMOTHY ; STANTON GERALD ; MALONEY TIMOTHY J ; TAMM INC**Assignee(s):** C CAP TECHNOLOGIES INC**Inventor(s):**^(std): LACHAPPELLE CHAD ; STANTON GERALD ; MALONEY TIMOTHY ; LOVEGROVE DAVE ; LACHAPPELLE CHAD ; CONNELL GIAMMATTEO MATTHEW**Inventor(s):** CHAD LACHAPPELLE ; GERALD STANTON ; DAVE LOVEGROVE ; MATTHEW CONNELL GIAMMATTEO ; TIMOTHY MALONEY**International class** B65D41/26 B65D47/28 B65D51/28 B65D81/32 (Advanced/Invention)
(IPC 8-9):**CPC:** B65D47/283 B65D51/2807 B65D81/3205 B65D51/2828 B65D51/285 B65D51/2857 B65D51/2892 B65D47/243 B65D51/2835**US class:** 215/257 220/212[Classification Explorer](#)**Cited documents:** WO11029731 A1, WO10041812 A1, WO05044670 A2, US7882976 BA, US6926138 BA, US6540070 BA, US6116445 A, US4898293 A, US2011290678 AA, US2008223485 AA, US2008135424 AA, US2006237095 AA, US2005150902 AA, US2002066677 AA,**Forward Citations:** WO16106436, WO16106433, US9708109,**Abstract:**

Source: US2014131302A A removable cap assembly 100, 200, 300 includes a first portion 102, 302 defining a central axis 101 and configured to removably interface with a container opposite a mating surface 110 of the first portion; a second portion 122, 322, adjacent to the mating surface, and comprising lateral sidewalls 124 and a top surface 128; and a lower sealing member 142, 252 opposite the top surface that, with the lateral sidewalls 124 and the top surface, define a compartment 150 within the second portion. The removable cap assembly is arranged such that at least one component of the second portion is movable linearly with respect to the central axis so as to breach the internal compartment.

Title: CONTAINER SEALING DEVICES**Priority:** CH19720014718 19721009

Family:	Publication number	Publication date	Application number	Application date
	CH546205 A	19740228	CH19720014718	19721009
	DE2349265 A1	19740425	DE19732349265	19731001
	DE2349265 B2	19780921	DE19732349265	19731001
	DE2349265 C3	19790607	DE19732349265	19731001
	FR2202029 A1	19740503	FR19730035969	19731009
	FR2202029 B1	19770311	FR19730035969	19731009
	GB1446049 A	19760811	GB19730046802	19731008
	IT996271 A	19751210	IT19730052958	19731005

Probable Assignee: OBRIST ALBERT AND CO**Assignee(s):^(std):** OBRIST AG ALBERT ; OBRIST ALBERT AG ; OBRIST ALBERT AND CO**Assignee(s):** OBRIST CO ALBERT ; OBRIST ET CO ALBERT CH ; OBRIST ET CO ALBERT ; ALBERT OBRIST AG REINACH BASEL SCHWEIZ ; ALBERT OBRIST AND CO ; ALBERT OBRIST REINACH BASEL SCHWEIZ AG ; OBRIST A UND CO**Inventor(s):^(std):** AICHINGER DIETMAR**Inventor(s):** AICHINGER DIETMAR REINACH SCHWEIZ**International class** [B65B7/28](#) [B65D41/32](#) [B65D41/34](#) [B67B3/064](#) [B67B3/20](#)
(IPC 1-7):**CPC:** [B67B3/2066](#) [B67B3/26](#)**European class:** [B67B3/20K](#) [B67B3/26](#)[Classification Explorer](#)**Cited documents:** US3262247 A, FR1347895 A,**Forward Citations:** US4196818, GB2143511, DE3144407,**Abstract:**

Source: GB1446049A 1446049 Socket spanners ALBERT OBRIST and CO 8 Oct 1973 [9 Oct 1972] 46802/73 Heading B3N [Also in Division B8] A device for sealing a container 5 by means of a screw-cap 3 comprises a rotatable tool 1 having engaging elements co-operating with a threaded portion 8 of the cap 3 during screwing of the cap, and engaging elements co-operating with elements on a safety ring 12 of the cap at least during radial spreading of the ring 12 over a projection 19 on the container which is caused by screwing. The cap 3 comprises a bottom 6 with depending jacket portion 8 having an internal thread 9 engaging a thread on the container. Depending from the jacket portion 8, and attached thereto by a weakened frangible portion 11 there is a safety ring 12 including an internal flexible nose 14 which engages a projection on the container. The external surfaces of the jacket portion 8 and the safety ring 12 are milled at 10 and 13 to provide engaging elements. The internal surfaces of a recess 2 in the tool 1 are also milled at 22 and 23 to provide co-operating engaging elements. A sealing element 7 depends from the bottom 6 of the cap and engages in the neck 4 of the container 5. In operation, the milled portion 22 engages the milled portion 10 of the jacket 8 to screw the cap on to the container. As the cap is screwed down the nose 14 is pushed radially outward over the projection on the container and the milled portions 23 and 13 co-operate to rotate the ring 12 with the jacket portion 8 and thereby prevent strain on the frangible portion 11. During unscrewing the ring 12 is prevented from rotating by co-operating projections and recesses on the inner surface of the ring and the container respectively.

259) Family number: 1551764 (US4209101A)

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Title: Tamper-proof closure and method of making same

Priority: CA19780310462 19780831 US19770833074 19770914

Family:

Publication number	Publication date	Application number	Application date
<u>CA1121760 A1</u>	19820413	CA19780310462	19780831
<u>US4209101 A</u>	19800624	US19770833074	19770914

Probable Assignee: SWEETHART CUP CO INC

Assignee(s):^(std): SWEETHEART PLASTICS

Assignee(s): SWEETHEART PROPERTIES INC ; SWEETHEART CUP CO INC ; UNITED STATES TRUST CO ; SWEETHART CUP CO INC ; SWEETHEART PLASTIC INC ; BANKAMERICA BUSINESSCREDIT INC ; BANKERS TRUST CO ; BROWN GAYLORD ; FORT HOWARD CUP CORP ; LILY TULIP INC ; MARYLAND CUP CORP

Inventor(s):^(std): BROWN GAYLORD

Agent(s): RIDOUT AND MAYBEE LLP

International class
(IPC 8-9): B65D41/34 (Advanced/Invention);
B65D41/34 (Core/Invention)

International class
(IPC 1-7): B65D41/32 B65D41/34

CPC: B65D41/3404 B65D2101/0038

European class: B65D41/34A L65D101/00A3C

US class: 215/218 215/253 215/341 215/348

[Classification Explorer](#)

Cited documents: US3899097 A, US3881623 A, US3866845 A, US3648874 A, US3612323 A, US3606063 A, US3482725 A, US3480170 A, US3399796 A, US3325035 A, US1214675 A, DE2543812 A1,

Forward Citations: US7438204, US5176271, US5111954, US4934547, US4881656, US4727998, US4566601, US4553678, US4393978, US4354610, US2012187126, US2007084885, JP2013082498,

Abstract:

Source: US4209101A A tamper-proof closure for a container including an endwall and an annular, threaded sidewall. The sidewall includes an internal projection for mating with a part of the container to prevent turning of the closure when the closure is mounted on said container. A tear tab is provided on the sidewall radially outwardly of the projection. The sidewall includes tear facilitating portions on circumferentially opposite sides of the tear tab to enhance tearing of the sidewall on opposite sides of the tear tab to permit the tear tab and the projection to be swung outwardly to a removed position in which the closure can be turned. Another aspect of the invention includes a method of making the closure.

0) US2171015A – BOTTLE CAP OR THE LIKE

260) Family number: 20914331 (US2171015A)

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Title: BOTTLE CAP OR THE LIKE

Priority: US19360061342 19360129

Family:	Publication number	Publication date	Application number	Application date
	<u>US2171015 A</u>	19390829	US19360061342	19360129

Probable Assignee: WHEELING STAMPING CO

Assignee(s):^(std): WHEELING STAMPING CO

Assignee(s): WHEELING STAMPING COMPANY

Inventor(s):^(std): WEBB CHARLES C

International class B65D41/04 (Advanced/Invention);
(IPC 8-9): B65D41/04 (Core/Invention)

International class B65D41/04
(IPC 1-7):

CPC: B65D41/04

European class: B65D41/04

US class: 215/318 215/329 220/288

[Classification Explorer](#)

Forward Citations: WO16015115, US9452863, US4877144, US4057160, US3919901, US3371808, US2963835, US2663212, US2643015, US2569073, US2560291, US2534295, US2431114, US2010084361,

Abstract:

Source: US2171015A 1. The combination with a receptacle having a threaded end portion, of a frangible plastic cap engaged over said threaded end, said cap having an internal diameter greater than the maximum exterior diameter of the threaded portion of the receptacle and having a plurality of inwardly extending button-like projections on the inner wall thereof cooperating with the thread of the receptacle, the length of the projections and the internal diameter of the 98,3 being so related as to enable the projections to be forced over top of the thread by allowing portions of the side walls of the cap intermediate the projections to yield radially inwardly sufficiently to allow said projections to snap over the threads without rupturing the cap, two of said projections being at diametrically opposite points.

261) Family number: 41733139 (WO08044907A1)

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Title: DEVICE FOR PREVENTING THE LID OF A FEEDING BOTTLE FROM BEING MISPLACED**Priority:** MX2006PA11708 20061010

Family:	Publication number	Publication date	Application number	Application date
	<u>WO08044907 A1</u>	20080417	WO2007MX00114	20071010

Probable Assignee: CONTRERAS OSTOS MANUEL**Assignee(s):^(std):** CONTRERAS OSTOS MANUEL**Inventor(s):^(std):** CONTRERAS OSTOS MANUEL**Agent(s):** CAMPILLO GOMEZ ROMAN

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class A61J9/08 B65D55/16 (Advanced/Invention)
(IPC 8-9):**CPC:** A61J9/00 A61J11/008[Classification Explorer](#)**Cited documents:** WO07091878 A1, WO07091877 A1, US6131755 A, US6123210 A, US5211299 A, US2957596 A, US2588275 A, US2011869 A, US1451822 A,**Forward Citations:** CN103622827,**Abstract:**

The invention relates to a device for preventing feeding bottles from being misplaced and for improving the hygienic dispensing conditions of same, consisting of several elements which can be added to a conventional feeding bottle or integrated during production, so as to form a sliding arm which permanently connects the lid to the body of the feeding bottle in order to prevent same from being misplaced and to reduce the possibility of the lid being contaminated when it is not being used to cover the teat.

Title:

Priority:

Family:

Probable Assignee:

Assignee(s):^(std):

Inventor(s):^(std):

International class
(IPC 8-9):

International class
(IPC 1-7):

CPC:

European class:

US class:

Classification Explorer

Cited documents:

Forward Citations:

BOTTLE

US19560570121 19560307

Publication number	Publication date	Application number	Application date
<u>US3013686 A</u>	19611219	US19560570121	19560307

BLUNT ROYDEN A

BLUNT ROYDEN A

BLUNT ROYDEN A

B65D1/02 (Advanced/Invention);
B65D1/02 (Core/Invention)

B65D1/02

B65D1/023 B65D2501/0081

B65D1/02D1 L65D501/02Y9

215/42

Classification Explorer

USD116860 S1, USD116349 S1, USD112532 S1, US2644599 A, US2024748 A,

WO9938782, WO0107348, USD785454, USD765510, USD765509, USD723924, US6230913, US6142326, US5158190, US5056674, US4254883, US3478913, US3404795, US3235111, DE2600964.

Abstract:

Source: US3013686A (Claim 1) cordance with the present invention can be accomplished In the above described cream chamber type of bottle, for the cost of one hundred pounds of freight so that as in the previously described bottles, the upwardly and with a prevailing freight rate of fifty cents per hundred inwardly inclined inner surface of the wall portions 136, weight, a gross of these packed bottles can be shipped 136a facilitate pouring of the contents, eliminating interior twenty cents. With the above specific examples, the 25 nal angular corners, and facilitate the egress of foam dur—substantial savings are apparent when considering a ten ing filling operations and the like, ton truck carrying five hundred gross on a single load. This application is a continuation—in—part of my appli—Insofar as the manufacture of these bottles of reduced cation Serial No.

263) Family number: 28831885 (US4871092A)

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Title: Atomizing or metering pump

Priority: DE19823225910 19820710 DE19833374920 19830519 EP19830104927 19830519
 US19880253400 19881003 US19860899414 19860822 US19830511103 19830706

Family:	Publication number	Publication date	Application number	Application date
	<u>AT31391 E</u>	19880115	AT19830104927T	19830519
	<u>DE3225910 A1</u>	19840112	DE19823225910	19820710
	<u>DE3374920 D1</u>	19880128	DE19833374920	19830519
	<u>EP0098939 A2</u>	19840125	EP19830104927	19830519
	<u>EP0098939 A3</u>	19841219	EP19830104927	19830519
	<u>EP0098939 B1</u>	19871216	EP19830104927	19830519
	<u>ES281198 U</u>	19851016	ES19830281198U	19830609
	<u>ES281198 Y</u>	19851116	ES19830281198U	19830609
	<u>ES281198 Y1</u>	19860616	ES19830281198U	19830609
	<u>US4871092 A</u>	19891003	US19880253400	19881003

Probable Assignee: PFEIFFER ERICH GMBH AND CO KG**Assignee(s):^(std):** PFEIFFER ERICH GMBH AND CO KG ; PFEIFFER ZERSTAEUBER**Assignee(s):** PFEIFFER ZERSTAEUBER VERTRIEBSGESELLSCHAFT MBH AND ; PFEIFFER ZERSTAEUBER VERTRIEBSGESELLSCHAFT MBH AND CO KG ; ING ERICH PFEIFFER GMBH ; ING ERICH PFEIFFER GMBH AND CO ; ING ERICH PFEIFFER GMBH AND CO KG**Inventor(s):^(std):** MARTE LEO ; MAERTE LEO**Designated states:** AT BE CH DE FR GB IT LI NL SE

International class B05B11/00 F04B9/14 (Advanced/Invention);
 (IPC 8-9): B05B11/00 F04B9/00 (Core/Invention)

International class B05B11/00 B05B9/04 B65D83/14 F04B9/14 G01F11/06
 (IPC 1-7):

CPC: B05B11/3008 B05B11/3059 B05B11/306**European class:** B05B11/00P9J B05B11/00P9J2 B05B11/30C3D B05B11/30H4 B05B11/30H4B**US class:** 222/153 222/153.13 222/309 222/321.6 222/41[Classification Explorer](#)**Cited documents:** US4589573 A, US4454964 A, US4433799 A, US4369899 A, US4288006 A, US4273257 A, US4185755 A, US4162746 A, US3863816 A, US3709994 A, US3608791 A, US3484023 A, US3422996 A, FR2300916 A1, FR1316511 A, DE7901055 U, DE1907891 A1,

Forward Citations: WO9816322, WO8702976, WO14128007, WO12001374, WO07031614, WO06032506, WO0066981, USH2101, USH2044, USD456292, USD439534, US9656032, US9649455, US9433960, US9346068, US9265901, US9242057, US9237793, US9211559, US9199258, US9168343, US9032953, US9010584, US8973784, US8944285, US8939323, US8869735, US8662075, US8596265, US8578934, US8556130, US8528795, US8505773, US8327847, US8181591, US8157128, US8141550, US8109414, US8082873, US8079362, US8074643, US8074594, US7984826, US7891526, US7886934, US7854353, US7757688, US7743945, US7650883, US7621273, US7597102, US7584712, US7575130, US7568481, US7543582, US7516738, US7341057, US7306116, US7100530, US7004164, US6997349, US6953039, US6938796, US6926002, US6745760, US6729330, US6561384, US6443331, US6435372, US6427684, US6405903, US6401987, US6394317, US6364170, US6336453, US6330960, US6328037, US6253961, US6164498, US6161724, US6142339, US6083528, US6082588, US6082358, US6073814, US5947335, US5922349, US5897539, US5878916, US5850948, US5791518, US5669530, US5516006, US5497915, US5433343, US5427280, US5411181,

US5405057, US5363992, US5339990, US5335823, US5289946, US5277334,
US5243970, US5228586, US4944429, US2017065055, US2015076174, US2013074983,
US2012160872, US2010084433, US2008041894, US2006083839, US2005281929,
US2005072808, US2003100867, JP5696023, JP2013095443, GB2308586, GB2308586,
GB2238088, FR2753957, FR2658486, FR2573819, EP2364785, EP2216261,
EP2174720, EP0845100, EP0636421, EP0553546, DE4441263, DE4438375,
DE4303157, DE4027672, DE4027670, DE4027669, DE4008068, DE3530611,
DE19714275, DE102009008022, DE102009008022, DE102004046768, DE10159692,
DE10015968, CN106347838, CN105457783, CN102958617, CN102958617,

Abstract:

Source: US4871092A A dispensing pump means has an operating pusher for effecting a pump stroke and a control means for selectively varying the length of stroke. The control includes a neck on a base for receiving the operating pusher, cooperating grooves and abutment shoulders guiding the pusher and setting its maximum stroke. At least one projection positively slides in a selected one of a plurality of grooves of different lengths, the projection being positioned out of the grooves and in front of the ends of the grooves in an initial position of the pump, i.e., prior to the pump stroke. Axially preceding the ends of the grooves, an arched path extends around the pump axis and guides the projection during manual rotation of the operation pusher as the projection is positioned over the selected groove.

264) Family number: 37010083 (GB191203803A)

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Title: Improvements in Stoppering Devices for Bottles.**Priority:** 19120215

Family:	Publication number	Publication date	Application number	Application date
	<u>GB191203803 A</u>	19120620		00000000

Probable Assignee: MARWOOD FREDERICK THOMAS**Assignee(s):^(std):** MARWOOD FREDERICK THOMAS**Assignee(s):** FREDERICK THOMAS MARWOOD**Inventor(s):^(std):** MARWOOD FREDERICK THOMAS**Inventor(s):** FREDERICK THOMAS MARWOOD

International class B65D41/28 (Advanced/Invention);
 (IPC 8-9): B65D41/02 (Core/Invention)

CPC: B65D41/28**European class:** B65D41/28[Classification Explorer](#)**Forward Citations:** US2801017,**Abstract:**

Source: GB191203803A (Claim 1) 1. A bottle stoppering device comprising a metal cap adapted to be secured to the bottle neck and provided with an internal parallel or tapered flange occupying a position outside the bottle neck when the cap is secured in place thereon, the said flange having a rounded outer edge and grooved, serrated or corrugated internal surfaces extending wholly or partly throughout the length of the flange for the purpose specified.

Title: EMBALAJE TRANSPORTADOR Y EXPOSITOR PARA UNA BOTELLA TRANSPORTING AND EXPOSITORY PACKING FOR A BOTTLE (Machine translation)

Priority: ES19830275340U 19831028

Family:	Publication number	Publication date	Application number	Application date
	<u>ES275340 U</u>	19840701	ES19830275340U	19831028
	<u>ES275340 Y</u>	19850201	ES19830275340U	19831028
	<u>ES275340 Y1</u>	19850329	ES19830275340U	19831028

Probable Assignee: SELLARES VALLS FELIX

Assignee(s): DACHS ROIG ENRIQUE ; SELLARES VALLS FELIX

International class A47F5/00 B65D77/00 (Advanced/Invention);
(IPC 8-9); A47F5/00 B65D77/00 (Core/Invention)

International class A47F5/00 B65D77/00
(IPC 1-7);

[Classification Explorer](#)

Abstract:

Source: ES275340U 1. Embalaje transportador y expositor para una botella, caracterizado esencialmente por constituir un cuerpo ortoedrico de base cuadrada y con dos caras verticales abiertas permitiendo la completa visibilidad de la botella contenida, estando constituido a base de una pieza unica de un material laminar, troquelado para definir multiples zonas en simetria limitadas por lineas de doblado, resultando de las mismas una base de apoyo para la botella, dos caras verticales cerradas y otras dos, paralelas entre si, abiertas, prolongandose las primeras en sendas zonas cuadrangulares cuya yuxtaposicion definira la base superior del cuerpo primatico, con una hendidura transversal destinada al paso de dos solapas provistas de sendas aberturas definiendo las asas de manejo. 2. Embalaje transportador y expositor para una botella, segun la reivindicacion anterior, caracterizado por la derivacion, lateralmente a las caras laterales completas, de sendas solapas longitudinales destinadas a quedar yuxtapuestascon aquellas en sus superficies internas, derivandose a su vez en solapas de forma complementaria a la del cuello y cabecera de la botella, en orden a la retencion de esta por los bordes conformados de los dos pares de salientes internos. 3. Embalaje transportador y expositor para una botella, segun las reivindicaciones anteriores, caracterizado porque la retencion de la base de la botella queda asegurada mediante un par de solapas de forma trapecial, derivadas y lateralmente de la base inferior de la caja ortoedrica y prolongados por sus lados en sendos pares de zonas triangulares, que permiten la flexion de aquellas solapas y su diposicion en torno a la base de la botella retenida. 4. Embalaje transportador y expositor para una botella.

Machine translation: 1. Transporting and expository packing for a bottle, characterized essentially to constitute a ortoedrico body of square base and with two opened vertical faces allowing the complete visibility of the contained bottle, being constituted with a unique piece of a laminar material, being troquelado to define multiple zones in symmetry limited by line of dubbing, being from same a base of support for the bottle, two vertical faces closed and other two, parallel ones to each other, opened, extending the first in individual quadrangular zones whose juxtaposition definira the superior base of the primatico body, with a cross-sectional crack destined to the passage of two lapels provided with individual openings defining the handling handles. 2. Transporting and expository packing for a bottle, according to the previous vindication, characterized by the derivation, laterally to the complete lateral faces, of individual longitudinal lapels destined to be left yuxtapuestascon those in its internal surfaces, deriving as well in lapels from complementary form to the one from the neck and head from the bottle, in sequence to the retention of this by the edges conformed of both even of internal projections. 3. Transporting and expository packing for a bottle, according to the previous vindications, characterized because the retention of the base of the bottle is assured by means of a pair lapels of tapered form, derived and laterally from the inferior base of the box ortoedrica and prolonged by its sides in individual pairs of triangular zones, that allow to the flexion of those lapels and his diposicion around the base of the retained bottle. 4. Transporting and expository packing for a bottle.

Title: BIOACTIVE PACKAGES AND PACKAGE CLOSURES
Priority: FR20050000803 20050126 WO2006FR00146 20060123
Family:

Publication number	Publication date	Application number	Application date
AU2006208823 AA	20060803	AU20060208823	20060123
AU2006208823 BB	20120119	AU20060208823	20060123
CA2595963 AA	20070726	CA20062595963	20060123
EP1841663 A1	20071010	EP20060709148	20060123
FR2881115 A1	20060728	FR20050000803	20050126
FR2881115 B1	20081031	FR20050000803	20050126
US2008169217 AA	20080717	US20060883047	20060123
WO06079708 A1	20060803	WO2006FR00146	20060123

Probable Assignee: CALONE BONNEAU MARGUERITE GABR

Assignee(s):^(std): BONNEAU CALONE MARGARET ; BONNEAU MARC ; BONNEAU MARGARET CALONE ; CALONE BONNEAU MARGARET ; CALONE BONNEAU MARGUERITE GABR ; CALONE BONNEAU MARGUERITE GABRIELLE

Assignee(s): MARC BONNEAU ; MARGARET CALONE BONNEAU

Inventor(s):^(std): BONNEAU MARGARET CALONE ; CALONE BONNEAU MARGARET ; CALONE BONNEAU MARGUERITE GABRIELLE ; CALONE BONNEAU MARGUERITE GABR ; BONNEAU MARC ; BONNEAU CALONE MARGARET

Inventor(s): MARC BONNEAU ; MARGARET CALONE BONNEAU

Agent(s): AHEARN FOX; GOUDREAU GAGE DUBUC; YOUNG AND THOMPSON

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

International class
 (IPC 8-9): [B65D39/00](#) [B65D51/24](#) [B65D51/28](#) [B65D51/30](#) [B65D81/28](#) [B65D85/00](#) (Advanced/Invention);
[B65D39/00](#) [B65D51/24](#) [B65D81/28](#) [B65D85/00](#) (Core/Invention)

CPC: [B65D51/24](#) [B65D51/28](#)

European class: [B65D51/24](#) [B65D51/28](#)

US class: [206/524.6](#) [206/524.600P](#) [215/364](#) [215/364S](#)

[Classification Explorer](#)

Cited documents: WO0168470 A1, WO0053508 A1, US6511726 BA, US6170654 BA, US6165523 A, US5256405 A, US5004118 A, US4350508 A, US2362796 A, US2003123919 AA, FR2812620 A1, EP1384682 A2, EP1136015 A1, EP0763477 A1,

Forward Citations: WO13092022, WO13092021, US2012207876, US2010264142, CN106219049, CN104859939, CN104859939,

Abstract:

Source: US2008169217A The invention relates to an active package and/or an active package closure having different formats, made of metal and/or synthetic and/or natural associated or not materials. According to said invention, at least one element and/or component of said packages contains and distributes one or several dietary additives and complements and/or ingredients and technological auxiliaries used for producing foods and cosmetics. The inventive bioactive packages and closures are provided with novel specific functions such as additive and/or technical and/or antimicrobial functions with respect to a packed product. Said bioactive packages and closures confer to packed products sanitary, organoleptic and nutritional characteristics and are used for controllingly preserving the products during packaging, storage, transportation and distribution thereof.

0) US3845872A – CONTAINERS AND SAFETY CLOSURE THEREFOR

267) Family number: 1045632 (US3845872A)

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Title: CONTAINERS AND SAFETY CLOSURE THEREFOR

Priority: JP19730065975 19730613 US19720262419 19720613 US19730262419 19730409
US19730349302 19730409

Family:

Publication number	Publication date	Application number	Application date
<u>AR200652 A1</u>	19741129	AR19730248675	19730622
<u>AT329997 B</u>	19760610	AT19730005195	19730613
<u>AT519573 A</u>	19750815	AT19730005195	19730613
<u>AU197356627 A1</u>	19741212	AU19730056627	19730607
<u>BE800853 A</u>	19731001	BE19730132216	19730613
<u>BE800853 A1</u>	19731001	BE19730132216	19730613
<u>BR7300187 A0</u>	19740905	BR19730000187	19730110
<u>BR7304424 A0</u>	19740905	BR19730004424	19730613
<u>CA1002484 A1</u>	19761228	CA19730172833	19730531
<u>CH574851 A</u>	19760430	CH19730008484	19730612
<u>DE2329682 A1</u>	19731220	DE19732329682	19730609
DE2329682 B2	19800911	DE19732329682	19730609
<u>DE2329682 C3</u>	19810507	DE19732329682	19730609
<u>DK134978 B</u>	19770221	DK19730003251	19730612
<u>DK134978 C</u>	19770718	DK19730003251	19730612
<u>FI55478 B</u>	19790430	FI19730001912	19730613
<u>FI55478 C</u>	19790810	FI19730001912	19730613
<u>FR2187631 A1</u>	19740118	FR19730021181	19730612
<u>FR2187631 B1</u>	19770909	FR19730021181	19730612
<u>GB1431498 A</u>	19760407	GB19730028100	19730613
<u>IE37792 B</u>	19771012	IE19730000968	19730612
<u>IE37792 L</u>	19731213	IE19730000968	19730612
<u>IN140462 A</u>	19761113	IN1973CA01390	19730613
<u>IT988985 A</u>	19750430	IT19730025134	19730612
<u>JP49049785 A2</u>	19740514	JP19730065975	19730613
<u>JP57005743 B4</u>	19820201	JP19730065975Q	19730613
<u>NL173152 B</u>	19830718	NL19730008232	19730613
NL173152 C	19831216	NL19730008232	19730613
<u>NL7308232 A</u>	19731217	NL19730008232	19730613
<u>NO137003 B</u>	19770905	NO19730002451	19730612
<u>NO137003 C</u>	19771214	NO19730002451	19730612
<u>US3845872 A</u>	19741105	US19730349302	19730409
<u>ZA7303614 A</u>	19740424	ZA19730003614	19730528

Probable Assignee: PLASTITAL IND E COMERCIO DE PL

Assignee(s):^(std): BRINDISI ANTHONY T ; EDWARD JOHNSON TOWNS AND ASSOC ; TOWNS AND ASS EDWARD JOHNSON ; TOWNS E ; TOWNS E J ; JOHNSON TOWNS ASS EDWARD ; JOHNSON TOWNS AND ASSOCIATES EDW ; PLASTITAL IND E COMERCIO DE PL ; BRINDISI A ; BRINDISI A T ; TOWNS E AND ASSOCIATES ; TOWNS EDWARD J ; TOWNS EDWARD JOHNSON AND ASSOC ; TOWNS E AND ASS

Assignee(s): EDWARD JOHNSON TOWNS AND ASSOCIATES NORMANDY HEIGHTS ROAD CONVENT STATION NEW JERSEY E U A ; EDWARD JOHNSON TOWNS AND ASSOCIATES NORMANDY HEIGHTS ROAD CONVENT STATION NEW JERSEY EUA ;

TOWNS E US ; TOWNS EDWARD JOHNSON AND ASSOCIATES ; TOWNS EJ AND BRINDISI AT ; EDWARD JOHNSON TOWNS AND ASSOCIATES TE NEW YORK ; BRINDISI A US ; JOHNSON TOWNS ASSOCIATES EDWARD ; JOHNSON TOWNS ASSOCIATES EDWARD US ; TOWNS E J AND BRINDISI A T ; JOHNSON TOWNS AND ASSOCIATES EDWARD ; TOWNS AND ASSOCIATES ; EDWARD JOHNSON TOWNS AND ASSOCIATES NORMANDY HEI ; PLASTITAL INDUSTRIA E COMERCIO DE PLASTICOS LTD ; EDWARD JOHNSON TOWNS AND ASSOCIATES ; EDWARD JOHNSON TOWNS AND ASSOCIATES NEW YORK N Y ; EDWARD JOHNSON TOWNS AND ASSOCIATES NEW YORK N Y US ; EDWARD JOHNSON TOWNS AND ASSOCIATES NEW YORK N Y V ST A

Inventor(s):^(std): BRINDISI ANTHONY T ; BRINDISI ANTHONY THOMAS ; BRINDISI A ; BRINDISI A T ; MONTINI P ; TOWNS E ; TOWNS E J ; TOWNS EDWARD J ; TOWNS EDWARD JOHNSON

Inventor(s): TOWNS EDWARD JOHNSON CONVENT STATION ; TOWNS EDWARD JOHNSON CONVENT STATION N J ; TOWNS E US ; BRINDISI A US ; A T BRINDISI ; ANTHONY THOMAS BRINDISI ; AT BRINDISI ; BRINDISI ANTHONY THOMAS FAIRFIELD ; BRINDISI ANTHONY THOMAS FAIRFIELD N J ; BRINDISI ANTHONY THOMAS FAIRFIELD N J V ST A ; E J TOWNS ; EDWARD JOHNSON TOWNS ; EJ TOWNS

International class
(IPC 8-9): B65D41/32 B65D41/48 B65D47/08 B65D50/06 B65D55/02 (Advanced/Invention);
B65D41/32 B65D47/08 B65D50/00 B65D55/02 (Core/Invention)

International class
(IPC 1-7): A61J1/00 B65D1/02 B65D23/00 B65D41/04 B65D41/18 B65D41/48 B65D41/58 B65D47/04 B65D47/08 B65D48/08 B65D51/18 B65D51/24 B65D55/02 B65D55/06 B65D83/06 B65D85/82 B67B7/10

CPC: B65D50/069

European class: B65D50/06H4

US class: 215/224 215/295 215/317 215/9 220/281 222/541.9

[Classification Explorer](#)

Cited documents: US3604585 A, US3604583 A, US3398847 A, JP47043236 A2, GB1150612 A, DE2024385 A1, DE1921695 A1,

Forward Citations: WO9821113, WO12004667, USD537724, USD529387, USD523344, USD520877, USD474402, USD467801, USD466408, USD464886, USD464567, USD462613, USD456713, USD448668, USD448296, US9010560, US8627977, US8556137, US8292111, US8292101, US8066139, US7946447, US7870967, US7861873, US7823736, US7370773, US6866164, US6763945, US6742666, US6732873, US6460726, US6152320, US5927535, US5860543, US5752612, US5549214, US5285917, US5145085, US4805790, US4641662, US4607768, US4526291, US4462507, US4358032, US4047495, US4000839, US3997104, US3927805, US2011095023, US2010314391, US2010193522, US2010137777, US2009101647, US2008116163, US2007221605, US2006219652, US2006138145, US2004089668, US2003159965, GB2307229, DE3345565, DE19641495, DE19641495, AT397951,

Abstract:

Source: US3845872A An improved safety closure for containers with harmful contents includes a member carrying an integral tab hingedly connected at one edge for swinging from a shut position in which it is flush-mounted within a close-fitting recess in the member to an open, grasping position. The depth of the recess is greater than the thickness of the tab, and a fulcrum means, spaced from the hinged edge, supports the tab flush with the surface of the member. Tongue and groove interengagement means secures the tab in a closed position. Inward force of at least four pounds must be applied to the tab between the fulcrum and the hinged edge to release the tongue and groove interengagement means and cause the tab to deflect and thus pivot about the fulcrum, the tab thereby obtaining a partially upright position, determined by the memory of the plastic in the hinge, above the surface of the member to facilitate grasping thereof. Preferred embodiments of the safety closure incorporate the tab-carrying member in combination with a depending skirt to form a snap cap or a stopper for bottles, with an adapter insert to form a recessed closure for box containers, and with a locking overcap for pressurized spray cans.

0) US5328061A – SLIDING DISPENSING CAP AND DISPENSING STOPPER

268) Family number: 11627536 (US5328061A)

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Title: Sliding dispensing cap and dispensing stopper

Priority: US19920978406 19921118

Family:	Publication number	Publication date	Application number	Application date
	<u>US5328061 A</u>	19940712	US19920978406	19921118

Probable Assignee: LIBIT JEFFREY M

Assignee(s):^(std): LIBIT JEFFREY M

Inventor(s):^(std): LIBIT JEFFREY M ; LIBIT SIDNEY

International class
(IPC 8-9): B65D47/28 (Advanced/Invention);
B65D47/04 (Core/Invention)

International class
(IPC 1-7): B65D37/00

CPC: B65D47/286

European class: B65D47/28D

US class: 222/212 222/479 222/482 222/484 222/532

[Classification Explorer](#)

Cited documents: US5115949 A, US5115946 A, US5114051 A, US5110051 A, US5054634 A, US5048750 A, US5033654 A, US4600130 A, US4429815 A, US4408703 A, JP1009168 A2,

Forward Citations: WO9622152, US6398133, US6135358, US5927565, US2005029276, ES2613281, EP0875460,

Abstract:

Source: US5328061A A slide dispensing cap and dispensing stopper for a dispensing bottle which includes a one-way valve between the interior of the bottle and the cap so that air cannot enter into the bottle when product is dispensed through a tube because the valve closes to prevent product from passing through the one-way valve. A tube communicates with the stopper and in a dispensing position of the slide nozzle so that product can pass out through the nozzle. After dispensing the bottle is released and air can enter the bottle through the one-way valve.

0) GB247483A – AN IMPROVED STOPPER FOR BOTTLES

269) Family number: 18210045 (GB247483A)

© PatBase

Title: An improved stopper for bottles

Priority: GB19250022186 19250905

Family:	Publication number	Publication date	Application number	Application date
	GB247483 A	19260218	GB19250022186	19250905

Probable Assignee: ERNEST LUNN

Assignee(s):^(std): ERNEST LUNN ; JOHN LUNN

International class
(IPC 8-9): [B60T1/06 B65D39/08 B65D41/02](#) (Advanced/Invention);
[B60T1/00 B65D39/00 B65D41/02](#) (Core/Invention)

International class
(IPC 1-7): [B60T1/06 B65D39/16](#)

CPC: [B60T1/06 B65D39/08 B65D41/023](#)

European class: [B60T1/06 B65D39/08 B65D41/02B](#)

[Classification Explorer](#)

Forward Citations: CN104475418,

Abstract:

Source: GB247483A Drawings to Specification. Cap–stoppers, screw; plain plug stoppers; plug and screw stoppers formed to aid withdrawal. In a bottle stopper having a rigid flange or skirt depending from its top portion, the skirt is formed with a cylindrical external surface and a conical internal surface of such diameter as to leave a small clearance between it and the bottle neck, the skirt being deep enough to cover the portion of the neck to which matter is likely to adhere. The invention is applicable to screw or plain plug stoppers. Specifications 12897/86, 17277/89, and 3873/02 are referred to.

270) Family number: 18657580 (GB330180A)

© PatBase

Title: Improvements in the manufacture of re–seal closure devices for bottles and the like containers**Priority:** GB19290023240 19290729

Family:	Publication number	Publication date	Application number	Application date
	<u>GB330180 A</u>	19300605	GB19290023240	19290729

Probable Assignee: STANLEY FOLLETT LUGET**Assignee(s)^{:(std)}:** STANLEY FOLLETT LUGET ; WELLCOME FOUND**Assignee(s):** WELLCOME FOUNDATION LTD ; THE WELLCOME FOUNDATION LIMITED

International class B65D41/04 B65D45/32 (Advanced/Invention);
 (IPC 8–9): B65D41/04 B65D45/00 (Core/Invention)

International class B65D45/30
 (IPC 1–7):

CPC: B65D41/04 B65D45/32**European class:** B65D41/04 B65D45/32[Classification Explorer](#)**Abstract:**

Source: GB330180A Cap–stoppers, bayonetjoint.–The cover of a jar and c. having internal projections is locked in place with an internal gasket compressed on the rim of the vessel, by a ring, in the usual way. The internal projections are accommodated in lateral extensions D of bayonet slots C when the locking ring is in position. When the ring is removed the cover can be used again by turning the projections into engagement with the slots C.

0) US2351138A – NONREFILLABLE BOTTLE

271) Family number: 22259617 (US2351138A)

© PatBase

Title: NONREFILLABLE BOTTLE

Priority: US19400352037 19400802

Family:	Publication number	Publication date	Application number	Application date
	<u>US2351138 A</u>	19440613	US19400352037	19400802

Probable Assignee: LUECK FRANK R

Assignee(s):^(std): LUECK FRANK R

Inventor(s):^(std): LUECK FRANK R

International class
(IPC 8-9): B65D49/06 (Advanced/Invention);
B65D49/00 (Core/Invention)

International class
(IPC 1-7): B65D49/04

CPC: B65D49/06

European class: B65D49/06

US class: 215/22 222/500

[Classification Explorer](#)

Forward Citations: US3933284, US3372845, US2626723, US2598024, US2497599, US2483784,

Abstract:

Source: US2351138A 1. An attachment for rendering bottlesnonrefillable. said attachment comprising a. ported housing for application to'a bottle outlet, a buoy- 'ant valve moveable in said housing for controlling the flow of iiuid through said outlet, axially spaced means at opposite ends of said valve hav. ing a. minimum area of contact with said housing for supporting and centering the same within said housing and spaced from the side walls of the latter to thereby permit free flow therebetween, and means within said housing for maintaining a. closing pressure against said valve except when said bottle is inclined downwardly into or below

Title: BOTTLE STOPPER**Priority:** CA19840446433 19840131 ES19830273813U 19830729

Family:	Publication number	Publication date	Application number	Application date
	AU198424562 A1	19850131	AU19840024562	19840214
	AU558605 B2	19870205	AU19840024562	19840214
	CA1239903 A1	19880802	CA19840446433	19840131
	ES273813 U	19831216	ES19830273813U	19830729
	ES273813 Y	19840701	ES19830273813U	19830729
	ES273813 Y1	19840712	ES19830273813U	19830729
	FR2549806 A1	19850201	FR19840002388	19840217
	FR2549806 B1	19870925	FR19840002388	19840217
	IT1175347 A	19870701	IT19840019563	19840210
	IT8419563 A0	19840210	IT19840019563	19840210
	US4527705 A	19850709	US19840579575	19840213

Probable Assignee: VEM TAPAS METALICAS SA**Assignee(s):**^(std) VEM DE TAPAS METALICAS S A ; VEM DE TAPAS METALICAS SA ; VEM TAPAS METALICAS SA**Assignee(s):** PRADES JOSE FORT**Inventor(s):**^(std) JOSE FORT PRADES ; PRADES JOSE F ; PRADES JOSE FORT**Agent(s):** BERESKIN AND PARR**International class**
^{(IPC 8-9):} [B65D41/34](#) (Advanced/Invention);
[B65D41/34](#) (Core/Invention)**International class**
^{(IPC 1-7):} [B65D39/08](#) [B65D41/04](#) [B65D41/08](#) [B65D41/34](#) [B65D53/06](#)**CPC:** [B65D41/3447](#)**European class:** [B65D41/34D1](#)**US class:** [215/252](#) [215/341](#)[Classification Explorer](#)**Cited documents:** US4346811 A, US4331249 A, US4244481 A, US3944103 A, US2068389 A, GB2092999 A1, GB2022063 A1, GB1327583 A, GB1084564 A, FR851275 A, FR2457813 A1, BE753094 A, AU47374 A1,**Forward Citations:** WO9418085, WO9203350, US9650179, US8650839, US8251236, US8100277, US7798359, US7780024, US7766178, US7644902, US7168581, US6877624, US5775526, US5657889, US5402901, US5137164, US5064084, US4984701, US4968514, US4938371, US4793498, US4775064, US4744479, US4721221, US4700860, US2015016755, US2008251491, US2005167879, US2004055992, GB2195623, FR2706426, EP0244049, EP0244049, EP0244049, EP0228618,**Abstract:**

Source: US4527705A A bottle stopper having a cap shaped body of substantially rigid plastics material and a seal applied to the body bottom edge region and the side wall region adjacent said bottom, the bottom being provided with a concentric inwardly extending rib and a plurality of recesses between the rib and the said wall, while the side wall is internally provided with an annular flange close to the bottom and a plurality of hollows between the flange and the bottom. The seal is disposed between said rib and said flange and fills said recesses and hollows.

273) Family number: 30091158 (US2005208244A)

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Title: METHOD AND DEVICE FOR PRODUCTION OF A BOTTLE STOPPER FROM POLYMERS

Priority: FR20020007352 20020612 FR20020007352 20020614 WO2003FR01762 20030612

Family:	Publication number	Publication date	Application number	Application date
	AU2003255667 AA	20031231	AU20030255667	20030612
	AU2003255667 AH	20031231	AU20030255667	20030612
	EP1515899 A2	20050323	EP20030760016	20030612
	FR2840846 A1	20031219	FR20020007352	20020614
	FR2840846 B1	20050603	FR20020007352	20020614
	US2005208244 AA	20050922	US20040517811	20041214
	WO03106285 A2	20031224	WO2003FR01762	20030612
	WO03106285 A3	20040415	WO2003FR01762	20030612
	WO03106285 C1	20050217	WO2003FR01762	20030612

Probable Assignee: CQFD**Assignee(s):**^(std): C Q F D ; DELMAS PIERRE ANDRE**Assignee(s):** CQFD**Inventor(s):**^(std): DELMAS PIERRE ANDRE ; PIERRE ANDRE DELMAS**Agent(s):** AQUINOV; YOUNG AND THOMPSON

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU 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

International class
(IPC 8-9): [B29C44/50](#) [B29C47/04](#) [B65D39/00](#) (Advanced/Invention);
[B29C44/34](#) [B29C47/04](#) [B65D39/00](#) (Core/Invention)

International class
(IPC 1-7): [B29C44/52](#) [B29C47/04](#) [B29C47/08](#) [B29C47/88](#) [B29D22/00](#) [B29K105/00](#) [B29K105/00](#)
[B29K105/04](#) [B29L31/00](#) [B29L31/00](#) [B29L31/56](#) [B32B3/26](#) [B65D39/00](#)

CPC: [Y10T428/1376](#) [B29C47/046](#) [B29C44/50](#) [B29C47/0016](#) [B65D39/0011](#) [Y10T428/249953](#)
[Y10T428/249977](#)

European class: [B29C44/50](#) [B29C47/04A2](#) [B65D39/00F1](#)

US class: [215/355](#) [215/355S](#) [428/304.4](#) [428/304.400S](#) [428/314.8](#) [428/314.800S](#) [428/36.5](#)
[428/36.500P](#)

[Classification Explorer](#)

Cited documents: WO0026103 A1, US6355320 BA, US4188457 A, US2002010225 AA, US2002008076 AA, GB1299598 A, DE19544858 A1,

Forward Citations: US9688040, US2013118924, CN104044806, CN104044806,

Abstract:

Source: US2005208244A The object of the invention is a process for production of a bottle stopper, particularly for wine bottles, from polymers, characterized in that it comprises the following series of steps: a) homogenizing and/or mixing a single polymer material based on at least VAE (vinyl acetate ester), by bringing it to temperature, in an extruder comprising a single casing and one screw as well as an outlet nozzle, b) injecting at least one gas under pressure into this single material, c) shaping the material through the nozzle of said extruder in the form of an extrusion of predetermined diameter, and d) cutting of said extrusion to form stoppers of this same diameter. The invention also covers the associated device.

0) US3469725A – SAFETY CONTAINER CLOSURE

274) Family number: 883312 (US3469725A)

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Title: SAFETY CONTAINER CLOSURE

Priority: US19670659130 19670808

Family:	Publication number	Publication date	Application number	Application date
	<u>US3469725 A</u>	19690930	US19670659130	19670808

Probable Assignee: BASIC PRODUCTS DEV CO

Assignee(s):^(std): BASIC PRODUCTS DEV CO

Assignee(s): BASIC PRODUCTS DEV CO THE

Inventor(s):^(std): TURNER LLOYD S

Inventor(s): LLOYD S TURNER

International class
(IPC 8-9): B65D50/06 (Advanced/Invention);
B65D50/00 (Core/Invention)

International class
(IPC 1-7): A61J1/00 B65D45/16 B65D55/02 B65D55/12

CPC: B65D50/065

European class: B65D50/06D

US class: 215/225 215/9 222/543 D9/446

[Classification Explorer](#)

Cited documents: US3407956 A, US3151758 A, US3145872 A, US2814405 A,

Forward Citations: USD419369, US9102449, US8453873, US6360909, US6095354, US5593054, US5209362, US4512485, US4385706, US4260067, US3905502, US3832738, US3811589, US3765578, US3735889, US3690522, US3680731, US2015129531, DE3222738, DE3102524, DE2813940, DE2350973,

Abstract:

Source: US3469725A ABSTRACT OF THE DISCLOSURE A safety closure for a bottle or like container includes a pliable cap and an outer retainer ring which normally holds the cap compressed over the bottle. Mating grooves and shoulders between the bottle and the cap secure the cap to the bottle until the retainer ring or collar is depressed, to permit expansion of the cap

275) Family number: 15415518 (US6230944B)

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Title: Adjustable pouring device with sealing cap**Priority:** US19970947787 19971009

Family:	Publication number	Publication date	Application number	Application date
	<u>US6230944 BA</u>	20010515	US19970947787	19971009

Probable Assignee: CASTELLANO JAMES ANTHONY**Assignee(s):** CASTELLANO JAMES ANTHONY ; LOS OLEG ; SCHWARTZ DONALD BRIAN**Inventor(s):^(std):** SCHWARTZ DONALD BRIAN ; LOS OLEG ; CASTELLANO JAMES ANTHONY

International class B65D47/24 (Advanced/Invention);
 (IPC 8-9): B65D47/04 (Core/Invention)

International class B67D3/00
 (IPC 1-7):

CPC: B65D47/243**European class:** B65D47/24A2**US class:** 222/481.5 222/484 222/520 222/569[Classification Explorer](#)

Cited documents: US880669 A, US5402920 A, US5211318 A, US5110017 A, US500260 A, US4979655 A, US4398652 A, US3966099 A, US3834596 A, US3630419 A, US3422998 A, US3235133 A, US3209963 A, US3121519 A, US2828054 A, US2825495 A, US2785839 A, US2642207 A, US2618800 A, US2387699 A, US221091 A, US217127 A, US1913393 A, US1745011 A,

Forward Citations: WO13165405, WO13022696, WO13022696, USD798711, USD797560, USD745395, USD719780, USD719444, USD705004, USD701081, USD701080, USD663593, USD663172, USD652251, USD643721, USD613163, USD595993, USD592906, USD587524, US9810361, US9783348, US9624010, US9586802, US9580216, US9452919, US9394089, US9314121, US9027774, US8905252, US8662359, US8657157, US8590865, US8434649, US8371478, US8251352, US8245891, US7658306, US7527180, US7441677, US7275665, US6851584, US6845887, US6779694, US6742678, US6523720, US2017043915, US2016304253, US2016236197, US2016023804, US2015144665, US2015068406, US2015060499, US2015014367, US2014332568, US2014284823, US2014124050, US2014103078, US2014097210, US2013074448, US2012241453, US2012056339, US2011168743, US2011147405, US2011024453, US2010294083, US2010258495, US2010230447, US2009179052, US2009178729, US2008017675, US2007151990, US2006000855, US2005199631, US2005194402, US2004262337, US2003106909, GB2420557, CN104245565,

Abstract:

Source: US6230944B A pour spout is provided for dispensing liquid from a fluid carrying vessel such as a liquor bottle. The pour spout includes an insertable member configured to engage an internal surface of the bottle neck and form a liquid tight seal therewith. An external spout extends from the insertable member for directing the flow of liquid out of the vessel. Within the pour spout, an internal flow channel extends through both the insertable member and the external spout, the flow channel forming a nozzle aperture at the end of the external spout allowing liquid contained within the vessel to flow through the spout. Finally, a sealable cap is operably attached to the external spout. The cap may be operated between an open and a closed position, wherein in the open position, liquid can flow through the cap, and in the closed position, an air tight seal is formed over the end of the spout.

276) Family number: 18876408 (GB343830A)

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Title: Improvements relating to closures for bottles, jars and like vessels**Priority:** GB19300013417 19300501

Family:	Publication number	Publication date	Application number	Application date
	<u>BE375749 A</u>	00000000		00000000
	<u>FR700950 A</u>	19310309		19300821
	<u>GB343830 A</u>	19310226	GB19300013417	19300501

Probable Assignee: JAMES MACINTOSH GRIGOR**Assignee(s):**^(std) JAMES MACINTOSH GRIGOR ; WILLIAM GRIGOR**Inventor(s):**^(std) GRIGOR JAMES MACINTOSH ; GRIGOR WILLIAM

International class [B65D41/62](#) (Advanced/Invention);
 (IPC 8-9): [B65D41/00](#) (Core/Invention)

International class [B65D41/44](#) [B65D45/00](#)
 (IPC 1-7):

CPC: [B65D41/62](#)**European class:** [B65D41/62](#)[Classification Explorer](#)**Forward Citations:** US4768667, GB2235185,**Abstract:**

Source: GB343830A 13417. [Class 125 (iii).] Relates to closures for bottles and c. of the type set forth in Specification 340,874. According to the invention the closure comprises a capsule 3 having an aperture 5 in the upper end thereof, a tape 4 led under the capsule and through the aperture so that the ends of the tape extend beyond the boundaries of the capsule, a disc 6 fastened at the upper end of the tape, and a second disc 7 at the other end of the tape capable of passing through the aperture 5. An adhesive wafer 8 secures the tape 4 to the bottle 2 above the disc 7.

Title: RAPID FLOW BOTTLE
Priority: US20070896763P 20070323 US20080054307 20080324 US20110373758 20111128
Family:

Publication number	Publication date	Application number	Application date
US2008314933 AA	20081225	US20080054307	20080324
US8561851 BA	20131022	US20110373758	20111128

Probable Assignee: LEONOFF CHRISTOPHER A

Assignee(s):^(std): LEONOFF CHRISTOPHER ; LEONOFF CHRISTOPHER A

Inventor(s):^(std): LEONOFF CHRISTOPHER ; LEONOFF CHRISTOPHER A

Agent(s): DYKAS SHAVER AND NIPPER LLP

International class
 (IPC 8-9): [B65D37/00 B67D3/00](#) (Advanced/Invention);
[B65D37/00 B67D3/00](#) (Core/Invention)

CPC: [B65D2205/00 B65D47/243 B65D2231/005 F16K15/144 Y10T137/7883 Y10T137/7889 B65D23/00](#)

European class: [B65D23/00 L65D205/00](#)

US class: [137/847 137/853 215/11.5 220/703 222/215 222/478 222/481 222/490 222/491](#)

[Classification Explorer](#)

Cited documents: US7040499 BA, US6779694 BB, US6540105 BB, US6367662 BA, US6302286 BA, US6209736 BA, US6138710 A, US6092551 A, US6073812 A, US5862961 A, US5699921 A, US5487490 A, US5465857 A, US5433353 A, US5431290 A, US5301707 A, US5285933 A, US5048705 A, US5010925 A, US4928836 A, US4807785 A, US4598845 A, US4535818 A, US4524805 A, US4311245 A, US4210262 A, US4180106 A, US4174053 A, US2394722 A,

Forward Citations: WO17148983, WO16086966, USD736031, US9347574, US8809253, US8740023, US8658587, US2017095098, US2013140260, US2012305607, US2011233221, JP2016537279,

Abstract:

Source: US2008314933A A one-way air valve that is mounted at one end of a beverage or viscous fluid container, with one end possessing a conventional bottle opening, the one-way air valve being an elastomeric type valve which may be mounted on the container bottom, sidewall or lid. The valve mounted into the container to avoid breakage and prevent leakage, while providing smooth, rapid, flow of contents, reduced aeration and reduced container deformation.

0) CN2295691Y – ANTI-FAKING BOTTLE WITH INTERNAL STOPPER

278) Family number: 16435038 (CN2295691Y)

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Title: Anti-faking bottle with internal stopper

Priority: CN19972007624U 19970218

Family:	Publication number	Publication date	Application number	Application date
	<u>CN2295691 Y</u>	19981028	CN19972007624U	19970218

Probable Assignee: LI ZHIQIANG

Assignee(s):^(std): LI ZHIQIANG

Inventor(s):^(std): ZHIQIANG LI ; LI ZHIQIANG

International class B65D47/40 B65D49/12 (Advanced/Invention);
(IPC 8-9): B65D47/00 B65D49/00 (Core/Invention)

International class B65D47/40 B65D49/12
(IPC 1-7):

[Classification Explorer](#)

Abstract:

Source: CN2295691Y The utility model discloses an impacted anti-counterfeit liquid storage bottle which is composed of a bottle body and a bottle plug. The neck part of the bottle body is embedded with an anti-counterfeit inner plug 1 whose upper part is provided with an overflow passage 2. The middle part of the inner plug is provided with locking element which can be moved along the axial direction of a bottle neck on the slideway 3 of the inner plug and can be used for sealing the liquid flow passage 5 of the inner plug. The impacted anti-counterfeit liquid storage bottle of the utility model can only be used once and can not be used for filling liquid again. The utility model has the advantages of simple structure and low cost and has a good anti-counterfeit capacity when the impacted anti-counterfeit liquid storage bottle is used as a wine bottle, etc.

Title: CONTAINER CLOSURES**Priority:** FR19720037723 19721024 FR19730005059 19730213

Family:	Publication number	Publication date	Application number	Application date
	DE2353304 A1	19740502	DE19732353304	19731024
	DE7338211 U	19750313	DE19730038211U	19731024
	FR2203749 A1	19740517	FR19720037723	19721024
	FR2203749 B1	19760820	FR19720037723	19721024
	FR2217232 A2	19740906	FR19730005059	19730213
	FR2217232 B2	19780303	FR19730005059	19730213
	GB1451097 A	19760929	GB19730049500	19731024
	IT998908 A	19760220	IT19730030487	19731024

Probable Assignee: BORGEAUD BERNARD**Assignee(s):**^(std) BORGEAUD B ; BORGEAUD BEA ; BORGEAUD BERNARD ; BORGEAUD BERNARD EDMOND ALFRED ; BORGEAUD BERNARD FR**International class**
(IPC 8-9): [B65D41/00 B65D41/28](#) (Advanced/Invention);
[B65D41/00 B65D41/02](#) (Core/Invention)**International class**
(IPC 1-7): [B29D31/00 B32B15/08 B65D41/00 B65D41/02 B65D41/34 B65D41/58 B65D41/62 B65D55/02 B67B](#)**CPC:** [B65D41/00 B65D41/005 B65D41/28](#)**European class:** [B65D41/00 B65D41/00B B65D41/28](#)[Classification Explorer](#)**Forward Citations:** GB2279940, GB2244048, GB2244048, FR2451198,**Abstract:**

Source: GB1451097A 1451097 Cap-stoppers B E A BORGEAUD 24 Get 1973 [24 Oct 1972 13 Feb 1973] 49500/73 Heading B8T A cap-stopper comprises a stamped metal sheet envelope 1 constituting the cap, the inside of which is at least partly coated with a synthetic resin plating 2. A stopper 3, which is at least partly made from a resin, weldable to said synthetic resin, is placed inside the cap, and the whole is heated briefly so that a weld between the stopper 3 and the plating 2 is formed. The stopper 3 has a peripheral skirt 4 and an inner skirt 5 which engage both sides of the neck of the container to be capped. Protuberances 6, 7 ensure tightness of fit. A ring 11a is formed at the lower end of the cap 1 with a beginning of a tear 8, said ring and said cap being separated on first opening. Another embodiment has a threaded stopper.

280) Family number: 21373035 (FR1257183A)

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Title: PROCEDE DE CAPSULAGE DE FLACONS, BOUTEILLES OU AUTRES RECIPIENTS AU MOYEN DE CAPSULES SERTISSABLES CAPSULAGE PROCESS OF BOTTLES, BOTTLES OR OTHER CONTAINERS WITH CAPSULES socketable (Machine translation)

Priority: FR19600818883 19600218

Publication number	Publication date	Application number	Application date
<u>FR1257183 A</u>	19610331	FR19600818883	19600218

Probable Assignee: PIERRE REMY AND CIE ETS

Assignee(s):^(std) PIERRE REMY AND CIE ETS

Assignee(s): PIERRE REMY AND COMP ETS ; ETABLISSEMENTS PIERRE REMY AND COMPAGNIE

International class
(IPC 8-9): B65D41/10 (Advanced/Invention);
B65D41/02 (Core/Invention)

International class
(IPC 1-7): B65D41/40

CPC: B65D41/10

European class: B65D41/10

[Classification Explorer](#)

Abstract:

Source: FR1257183A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. place une rondelle ou disque d'etancheite 10 insere dans le fond de la capsule. Naturellement, des moyens differents que ceux representes peuvent etre utilises pour maintenir en place la capsule 1 sur le goulot de la bouteille sans pour cela sortir du' cadre de l'invention. Bien entendu, l'invention n'est nullement limitee aux modes d'execution decrits et representes qui n'ont ete donnes qu'a titre d'exemple. RESUME L'invention a essentiellement pour objets: I.

Machine translation: (Claim 1) ** WARNING ** start of CLMS field may contain end of DESC **. Place a washer or sealing disc 10 inserted in the bottom the capsule. Course, means different than those represented may be used to hold in place a cap on the neck of the bottle without departing from the 'scope of the invention. Of course, the invention is not limited to the embodiments described and represented that have been given by way of example. SUMMARY The invention is essentially objects of I.

0) US2501849A – SINGLE CLOSURE FOR BOTTLES

281) Family number: 21569816 (US2501849A)

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Title: SINGLE CLOSURE FOR BOTTLES

Priority: US19470749674 19470522

Family:	Publication number	Publication date	Application number	Application date
	<u>US2501849 A</u>	19500328	US19470749674	19470522

Probable Assignee: STANDARD CAP AND SEAL CORP

Assignee(s):^(std): STANDARD CAP AND SEAL CORP

Inventor(s):^(std): KREBS CHARLES H

International class
(IPC 8-9): B65D41/14 (Advanced/Invention);
B65D41/02 (Core/Invention)

International class
(IPC 1-7): B65D41/14

CPC: B65D41/14 Y10T156/1034 Y10T156/1048 Y10T428/214 Y10T428/249965
Y10T428/31703

European class: B65D41/14

US class: 156/216 156/224 156/69 156/87 215/261 215/347 428/311.71 428/464 428/66.3

[Classification Explorer](#)

Cited documents: US2121951 A, US2005349 A, US1732958 A, US1335538 A, US1257710 A, US1144589 A, GB419684 A, GB402313 A,

Forward Citations: WO09114727, US9414699, US8113367, US5712042, US2013248481, US2010294770, US2009230081, US2008197099, EP2310287, EP1804624, EP1804624, DK100022, AU2005284663,

Abstract:

Source: US2501849A (Claim 1) 1. A skirted closure for bottles, comprising an intermediate layer of thin metal foil, a thin layer of paper secured to each side of the metal foil by a layer of water-insoluble material interposed there between, the bottom layer of paper being machine glazed paper with glazed side in contact with said water-insoluble materials and forming the inner layer of said closure, said inner layer with minute passages within its limits acting as gas vents between the interior of said bottle and the exterior thereof when applied to a bottle containing a liquid and a gas without permitting the liquid contents of the bottle to pass therethrough, substantially as described.

0) US2736447A – COMBINED SEALING RING AND POUR-OUT FITMENT

282) Family number: 21706686 (US2736447A)

© PatBase

Title: COMBINED SEALING RING AND POUR-OUT FITMENT

Priority: US19530377334 19530831

Family:	Publication number	Publication date	Application number	Application date
	<u>US2736447 A</u>	19560228	US19530377334	19530831

Probable Assignee: OWENS ILLINOIS GLASS CO

Assignee(s):^(std): OWENS ILLINOIS GLASS CO

Assignee(s): OWENS ILLINOIS GLASS COMPANY

Inventor(s):^(std): DE BROCK ROBERT F

Inventor(s): BROCK ROBERT F DE

International class B65D53/02 (Advanced/Invention);
(IPC 8-9): B65D53/00 (Core/Invention)

International class B65D53/02
(IPC 1-7):

CPC: B65D53/02 Y10T16/39

European class: B65D53/02

US class: 16/108 222/571

[Classification Explorer](#)

Cited documents: US599460 A, US591778 A, US302268 A, US2581647 A, US1178982 A, FR788855 A,

Forward Citations: WO04103839, US7407067, US6302336, US3942660, US3179290, US3082895, US2964208, US2917198, US2854163, US2848145, US2839230, US2823837, US2008047922, US2007017940, US2006081649, EP1631500, DE1106201, CN105836276,

Abstract:

Source: US2736447A (Claim 1) 1. A combined sealing ring and pour-out fitment for bottles and like containers, said ring being of unitary construction and formed of resilient material and comprising an annular upper wall providing a continuous flat top surface lying in a plane normal to the axis of the ring, an annular depending attaching skirt formed integral with the outer periphery of said wall and together with the latter providing a sharp circumferential corner at the point of juncture of their exterior surfaces, an annular internal flange directed inwardly and downwardly from the inner periphery of said wall, said flange having a major lower portion of that surface facing the axis of the ring curved generally downwardly and inwardly and thence downwardly and outwardly to a point of merger with that surface of the flange which faces radially outward.

283) Family number: 227232 (BRPI9200575A)

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Title: SISTEMA DE VEDACAO DE FRASCOS FISIOLÓGICOS PARA SOLUCOES PARENTERAIS FISIOLÓGICOS JARS SEAL SYSTEM FOR PARENTERAL SOLUTIONS (Machine translation)

Priority: BR1992PI00575 19920221

Publication number	Publication date	Application number	Application date
<u>BRPI9200575 A</u>	19920616	BR1992PI00575	19920221

Probable Assignee: ALCIONE FERREIRA PASSOS

Assignee(s):^(std) ALCIONE FERREIRA PASSOS

Inventor(s):^(std) PASSOS ALCIONE FERREIRA

Inventor(s): ALCIONE FERREIRA PASSOS

International class
(IPC 8-9): B65D53/00 B65D85/72 (Advanced/Invention);
B65D53/00 B65D85/72 (Core/Invention)

International class
(IPC 1-7): B65D53/00 B65D85/72

[Classification Explorer](#)

Abstract:

Source: BRPI9200575A [Source: Claim 1] 1 – Sistema de Vedacao de Frascos Fisiologi cos para Solucoes Parenterais, compreende um frasco (1), e um bato que (4), caracterizado por um gargalo largo (2), so _ bre cuja borda (3)» se assenta por meio de um flange (5), um batoque (4), dotado internamente de um flange fechado / (7), cujo centro se desenvolve para um cilindro (8), sede/ da agulha (10), do equipo de soro cuja ponta penetra atra– ves da membrana (9), dando vazao ao liquido contido no / frasco fisiologico (1). [Source: Claim 1] 1–Wire system of Fisiologi Bottles cos for Parenteral Solutions, comprises a bottle (1), and a hit that (4), characterized by a wide neck (2), so _ bre whose edge (3)» sits through a flange (5), a stopper (4) with internally of a closed/flange (7), whose Centre develops to a cylinder (8), needle/seat (10), the team whose tip serum penetrates atra– ves of membrana (9), giving the liquid contained in the flow/fisiologico bottle (1).

284) Family number: 25400613 (US3164278A)

© PatBase

Title: Stopper for closing containers, such as bottles, flasks and the like
Priority: DE1963L044850 19630509 DE1964L047427 19640326 FR19630931410 19630412
Family:

Publication number	Publication date	Application number	Application date
AT252053 B	19670210	AT19630005299	19630703
CH438062 A	19670615	CH19640004556	19640409
DE1432196 A1	19681219	DE19631432196	19630509
DE1432197 A1	19691120	DE19641432197	19640326
ES296640 A1	19640901	ES19640296640	19640220
FR1361543 A	19640522	FR19630931410	19630412
GB998747 A	19650721	GB19630030154	19630730
LU45862 A	19641011		19640411
NL6403626 A	19641013	NL19640003626	19640406
US3164278 A	19650105	US19630297112	19630723

Probable Assignee: LOHRER HARDY**Assignee(s):^(std):** HARDY LOHRER ; LOEHRER HARDY ; LOHRER HARDY**Assignee(s):** HARDY LOEHRER**Inventor(s):^(std):** HARDY LOEHRER ; HARDY LOHRER ; LOEHRER HARDY ; LOHRER HARDY

International class [B65D41/48](#) (Advanced/Invention);
 (IPC 8-9): [B65D41/32](#) (Core/Invention)

International class [B65D41/48](#) [B65D41/60](#) [B67B](#)
 (IPC 1-7):

CPC: [B65D41/485](#) [B65D2101/003](#) [B65D2101/0038](#) [B65D2101/0046](#)**European class:** [B65D41/48B](#) [L65D101/00A3B](#) [L65D101/00A3C](#) [L65D101/00A3D](#)**US class:** [215/320](#)[Classification Explorer](#)**Cited documents:** US3074579 A, US2926806 A, US2894654 A, US2772802 A, US2717228 A, US1946981 A,**Forward Citations:** WO15184396, WO08132665, WO05115859, US5762218, US4320843, US3411652, US3300073, US2007281303, EP0017108,**Abstract:**

Source: GB998747A 998,747. Stoppers. H. LOHRER. July 30, 1963 [May 9, 1963], No. 30154/63. Heading B8T. An elastic stopper (Fig. 1) has a central tapered plug portion 11 and an outer skirt 1 of which the lower portion 3 may be torn off. The entire upper surface 12 may be curved and generated by a parabola or circular arc.

285) Family number: 8755410 (US5957313A)

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Title: THEFT PREVENTING DEVICE, PARTICULARLY FOR BOTTLES**Priority:** FR19950007356 19950620 WO1996FR00962 19960620

Family:	Publication number	Publication date	Application number	Application date
	AU199663634 A1	19970122	AU19960063634	19960620
	BRPI9608679 A	19991207	BR1996PI08679	19960620
	EP0833784 A1	19980408	EP19960922965	19960620
	FR2735751 A1	19961227	FR19950007356	19950620
	FR2735751 B1	19970912	FR19950007356	19950620
	MX9710405 A1	19981031	MX19970010405	19971218
	PL324290 A1	19980511	PL19960324290	19960620
	US5957313 A	19990928	US19980973957	19980717
	WO9700819 A1	19970109	WO1996FR00962	19960620

Probable Assignee: SICHUAN INDUSTRIAL INST OF ANTIBIOTICS**Assignee(s):^(std):** FORS FRANCE SA ; BOUAN BRUNO**Assignee(s):** FORS FRANCE S A ; SICHUAN INDUSTRIAL INST ; SICHUAN INDUSTRIAL INST OF ANTIBIOTICS**Inventor(s):^(std):** BOUAN BRUNO**Inventor(s):** BRUNO BOUAN**Designated states:** AT AU BE BR CA CH CN DE DK ES FI FR GB GR IE IL IT JP LI LU MC MX NL PL PT RU SE US

International class
 (IPC 8-9): [B65D45/32](#) [B65D50/06](#) [B65D55/02](#) (Advanced/Invention);
[B65D45/00](#) [B65D50/00](#) [B65D55/02](#) (Core/Invention)

International class
 (IPC 1-7): [B65D45/32](#) [B65D50/14](#) [B65D55/02](#) [B65D55/08](#) [B65D55/14](#)

CPC: [E05B73/0041](#) [B65D50/06](#) [B65D45/32](#) [B65D55/022](#)**European class:** [B65D45/32](#) [B65D50/06](#) [B65D55/02D](#)**US class:** [215/215](#) [215/302](#) [220/230](#) [220/284](#)[Classification Explorer](#)**Cited documents:** US5405037 A, US3961721 A, US3025990 A, US2565891 A, GB677311 A, FR2696999 A1,

Forward Citations: WO11112757, WO11101873, WO06123152, WO06033124, USD540650, US9452868, US9206628, US8890689, US8887541, US8636167, US8525675, US8434201, US8368537, US8317048, US8152009, US7866497, US7602297, US7570161, US7498945, US7498944, US7492265, US7492264, US7492263, US7486190, US7463152, US7397375, US7394383, US7372363, US7350655, US7350654, US7350653, US7350652, US7259674, US7100784, US7100783, US7007523, US7004340, US6912878, US6793081, US6772893, US6629401, US6604643, US6276545, US6213323, US2015217909, US2015053702, US2013334162, US2013200014, US2012152883, US2012151974, US2011219828, US2011214260, US2011132907, US2011102179, US2010163510, US2010032403, US2009184121, US2009045228, US2008156764, US2008030334, US2008030333, US2008030332, US2007273536, US2007271970, US2007247313, US2007241910, US2007236353, US2006170559, US2006092013, US2006049629, US2005151381, US2005144992, US2004163430, US2003102282, RU2494941, NL1007559, GB2430193, GB2430193, GB2403715, FR3028505, FR2843154, ES2318972, EP1794060, DE112004002029, CN105346838, CN104790742, AU2006248722, AU2004323448,

Abstract:

Source: US5957313A PCT No. PCT/FR96/00962 Sec. 371 Date Jul. 17, 1998 Sec. 102(e) Date Jul. 17, 1998
 PCT Filed Jun. 20, 1996 PCT Pub. No. WO97/00819 PCT Pub. Date Jan. 9, 1997A theft preventing device for an

article having a substantially cylindrical end with a substantially ring-shaped bulge, e.g. a bottle or container. The device comprises a releasable body having a clamping means gripping the cylindrical end when in the closed position, and a locking means for preventing the clamping means from being opened unless a special tool is used. The body comprises of a substantially tubular element with a larger diameter than the ring-shaped bulge, and comprises a member that is movable relative to the tubular element between a closed position in which it defines a cross-section smaller than that of the ring-shaped bulge, and a released position in which it defines a cross-section greater than that of the ring-shaped bulge.

286) Family number: 18782703 (GB429695A)

© PatBase

Title: Improvements in or relating to stoppers for bottles, cans and the like**Priority:** GB19330034661 19331208

Publication number	Publication date	Application number	Application date
<u>GB429695 A</u>	19350605	GB19330034661	19331208

Probable Assignee: SUTAX LTD**Assignee(s):**^(std): JOHN WILLIAM SUTCLIFFE ; SUTAX LTD ; TOM SUTCLIFFE**Assignee(s):** SUTAX LIMITED

International class B65D39/16 (Advanced/Invention);
 (IPC 8-9): B65D39/00 (Core/Invention)

International class B65D39/16
 (IPC 1-7):

CPC: B65D39/16**European class:** B65D39/16[Classification Explorer](#)**Abstract:**

Source: GB429695A 34661. [Class 125 (iii)] A stopper for a bottle and c. comprises a head 1 and a peg 2 and a cork 3 with a peripheral shoulder 4. The head of the stopper is enclosed by a cap 5 having a peripheral shoulder, the skirt of the cap applying radial pressure to the cork, so that a seal is formed between the cork and the bottle. The skirt 13 of the cap may be inclined towards the axis of the bottle. The shouldered portion of the cap may fit over a ring fitted around the cork. A securing ring 6 may be applied to the bottle neck.

287) Family number: 19953414 (GB412609A)

© PatBase

Title: Improvements in moulded cases or like containers**Priority:** GB19320036940 19321230

Family:	Publication number	Publication date	Application number	Application date
	<u>GB412609 A</u>	19340702	GB19320036940	19321230

Probable Assignee: UNIVERSAL SEAMLESS CONTAINERS**Assignee(s):^(std):** KENNETH BURGISS BROWN ; UNIVERSAL SEAMLESS CONTAINERS**Assignee(s):** UNIVERSAL SEAMLESS CONTAINERS LIMITED ; UNIVERSAL SEAMLESS CONTAINERS LTD

International class B65D23/08 B65D77/04 (Advanced/Invention);
 (IPC 8-9): B65D23/00 B65D77/04 (Core/Invention)

International class D21J7/00
 (IPC 1-7):

CPC: B65D23/0885 B65D77/0486**European class:** B65D23/08F B65D77/04F1[Classification Explorer](#)**Forward Citations:** WO0226577, US6983843, US6942115, US5967320, US5730289, US5503281, US3507416, GB2367277, GB2367277, EP1412253, AU2002253786,**Abstract:**

Source: GB412609A 36940. [Class 18.] A bottle or like case or like container moulded from cellulosic pulp material has one open end provided with integrally form closure means, the whole container including the closure means being formed in one moulding operation. As shown the case 1 is provided with four integrally-moulded closure flaps 3 joined to the body of the case along lines 4 of comparative flexibility, these lines being produced in the moulding operation or subsequently. The bottle, and c. is located and gripped in the case by internal projections 6 formed by depressions 5 moulded in the outer surface and projections 6, formed by deep depressions 5, engage endwise with the shoulder of the bottle, and c. to locate it endwise in the case and prevent undue pressure of the neck of the bottle and c. on the closed end 2 of the case. The case may be provided with ornamental mouldings in addition to the locating depressions or without them. The case may be of rectangular cross-section or of circular cross-section charging to rectangular cross-section at the open end and only two closure flaps may be provided.

288) Family number: 34586686 (WO07068038A1)

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Title: CONTAINER CLOSURE**Priority:** AU20050907006 20051213

Family:	Publication number	Publication date	Application number	Application date
	<u>WO07068038 A1</u>	20070621	WO2006AU01878	20061211

Probable Assignee: AUSCAP PTY LTD**Assignee(s):^(std):** ARDUCA ANTHONY ; AUSCAP PTY LTD**Inventor(s):^(std):** ARDUCA ANTHONY

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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
 (IPC 8-9): B65D41/34 B65D41/40 B65D43/10 B65D51/18 B65D55/02 B65D55/08
B65D55/12 (Advanced/Invention);
B65D41/32 B65D41/34 B65D43/08 B65D51/18 B65D55/02 (Core/Invention)

CPC: B65D1/0246 B65D41/0464 B65D41/62**European class:** B65D1/02D1B B65D41/04D4 B65D41/62[Classification Explorer](#)**Cited documents:** WO0075033, US5467880, US4534480, US2003102280, EP1002737, EP0500265, EP0413466,**Abstract:**

A container and closure combination includes a container (20) having a central axis (24) and an open end (22). The closure (40) covers the open end (22) and has dependent sides. The container has integrally formed first engagement means (28) and the closure has second engagement means (48). The first and second engagement means (28, 48) mutually engage to retain the radial position of at least a portion (44) of the closure relative to the container (20). A method of forming a container and closure combination is also claimed. A container and a closure is also separately claimed.

0) ES1040921Y – TAPON HERMETICO PARA BOTELLAS.

289) Family number: 34656820 (ES1040921Y)

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Title: TAPON HERMETICO PARA BOTELLAS.

Priority: ES19980001897U 19980715

Family:

Publication number	Publication date	Application number	Application date
ES1040921 UA	19990601	ES19980001897U	19980715
ES1040921 Y1	20000201	ES19980001897U	19980715
ES1040921 YA	20000201	ES19980001897U	19980715

Probable Assignee: COMAS BACH S L

Assignee(s):^(std): COMAS BACH S L

Assignee(s): COMAS BACH SL

Inventor(s):^(std): COMAS ARTEAGA JOSEP

International class [B65D41/46](#) (Advanced/Invention);
(IPC 8-9): [B65D41/32](#) (Core/Invention)

International class [B65D41/46](#)
(IPC 1-7):

[Classification Explorer](#)

Abstract:

Source: ES1040921U 1. TAPON HERMETICO PARA BOTELLAS QUE COMPRENDE UN CUERPO RIGIDO QUE CUBRE EL CUELLO DE LA BOTELLA Y MEDIOS PARA FIJARSE A ESTA, CARACTERIZADO POR EL HECHO DE QUE DICHOS MEDIOS DE FIJACION COMPRENDEN, POR LO MENOS, UN PAR DE PIEZAS DESPLAZABLES ENTRE SI QUE PERMITEN QUE EL TAPON SE FIJE A LA BOTELLA DE MANERA AMOVIBLE. 1. Sealing plug for bottles COMPRISING A RIGID BODY THAT COVERS THE NECK OF THE BOTTLE AND MEANS FOR ATTACHMENT TO THIS, characterized IN THAT SAID FIXING MEANS COMPRISE AT LEAST ONE PAIR OF MOVABLE PARTS TOGETHER TO ALLOW THE CAP TO BE SECURED TO THE BOTTLE IN A REMOVABLE way.

0) RU86934U – BOTTLE (MACHINE TRANSLATION)

290) Family number: 43943678 (RU86934U)

© PatBase

Title: BOTTLE (Machine translation)

Priority: RU20080130278U 20080723

Family:	Publication number	Publication date	Application number	Application date	
	<u>RU86934 U1</u>	20090920	RU20080130278U	20080723	

International class B65D1/02 (Advanced/Invention);
(IPC 8-9) B65D1/02 (Core/Invention)

[Classification Explorer](#)

Forward Citations: RU2575697,

Abstract:

Source: RU86934U

Machine translation: 1. A bottle containing a housing defining a chamber for the fluid, the top of which there are shoulders and neck, the upper cap and lower cap, located on the side of the bottom of the hull and fitted around the perimeter of at least two internal projections, and the lower part of the body has stage element of smaller diameter, the perimeter of which is made projection for interacting with internal projections of the lower cap, characterized in that the top of the shoulders of a stage element with a rectangular projection, twisted clockwise, the outer diameter of the top cap is the same as the diameter of the bottle body, the the lower edge of the upper cap fixed rumble strips, passing around the perimeter, the lower part of it comes into rectangular tabs of the top of the case, in addition, over the projection step element bottom of the housing around the perimeter of a recess and a height equal to the height of the lower cap step element with the projection and the recess bottom of the housing, and the outer diameter to match the diameter of the bottle body.! 2. The bottle of claim 1, characterized in that the bottom surface and the bottom of the case there are technological deepening.! 3. The bottle of claim 1, characterized in that the top cap is integral with the cover on the inside of him and interacting with the neck.! 4. The bottle of claim 3, wherein the cap is located inside the upper ribs.

Title:	APPARATUS FOR MOLDING PLASTIC ARTICLES			
Priority:	US19820385064 19820604			
Family:	Publication number	Publication date	Application number	Application date
	<u>US4496302 A</u>	19850129	US19820385064	19820604
Probable Assignee:	HUSKY INJECTION MOLDING SYSTEMS INC			
Assignee(s):^(std):	HUSKY INJECTION MOLDING			
Assignee(s):	HUSKY INJECTION MOLDING SYSTEMS INC			
Inventor(s):^(std):	BROWN PAUL			
International class (IPC 8-9):	<u>B29C45/44 B65D41/34</u> (Advanced/Invention); <u>B29C45/44 B65D41/34</u> (Core/Invention)			
International class (IPC 1-7):	<u>B29D1/00 B29F1/14</u>			
CPC:	<u>Y10S425/058 B65D41/3428 B29C45/2681 B29C45/4407 B29L2031/565 B65D41/3409</u>			
European class:	<u>B29C45/26P B29C45/44B B65D41/34A1 B65D41/34C1 L29L31/56B</u>			
US class:	<u>249/142 249/161 249/59 249/63 249/68 264/318 425/438 425/443 425/547 425/556 425/577 425/DIG.58</u>			

[Classification Explorer](#)**Cited documents:** US4399092 A, US3940103 A, US3737277 A,

Forward Citations: WO8601179, WO15180734, WO06040661, WO06040661, WO05090183, US8517194, US8216504, US8113817, US7537445, US7462027, US6739860, US6729488, US6551093, US6405886, US6355201, US6279766, US6238202, US6079973, US5798074, US5565223, US5421717, US5383780, US5281385, US5230856, US5037290, US4890754, US4830214, US4822270, US4806301, US4673158, US4618121, US4552328, US2012251656, US2009166927, US2008102155, US2008087627, US2007114697, US2006286196, US2006115551, US2005199574, GB2349602, GB2349602, EP1814705, EP1735219, EP0595212, EP0306259, EP0245534, EP0245534, EP0245534, CN106103039,

Abstract:

Source: US4496302A In order to mold tamperproof bottle closures or other plastic articles having a threaded cap frangibly connected with an adjoining skirt which has a number of internal projections or spurs inclined in a transverse plane at approximately identical acute angles to its inner peripheral surface, a male mold portion has a core in the form of a stepped cylinder with a small-diameter part rotatably enveloped by a sleeve flush with an adjoining large-diameter part jointly defining an annular gap with a surrounding shell. The sleeve has recesses in the shape of undercut slots forming the internal projections of a skirt molded in that gap; after sufficient hardening, the shell is rotated to extract these projections from their recesses with resulting radial expansion of the skirt into an adjoining space from which the shell has been axially withdrawn. A stripper then detaches the body of the molded article by an axial thrust from the large-diameter core part while axially entraining the shell which bears upon the expanded skirt to help eject the article from the mold; the skirt, still connected with the body by a rupturable link, thereafter elastically regains its original shape as do the spurs internally projecting therefrom. Circulation of a cooling fluid through the interior of the core accelerates the hardening of the article prior to its ejection from the mold.

Priority: LU19700060207 19700120

Family:

Publication number	Publication date	Application number	Application date
LU60207 A	19710922		19700120

International class B65D41/12 (Advanced/Invention);
(IPC 8-9): B65D41/02 (Core/Invention)

CPC: B65D41/12

European class: B65D41/12

[Classification Explorer](#)

Abstract:

Source: LU60207A [Source: Claim 1] 1. Bouchon-couronne destine a fermer une bouteille ou analogue dont le goulot presente au voisinage de son bord, un bourrelet ou au moins un filet lateral de fermeture, ce bouchon-couronne comprenant essentiellement un fond et une jupe de fermeture pourvue de dents ou de nervures et prolongee au-dela de celles-ci par un anneau de protection marginal concave vers l'axe du bouchon-couronne, cet anneau de protection etant apres sertissage rabattu en dessous du bourrelet ou du filet de fermeture du goulot jusqu'a peu de distance de ce dernier, caracterise en ce que l'anneau de protection presente avant sertissage des renforcements regulierement repartis sur son pourtour et diriges vers le meme axe ou vers l'interieur de la jupe de fermeture, ces renforcements assurant, apres sertissage, la formation dans l'anneau de protection, de saillies dirigees toutes interieurement. [Source: Claim 1] " 1. Cap-Crown intended close a bottle or similar with the present bottleneck in the vicinity of its edge, a bead or at least a net side of closure, this cap-Crown comprising essentially a background and a skirt of closing with teeth or ribs and extended beyond that - by a marginal protection ring concave toward the axis of the Crown Cap, this protection being after crimping ring folded down below the flange or the net of closure of the neck up to short distance from the latter, characterized in that protection present prior to crimping ring of like - ments regularly distributed around its edge and headed to the same axis or inside of the skirt of closing, these recesses providing, after crimping, training in a ring of protection, -salties directed all internally.

0) GB271182A – AN IMPROVED BOTTLE OR JAR CONTAINER FOR GROCERI...

293) Family number: 18363259 (GB271182A)

© PatBase

Title: An improved bottle or jar container for groceries and the like

Priority: GB19260005800 19260302

Family:	Publication number	Publication date	Application number	Application date
	<u>GB271182 A</u>	19270526	GB19260005800	19260302

Probable Assignee: GEORGE EDWARD WILSON CROWE

Assignee(s):^(std): GEORGE EDWARD WILSON CROWE

International class
(IPC 8-9): B65D41/04 (Advanced/Invention);
B65D41/04 (Core/Invention)

CPC: B65D41/04

European class: B65D41/04

[Classification Explorer](#)

Forward Citations: US4852774, US3006493,

Abstract:

Source: GB271182A Drawings to Specification. Modified for receiving labels.–Recessed panels are provided in the walls of a bottle or jar to receive contents labels.

0) GB271305A – IMPROVEMENTS IN OR RELATING TO CAPS FOR CANISTE...

294) Family number: 18363613 (GB271305A)

© PatBase

Title: Improvements in or relating to caps for canisters and bottles

Priority: GB19260021766 19260903

Family:	Publication number	Publication date	Application number	Application date
	<u>GB271305 A</u>	19270526	GB19260021766	19260903

Probable Assignee: BARNSELY CANISTER AND ENGINEERIN

Assignee(s):^(std): BARNSELY CANISTER AND ENGINEERIN ; JOHN WILLIAM HASWELL PICKERING

Assignee(s): BARNSELY CANISTER AND ENGINEERING CO LTD ; BARNSELY CANISTER AND ENGINEERING COMPANY LIMITED

International class B65D41/04 (Advanced/Invention);
(IPC 8-9): B65D41/04 (Core/Invention)

International class B65D41/10
(IPC 1-7):

CPC: B65D41/04

European class: B65D41/04

[Classification Explorer](#)

Forward Citations: US3081904,

Abstract:

Source: GB271305A Cap stoppers, screw; screw stoppers formed to aid withdrawal.—In a cap for canisters and bottles having a threaded neck, the cap comprising a top and flange pressed or stamped from sheet metal the flange b of the cap a is formed with three or more lacets c provided with internal projections d formed by indenting the facets. The indentations are arranged in progression to correspond to the threads on the neck.

0) GB666746A – IMPROVEMENTS IN AND RELATING TO STOPPERS FOR BO...

295) Family number: 19499082 (GB666746A)

© PatBase

Title: Improvements in and relating to stoppers for bottles, flasks and the like

Priority: GB19490026149 19491012

Family:	Publication number	Publication date	Application number	Application date
	<u>GB666746 A</u>	19520220	GB19490026149	19491012

Probable Assignee: TIZER LTD

Assignee(s):^(std): TIZER LTD

Assignee(s): TIZER LIMITED

Inventor(s):^(std): WILLIAMS STANLEY

International class B65D41/04 (Advanced/Invention);
(IPC 8-9): B65D41/04 (Core/Invention)

International class B65D41/04
(IPC 1-7):

CPC: B65D41/0442 B65D41/0492

European class: B65D41/04D1 B65D41/04G

[Classification Explorer](#)

Forward Citations: DE1127239,

Abstract:

Source: GB666746A [Oct. 12, 1949] No. 26149/49. Class 125(iii). A screw-cap stopper has a central boss 1 of less diameter than the container neck and mounting on a step 2 a rubber or like resilient ring 3 of rectangular section ana of such a size that it is compressed on and into the container neck on screwing down the cap. The ring is held in place by the head 6 of a peg 5. The boss may be fixed to or integral with the cap.

296) Family number: 21590993 (GB993247A)

© PatBase

Title: Improvements in safety closures for screw top bottles, jars, cans or other screw topcontainers**Priority:** AU19610002083 19610302

Publication number	Publication date	Application number	Application date
<u>GB993247 A</u>	19650526	GB19620007539	19620227

Probable Assignee: UNIVERSAL SAFETY CLOSURES PROP**Assignee(s):^(std):** UNIVERSAL SAFETY CLOSURES PROP**Assignee(s):** UNIVERSAL SAFETY CLOSURES PROPRIETARY LIMITED

International class B65D50/04 (Advanced/Invention);
 (IPC 8-9): B65D50/00 (Core/Invention)

International class B65D55/12
 (IPC 1-7):

CPC: B65D50/041**European class:** B65D50/04B[Classification Explorer](#)**Abstract:**

Source: GB993247A 993,247. Stoppers. UNIVERSAL SAFETY CLOSURES PROPRIETARY Ltd. Feb. 27, 1962 [March 2, 1961], No. 7539/62. Heading B8T. A safety closure for a screw top bottle comprises an outer annular member 5 with a flange 6 which engages between the bottom of a screw cap 12 and a collar 10 on the neck of the bottle. The member 5, which may be of resilient plastics material, is freely rotatable about the cap 12 and prevents the normal gripping of the cap and its removal by an infant. The cap is knurled at 12a to improve contact with the user's palm. Radial ribs 15 on the member 5 keep the screw cap 12 and member 5 in contact. In other embodiments, the flange 6 may comprise circumferentially spaced sections and the ribs 15 may be rectangular or circular in shape. Specification 881,367 is referred to.

0) GB114860A – IMPROVEMENT IN GLASS BOTTLES

297) Family number: 25517745 (GB114860A)

© PatBase

Title: Improvement in Glass Bottles

Priority: GB19170001896 19170207

Family:	Publication number	Publication date	Application number	Application date
	<u>GB114860 A</u>	19180408	GB19170001896	19170207

Probable Assignee: MONEY GEORGE JOHN

Assignee(s):^(std): MONEY GEORGE JOHN

Assignee(s): GEORGE JOHN MONEY

Inventor(s):^(std): MONEY GEORGE JOHN

Inventor(s): GEORGE JOHN MONEY

International class B65D49/12 (Advanced/Invention);
(IPC 8-9): B65D49/00 (Core/Invention)

International class B65D49/12
(IPC 1-7):

CPC: B65D49/12

European class: B65D49/12

[Classification Explorer](#)

Abstract:

Source: GB114860A Special shapes. – Hermetically-scaled glass bottles for containing acid and c. are provided in the neck with one or more weakening grooves or dents B, or with internal or external projecting points C, D which can be readily broken or pierced by a nail and c. to release the contents. The points C, D are made thin enough to be pierced or broken without breaking the neck of the bottle. Reference has been directed by the Comptroller to Specifications 21554/05, 18334/06, 11587/07, 27308/07, 17593/12, 1882/15, and 1982/15.

Title: Bottle closure
Priority: NO19730003502 19730907

Family:	Publication number	Publication date	Application number	Application date
	AT330601 B	19760712	AT19740005872	19740716
	AT587274 A	19750915	AT19740005872	19740716
	BE819613 A	19741231	BE19740148264	19740906
	BE819613 A1	19741231	BE19740148264	19740906
	CH586632 A	19770415	CH19740009411	19740709
	DE2421698 A1	19750320	DE19742421698	19740504
	DK473674 A	19750512	DK19740004736	19740906
	ES205103 U	19760201	ES19740205103U	19740803
	ES205103 Y	19760516	ES19740205103U	19740803
	ES429879 A1	19770416	ES19740429879	19740907
	FI260174 A	19750308	FI19740002601	19740905
	FR2243122 A1	19750404	FR19740027551	19740808
	JP50071474 A2	19750613	JP19740102130	19740906
	NL7411635 A	19750311	NL19740011635	19740902
	NO132792 B	19750929	NO19730003502	19730907
	NO132792 C	19760107	NO19730003502	19730907
	NO350273 A	19750401	NO19730003502	19730907
	SE389658 B	19761115	SE19740011280	19740906
	SE389658 C	19770224	SE19740011280	19740906
	SE7411280 A	19750310	SE19740011280	19740906
	US3973688 A	19760810	US19740501269	19740828

Probable Assignee: NORDPREMIUM AS

Assignee(s):^(std): NORDPREMIUM AS ; KVM OLE JACOB

Assignee(s): NORDPREMIUM ; NORDPREMIUM ANS ; NORDPREMIUM AS NO ; NORDPREMIUM A S ; A S NORDPREMIUM ; A S NORDPREMIUM OSLO ; A S NORDPREMIUM TE OSLO ; ANS NORDPREMIUM

Inventor(s):^(std): KVM O J ; KVM OLE JACOB ; THRANESGATE WALDEMAR

Inventor(s): THRANESGATE WALDEMAR OSLO

International class
 (IPC 8-9): [B65D41/10](#) [B65D41/16](#) [B65D53/00](#) (Advanced/Invention);
[B65D41/02](#) [B65D53/00](#) (Core/Invention)

International class
 (IPC 1-7): [B65D39/18](#) [B65D41/02](#) [B65D41/10](#) [B65D41/12](#) [B65D41/16](#) [B65D41/22](#) [B65D45/28](#)
[B65D45/32](#) [B65D51/18](#)

CPC: [B65D45/322](#)

European class: [B65D45/32A](#)

US class: [215/272](#)

[Classification Explorer](#)

Cited documents: US3680731 A, US2903148 A, US2586440 A,

Forward Citations: WO13068454, WO03068620, USRE42553, US8061567, US7757902, US6543648, US6409049, US6253941, US6186359, US5855575, US5799810, US5695083, US5562219, US2010282782, US2008053948, EP2592015, EP0290431, EP0290431, CN104039658,

Abstract:

Source: US3973688A The invention is concerned with bottle closures, particularly for bottles containing carbonated beverages and the like and the main object is to provide a closure which represents a gastight seal independent of time and bottle contents, the bottle closure being easy to operate at any time.

299) Family number: 4439849 (FR2480711A)

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Title: PERFECTIONNEMENTS AUX CAPSULES VISSEES POUR LE BOUCHAGE DE RECIPIENTS SOUS PRESSION GAZEUSE BOTTLE STOPPER FOR GASEOUS LIQUIDS – HAS CONICAL RESILIENT SEAL EXTENDING BOTTLE AND TWO OUTSIDE SEALING RINGS BEARING AGAINST RIM

Priority: FR19800008945 19800417

Family:	Publication number	Publication date	Application number	Application date
	FR2480711 A3	19811023	FR19800008945	19800417
	FR2480711 B3	19811224	FR19800008945	19800417

Probable Assignee: ASTRA PLASTIQUE

Assignee(s):^(std): ASTRA PLASTIQUE

Inventor(s):^(std): ODET PHILIPPE ; PERNE RAYMOND

Inventor(s): RAYMOND PERNE ET PHILIPPE ODET

International class
^(IPC 8-9): [B65D41/04](#) (Advanced/Invention);
[B65D41/04](#) (Core/Invention)

International class
^(IPC 1-7): [B65D41/08](#)

CPC: [B65D41/0428](#)

European class: [B65D41/04B2](#)

[Classification Explorer](#)

Cited documents: US3568871, IT477152, FR1187260,

Forward Citations: WO9806636, US6105807,

Abstract:

Source: FR2480711A CAPSULE EN MATIERE SYNTHETIQUE DESTINEE AU BOUCHAGE DES BOUTEILLES RENFERMANT DES LIQUIDES SOUS PRESSION GAZEUSE. ON FAIT COMPORTER AU BORD LIBRE DE LA CHEMINEE AXIALE 5 UN BOURRELET TERMINAL 6 QUI N'AFECTE PAS LA DEFORMABILITE DE LADITE CHEMINEE ET SON APPLICATION CORRECTE CONTRE LE VERRE DU GOULOT, MAIS QUI RIGIDIFIE SUFFISAMMENT LE BORD LIBRE POUR EVITER TOUTE ONDULATION DE CELUI-CI SUSCEPTIBLE DE PROVOQUER UNE PERTE D'ETANCHEITE. INDUSTRIE DES ARTICLES POUR LE BOUCHAGE DES RECIPIENTS. The stopper has an internal screw thread (3) which fits the external thread (8) on the bottle neck (7). The stopper is furnished with an internal cone (6) which is made from flexible material and rests on the inner edge of the bottle neck. The space between the cone and the thread has two further flexible rings (4) which rest on the outside edge of the bottle neck. Gas pressure from the bottle forces the rings up against the bottle surface in order to form a seal. The central part of the stopper (1) is made from rigid material.

0) US5135124A – PRESSURE LOCK BAYONET CLOSURE

300) Family number: 5100023 (US5135124A)

© PatBase

Title: Pressure lock bayonet closure

Priority: US19910697661 19910509

Family:	Publication number	Publication date	Application number	Application date
	<u>US5135124 A</u>	19920804	US19910697661	19910509

Probable Assignee: HOOVER UNIVERSAL

Assignee(s):^(std): HOOVER UNIVERSAL

Assignee(s): HOOVER UNIVERSAL INC

Inventor(s):^(std): WOBSER GREGORY S

International class
(IPC 8-9): B65D41/04 B65D41/06 B65D41/34 B65D51/16 (Advanced/Invention);
B65D41/04 B65D41/34 B65D51/16 (Core/Invention)

International class
(IPC 1-7): B65D41/06 B65D55/02

CPC: B65D41/0471 B65D41/06 B65D41/3442 B65D51/1688

European class: B65D41/04E B65D41/06 B65D41/34D B65D51/16E3

US class: 215/222 215/223 215/307 215/332 220/293 220/296 220/374

[Classification Explorer](#)

Cited documents: US4721220 A, US4643330 A, US4275817 A, US4202462 A, US4032028 A, US3888383 A, US3656647 A, US3402842 A, US1621487 A, US1612449 A, US1443682 A,

Forward Citations: WO9919228, WO9822364, WO9737901, WO9719864, WO9604180, WO9528329, WO9505322, WO17109463, WO17017415, WO16012810, WO04002844, USD798419, USD770593, USD768820, USD758537, USD745399, USD745398, USD745397, USD745396, USD744833, USD740393, USD713267, USD712753, USD707569, USD707568, USD701460, USD684483, USD675527, USD670167, USD645349, USD639164, USD638708, USD625616, USD622145, USD621723, USD620360, USD619459, USD619458, USD619457, USD607754, USD601436, USD596048, USD593876, USD587137, USD554000, USD435194, USD433275, US9782785, US9782784, US9533317, US9409197, US9371863, US9327301, US8925836, US8672159, US8596477, US8579538, US8016148, US7861874, US7819265, US7819264, US7527159, US7107783, US7021477, US6945688, US6848590, US6626314, US6349844, US6276544, US6227391, US6152318, US6129125, US6056136, US6015054, US5996836, US5954240, US5862948, US5778723, US5628417, US5533633, US5507408, US5462186, US5443175, US2011174901, US2011024382, US2010163559, US2008110850, US2008011702, US2007278173, US2007071856, US2006011633, US2005284837, US2005263480, US2005263479, US2005121406, US2005055986, US2004173562, US2004173556, US2004007553, US2003121877, US2003000907, US2002089893, KR101118924, GB2537370, GB2293166, GB2288390, EP1732817, EP0871585, EP0816244, AU677689,

Abstract:

Source: US5135124A A carbonated beverage container having a cap which remains connected to the body of the container during the venting. Interlocking tabs are provided, two sets on the cap and one set on the container body, in a manner which allows the cap to be sufficiently opened to vent the internal pressure of the container. One set of tabs maintain the cap in a sealed relation with the container body while the second set of tabs prevents the cap further rotating during venting. Once the internal pressure has been sufficiently released, the second set of tabs can be disengaged and the cap removed from the container body. The cap is fully engaged and disengaged less than one full rotation of the cap relative to the container body.

0) GB1282754A – PRESSURE CONTAINER WITH CLOSURE CAP

301) Family number: 741963 (GB1282754A)

© PatBase

Title: PRESSURE CONTAINER WITH CLOSURE CAP

Priority: GB19690017267 19690402

Family:	Publication number	Publication date	Application number	Application date
	<u>GB1282754 A</u>	19720726	GB19690017267	19690402

Probable Assignee: MARDON ILLINGWORTH

Assignee(s):^(std): MARDON ILLINGWORTH

Assignee(s): MARDON ILLINGWORTH LIMITED

Inventor(s):^(std): WHITE IRVINE EVERARD

Inventor(s): IRVINE EVERARD WHITE

International class B65D41/18 (Advanced/Invention);
(IPC 8-9): B65D41/02 (Core/Invention)

International class B65D41/18
(IPC 1-7):

CPC: B65D41/18

European class: B65D41/18

[Classification Explorer](#)

Forward Citations: USRE32927, US4793510, US4574975, US4535905, US4187953, DE3234848,

Abstract:

Source: GB1282754A 1282754 Caps for containers MARDON ILLINGWORTH Ltd 10 Nov 1969 [2 April 1969] 17267/69 Heading B8T A cap which is a moulding of a synthetic resin plastics material, comprises a domed crown 12 and a skirt 13 which has alternate fluted portions (15), Fig. 4 (not shown). When applying the cap to a bottleneck 10, the crown 12 is depressed to position 12a, the cap is then placed over the opening and the skirt 13 compressed inwardly to the position shown in full lines. Internal gaseous pressure in the bottle causes the dome 12 to bow outwards as indicated by the arrow A, Fig. 7, to position 12b, the skirt 13 contracting inwardly such that bead 24 reaches position 26b. Removal of the cap is effected by pressing down on the crown 12 thereby causing the skirt 13 to snap outwards.

0) US5156309A – CONTAINER WITH AT LEAST ONE CHAMBER FORMED BY A...

302) Family number: 11748635 (US5156309A)

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Title: CONTAINER WITH AT LEAST ONE CHAMBER FORMED BY A TUBULAR BODY, AND A TUBULAR BODY

Priority: CH19860002847 19860716 EP19870904227 19870706 EP19870904227 19870706
EP19870904227 19870706 US19910652230 19910206 US19880180102 19880511
WO1987CH00083 19870706 US19920936654 19920828 WO1987CH00083 19870606

Family:	Publication number	Publication date	Application number	Application date
	<u>AT84002 E</u>	19930115	AT19870904227T	19870706
	<u>AU198775885 A1</u>	19880210	AU19870075885	19870606
	<u>DE3783351 D1</u>	19930211	DE19873783351	19870706
	<u>EP0273939 A1</u>	19880713	EP19870904227	19870706
	<u>EP0273939 B1</u>	19921230	EP19870904227	19870706
	<u>ES2008136 AF</u>	19890716	ES19870002087	19870716
	<u>US5156309 A</u>	19921020	US19910652230	19910206
	<u>US5374389 A</u>	19941220	US19920936654	19920828
	<u>WO8800563 A2</u>	19880128	WO1987CH00083	19870706
	<u>WO8800563 A3</u>	19880407	WO1987CH00083	19870706

Probable Assignee: ADOLF WUERTH GMBH AND CO KG

Assignee(s):^(std): FRIEDRICH R ; FRIEDRICH RICHARD ; WUERTH ADOLF GMBH AND CO KG

Assignee(s): ADOLF WUERTH GMBH AND CO KG ; ADOLF WUERTH GMBH AND CO KG 7118
KUENZELSAU DE ; ADOLF WURTH GMBH ; ADOLF WURTH GMBH AND CO KG

Inventor(s):^(std): FRIEDRICH RICHARD

Inventor(s): RICHARD FRIEDRICH ; FRIEDRICH RICHARD W 7707 ENGEN 5 DE

Designated states: AT AU BE BR CH DE FI FR GB IT JP KR LI LU NL SE SU US

International class B29C37/00 B29C59/00 B65D83/00 (Advanced/Invention) ;
(IPC 8-9) : B29C37/00 B29C59/00 B65D83/00 (Core/Invention)

International class B29C37/00 B29C49/00 B29C59/00 B65D37/00 B65D83/00
(IPC 1-7) :

CPC: B65D83/0061

European class: B65D83/00B1

US class: 222/135 222/386.5 264/503 264/512 264/83

[Classification Explorer](#)

Cited documents: US4524943 A, US4464980 A, US4446991 A, US4367187 A, US4324350 A, US4222499 A, US4153182 A, US4121737 A, US4052866 A, US3998363 A, US3992221 A, US3940026 A, US3907169 A, US3876115 A, US3862284 A, US3791557 A, US3767078 A, US3738538 A, US3698595 A, US3672543 A, US3083871 A, US3046601 A, US3028290 A, US2816690 A, US2313703 A, US1864621 A, JP58199132 A2, JP39008674 B1, JP38023027 B1, JP14008674, JP13023027, GB1463336 A, FR2316148 A1, FR2231194 A5, EP0100422 A1,

Forward Citations: WO14111939, WO14111939, US9758641, US9409698, US7896628, US6444155, US6412436, US5906787, US5582254, US5060700, US2015307258, US2006216178, US2005211795, JP6055727, JP2015013663, FR2644140, EP1026102, EP0914183, EP0914183, EP0388270, DE102010018915, DE102010018915, DE102010018888, DE102010018888,

Abstract:

Source: US5156309A PCT No. PCT/CH87/00083 Sec. 371 Date May 11, 1988 Sec. 102(e) Date May 11, 1988 PCT Filed Jul. 6, 1987 PCT Pub. No. WO88/00563 PCT Pub. Date Jan. 28, 1988. In a double chamber container, the inner chamber is formed by a tubular body in an elastic rubbery material stretched in order to expel a pressurized substance against its own elasticity. To obtain a precise stretching ratio of the hose (1) and to empty it as well as possible, the hose converges uniformly and its walls have a uniform thickness, even in their bottom part

(9). To attach the hose (1) to the container, a collar (11) which acts also as a seal is formed on the hose.

Title:

STOPPERS

Priority:

US19530393875 19531123

Family:

Publication number	Publication date	Application number	Application date
US2921708 A	19600119	US19530393875	19531123

Probable Assignee:

HENRI MARCEL

Assignee(s)^(std):

HENRI MARCEL

Inventor(s)^(std):

HENRI MARCEL

Inventor(s):

MARCEL HENRI

International class
(IPC 8-9):

B65D39/00 (Advanced/Invention);
B65D39/00 (Core/Invention)

CPC:

B65D39/0023 B65D39/0029 B65D2539/003

European class:

B65D39/00F3 B65D39/00F4 L65D339/02 L65D539/00Y2

US class:

215/230 215/296 215/364

Classification Explorer

Cited documents:

US494361 A, US2670869 A, US2669370 A, US2549404 A, US2526622 A, US2526225 A, US2196785 A, US1817218 A, US1340237 A, FR928158 A, CH74927 A,

Forward Citations:

USD639667, USD639657, USD637491, USD420589, US9314121, US9027774, US8833398, US7954515, US6976509, US5901873, US5573139, US5224515, US5172821, US4453618, US3982649, US3900122, US3198323, US2012241453, US2012192980, US2012045269, US2010206836, US2010006157, US2009188575, US2009139598, US2008011375, CN106256707,

Abstract:

Source: US2921708A (Claim 1) 1. A stopper for fitting into the neck of a bottle or jar, comprising a hollow cylindrical body moulded of polyethylene, said body having a thin cylindrical wall and the outer surface of the cylindrical wall having a plurality of circular reinforcing ribs moulded therearound which prevent longitudinal creases occurring in the thin wall of the body. When the stopper is inserted into the neck of a bottle or jar, an integral end wall closing the upper end of said cylindrical body, a head member separate from the body and made of a rigid transparent material with a cylindrical cavity, on its underside adapted to receive the upper end of the body means securing the head to the body, a sheet of material secured between the end wall of the body and the head and visible through the overlying transparent portion of the head.

304) Family number: 56017193 (WO14040200A1)

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Title: DECANTING SYSTEM FOR FLASK AND/OR BOTTLE TYPE CONTAINERS, WHICH CAN BE USED TO DISPENSE A HERMETICALLY ISOLATED LIQUID ADDITIVE FROM AN UPPER CONTAINER INTO A BOTTLE OR FLASK

Priority: WO2012CL00054 20120914

Publication number	Publication date	Application number	Application date
<u>WO14040200 A1</u>	20140320	WO2012CL00054	20120914

Probable Assignee: CANZIANI HOFFA MAURO ANDRES

Assignee(s):^(std): CANZIANI HOFFA MAURO ANDRES

Inventor(s):^(std): CANZIANI HOFFA MAURO ANDRES

Agent(s): BEUCHAT BARROS AND PFENNIGER DOS SA

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

International class B65D51/28 (Advanced/Invention)
(IPC 8-9):

CPC: B65D51/2864

[Classification Explorer](#)

Cited documents: WO07117070 A1, WO05112634 A2, US616303 A, US6152296 A, US507744 A, US490315 A, US4105142 A, NL7409078 A, DE20013272 U1, CA2718325 AA,

Abstract:

The invention relates to a decanting system for bottle and/or flask type containers, which can be used to dispense a hermetically isolated liquid from an upper container into a lower container, said system comprising: an upper container, a threaded connector, a sealing device, an O-ring and a flexible lock, as shown in figure 8.

0) UA45808U – CLOSING UNIT OF BOTTLE

305) Family number: 56485380 (UA45808U)

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Title: CLOSING UNIT OF BOTTLE

Priority: UA20090006308U 20090617

Family:	Publication number	Publication date	Application number	Application date
	<u>UA45808 U</u>	20091125	UA20090006308U	20090617

Probable Assignee: ALCOPACK FOREIGN PRIVATE PRODUCTION UNITARY CO

Assignee(s):^(std): ALCOPACK FOREIGN PRIVATE PRODUCTION UNITARY CO

Inventor(s):^(std): BIRIUKOV NIKOLAI PIETROVICH ; PAKHOMOV DMITRII IVANOVICH

International class B65D41/32 (Advanced/Invention);
(IPC 8-9): B65D1/00 B65D45/00 (Core/Invention)

[Classification Explorer](#)

Abstract:

Source: UA45808U A closing unit of a bottle contains a neck of bottle with a crown located in its upper part, which external and internal surfaces are formed by a solid of revolution with common axis, a through cylindrical holder installed on the neck of bottle, which lower part is made with possibility of tight coaxial installation on the neck of bottle, a cylindrical sliding dispensing unit with a through internal passage channel, a rotary element coaxially installed on the holder with limitation of its axial displacement and possibility of rotation around the longitudinal axis and directly contacting with each supporting protrusion of said dispensing unit. The dispensing unit is coaxially installed in the cavity of holder with possibility of vertical displacement during rotation of said rotary element. The upper part of the holder has at least one through cut of external side wall. The internal side of rotary element contains at least one stop lug. On the side of the crown of the neck of bottle at least one stop lug is made. On the internal cylindrical surface of the lower part of the holder at least two stop lugs are located.

0) ES1023271Y – TAPON PRECINTO PERFECCIONADO.

306) Family number: 17174489 (ES1023271Y)

© PatBase

Title: TAPON PRECINTO PERFECCIONADO.

Priority: ES19920003715U 19921217

Family:	Publication number	Publication date	Application number	Application date
	ES1023271 UA	19930616	ES19920003715U	19921217
	ES1023271 Y1	19940416	ES19920003715U	19921217
	ES1023271 YA	19940416	ES19920003715U	19921217

Probable Assignee: BORRELL BOER ASUNCION

Assignee(s):^(std) BORRELL BOER ; BORRELL BOER ASUNCION

International class
(IPC 8-9): [B65D39/04](#) (Advanced/Invention);
[B65D39/00](#) (Core/Invention)

International class
(IPC 1-7): [B65D39/04](#)

[Classification Explorer](#)

Abstract:

Source: ES1023271U TAPON PRECINTO PERFECCIONADO, DEL TIPO DE LOS QUE COMPRENDEN UNA CAPSULA (1) CON ROSCA INTERIOR (2) PARA ACOPLARSE EN UNA ROSCA (5) DEL GOLLETE (3) DE UN FRASCO (4), INCLUYENDOSE ADEMAS UN ANILLO PRECINTO (6) VINCULADO AL BORDE INFERIOR DE LA CAPSULA (1) POR MEDIO DE UNOS PEQUEÑOS APÉNDICES (7), CARACTERIZADO PORQUE EL ANILLO PRECINTO (6) INCORPORA UNOS RESALTES O REGRUESAMIENTOS INTERNOS (8) EQUIDISTANTES ANGULARMENTE, HACIENDO TOPE LOS MISMOS, EN UN SALIENTE ANULAR (9) ESTABLECIDO EN LA BASE DEL GOLLETE (3), DEFINIENDO DICHOS REGRUESAMIENTOS (8), PREFERENTEMENTE EN FORMA DE SEGMENTO CIRCULAR, UN DIENTE DISCONTINUO. Plug improved seal, OF THE TYPE COMPRISING A capsule (1) with internal thread (2) FOR ENGAGING IN A thread (5) of the neck (3) of a bottle (4), ALSO INCLUDING A ring seal (6) LINKED TO THE LOWER EDGE OF THE capsule (1) BY MEANS OF A SMALL appendages (7), characterized in that the seal ring (6) incorporates PROJECTIONS OR INTERNAL THICKENINGS (8) ANGULARLY equidistant, ABUTTING THEREOF, IN AN ANNULAR projection (9) PROVIDED IN THE BASE OF THE NECK (3), defining said thickenings (8), PREFERABLY IN THE FORM OF CIRCULAR segment, a tooth to be discontinuous.

0) GB673619A – IMPROVEMENTS IN BOTTLE SEALING DEVICES

307) Family number: 19711573 (GB673619A)

© PatBase

Title: Improvements in bottle sealing devices

Priority: GB19500024254 19501004

Family:	Publication number	Publication date	Application number	Application date
	<u>GB673619 A</u>	19520611	GB19500024254	19501004

Probable Assignee: COTY INC

Assignee(s):^(std): COTY INC

Inventor(s):^(std): MARTIN JEAN RENE LUCIEN

International class
(IPC 8-9): B65D39/04 (Advanced/Invention);
B65D39/00 (Core/Invention)

International class
(IPC 1-7): B65D39/04

CPC: B65D39/04

European class: B65D39/04

[Classification Explorer](#)

Forward Citations: GB2226743, GB2226743,

Abstract:

Source: GB673619A 24254/50. Class 125(iii). An internal stopper for a scent bottle comprises an integrally formed member of resilient plastic material, e.g. polyethylene, comprising a body 10 having a tapered end 12, a shoulder 11 and a conical member 13 which urges the body 10 against the bottle wall. The member 13 may face outward or inward.

308) Family number: 21407233 (FR1422230A)

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Title: DISPOSITIF UNITAIRE DE BOUCHAGE ET SURBOUCHAGE UNIT CLOSURE DEVICE AND overcap (Machine translation)**Priority:** FR19640994331 19641109

Family:	Publication number	Publication date	Application number	Application date
	FR1422230 A	19651224	FR19640994331	19641109

Inventor(s):^(std): BOUSCARY

International class B65D41/32 (Advanced/Invention);
 (IPC 8-9): B65D41/32 (Core/Invention)

International class B65D39/00
 (IPC 1-7):

CPC: B65D41/325**European class:** B65D41/32B[Classification Explorer](#)**Forward Citations:** US4032029, EP0564755,**Abstract:**

Source: FR1422230A (Claim 1) 1. RESUME La presente invention comprend notamment: 1" Un dispositif unitaire de bouchage et de surbouchage constitue par une piece en matiere plastique moulee comportant une partie superieure relativement epaisse dans laquelle est fixe de toute maniere connue un bouchon de liege et une partie inferieure en forme de jupe jouant le role de la jupe d'une – capsule de surbouchage, cette partie superieure et cette jupe etant reliees entre elles par une zone de moindre resistance destinee a en permettre la separation; 20 Dans un dispositif du genre specifie sous 1", le fait que la partie superieure est reliee a la jupe par l'intermediaire de deux zones amincies delimitant entre elles une languette a extremités independantes, dont l'une des extremités munie d'un renflement interne est a l'aplomb d'une fenetre amenee dans le dispositif; 3 Dans un dispositif du genre specifie sous 1" et 20, le fait que la partie superieure est munie interieurement d'une serie de voiles radiaux delimitant un espace cylindrique dans lequel le bouchon est fixe de toute maniere connue; 4" Dans un dispositif du genre specifie sous 1" a 3, le fait que la jupe est munie interieurement vers sa base d'un moyen de retenue pour empecher le retrait du dispositif de la bouteille, sous l'action d'une traction, par butee de ce moyen sur le rebord exterieur du goulot; 5 Dans un dispositif du genre specifie sous 4", le fait que ce moyen de retenue est constitue par des projections internes disposees a des intervalles angulaires egaux; – 60 Dans un dispositif du genre specifie sous 10 a 5", le fait que ce dispositif est muni d'une zone de moindre resistance disposee suivant l'une des generatrices de la jupe en dessous de la zone de moindre resistance separant la jupe de la portion superieure du dispositif; 7" Dans un dispositif du genre specifie sous 60, le fait que la jupe comprend suivant deux generatrices des zones amincies delimitant entre elles une languette aboutissant a la zone amincie horizontale inferieure entre bouchon et jupe et munie d'une protuberance exterieure a son extremité superieure.

Machine translation: (Claim 1) 1. SUMMARY The present invention includes: 1 "A unitary device for sealing and closure constitutes a piece of plastic with a fitted molded relatively thick upper part which is fixed in any known manner a plug of cork and a lower portion shaped skirt playing the role of a skirt – overcap, this upper part and the skirt being joined together by a zone of lesser resistance FOR allow separation; 20 In a device of the kind specified in 1 ", the that the upper part is a skirt reliee through the intermediary of two thin zones delimiting between them a tongue ends independent, one of whose ends equipped with an internal bulge is at the base of a window in amenee the device; 3 In a device of the kind specified in 1 "and 20, the fact that the upper part is provided internally with a series of radial webs delimiting a cylindrical space in which the cap is fixed in any known manner, 4" In a device of the kind specified in 1 "to 3, in that the skirt is provided internally to the base of a retaining means to prevent removal of the device from the bottle, under the action of traction by abutment of This means the outside edge of the neck, 5 In a device of the type specifies under 4 ", the fact that retaining means is constituted by internal projections arranged at equal angular intervals – 60 In a device of the type specifies under 10 a 5 ", the fact that this device is provided with a zone of lesser resistance disposed along one of the generatrices of the skirt below the zone of reduced resistance separating the upper portion of the skirt of the device; 7" In a device of the kind specified at 60, in that the skirt includes along two generatrices thinned zones delimiting between them a tongue leading to the horizontal lower thinned region between stopper and provided with a skirt and outer protuberance at its upper end.

309) Family number: 29643920 (GB403627A)

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Title: Improvements in or relating to the art of closing jars, bottles and the like**Priority:** GB19320016850 19320614

Family:	Publication number	Publication date	Application number	Application date
	GB403627 A	19331214	GB19320016850	19320614
	GB404951 A	19340115	GB19330034405	19320614

Probable Assignee: SUTAX LTD**Assignee(s)^{:(std)}:** SUTAX LTD ; TOM SUTCLIFFE**Assignee(s):** SUTAX LIMITED

International class [B65D39/08](#) [B65D41/02](#) [B65D41/04](#) (Advanced/Invention) ;
(IPC 8-9) [B65D39/00](#) [B65D41/02](#) [B65D41/04](#) (Core/Invention)

International class [B65D41/04](#) [B65D41/22](#)
(IPC 1-7)

CPC: [B65D39/08](#) [B65D41/02](#) [B65D41/0457](#)**European class:** [B65D39/08](#) [B65D41/02](#) [B65D41/04D3](#)[Classification Explorer](#)**Forward Citations:** US3374913, US3285452,**Abstract:**

Source: GB403627A 16850. [Class 125 (iii).] A cap 1 for a bottle and c. has a depending skirt 2 and a packing ring 4 of rubber and c. The skirt is constricted on an annulus 5 to form a hermetic seal. The cap may be milled or scored in the vicinity of the annulus 5 to facilitate the closing operation. The cap is stated to be capable of re-sealing the container when replaced manually. A recess 10 may be provided around the mouth of the bottle and c., and the edge of the cap may be flanged or curled as at 13. A rim or shoulder 16 may be provided in the container, to facilitate opening with a coin, knife and c.

Title: FLACON DE VERRE A EFFET VISUEL CHANGEANT**Priority:** FR20050001163 20050128

Family:	Publication number	Publication date	Application number	Application date
	FR2881421 A1	20060804	FR20050001163	20050128
	FR2881421 B1	20070817	FR20050001163	20050128

Probable Assignee: SAVERGLASS SOC PAR ACTIONS SIM**Assignee(s):^(std):** SAVERGLASS SOC PAR ACTIONS SIM**Assignee(s):** SAVERGLASS SOC PAR ACTIONS SIMPLIFIEE ; SAVERGLASS SOCIETE PAR ACTIONS SIMPLIFIEE ; SAVERGLASS**Inventor(s):^(std):** VINCENT LUDOVIC**Inventor(s):** LUDOVIC VINCENT**Agent(s):** NOVAGRAAF TECHNOLOGIES CBT BALLOT

International class [B65D23/02 C03B31/00](#) (Advanced/Invention) ;
^(IPC 8-9) [B65D23/00 C03B31/00](#) (Core/Invention)

CPC: [B65D23/14 C03B9/31 C03B31/00](#)**European class:** [B65D23/14 C03B31/00 C03B9/31](#)[Classification Explorer](#)**Cited documents:** WO03066449 A1, US754168 A, US4105428 A, US3792988 A, US3468648 A,**Forward Citations:** WO09042171, USD740119, USD724947, USD723923, USD706635, USD704560, USD704064, USD704063, USD658999, US9682881, US9440761, US9370892, US9339967, US9156719, US8707735, US8591632, US8333287,**Abstract:**

A transparent glass bottle (1), made on an automatic or semi-automatic industrial machine, defines a container (2) with a bottom (3) and a lateral wall (4) with external (5) and internal (6) surfaces. The thickness of the lateral wall has a variable thickness (e – e') obtained by the presence of a relief (7) or a hollow on the internal surface whilst the external surface is smooth, such that the internal pattern has a changing visual effect as a function of the color of the liquid contents, according to whether it covers the pattern or not.

311) Family number: 3640542 (FR2381103A)

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Title: RECIPIENT POUR CULTURE BIOLOGIQUE FLASK FOR CULTIVATING BIOLOGICAL CULTURE PARTIC. FOR BLOOD TESTS – USES SOLID AND LIQ. CULTURE MEDIA SIMULTANEOUSLY IN CONTROLLED ATMOS.

Priority: FR19770005485 19770218

Family:	Publication number	Publication date	Application number	Application date
	<u>FR2381103 A1</u>	19780915	FR19770005485	19770218
	<u>FR2381103 B1</u>	19821210	FR19770005485	19770218

Probable Assignee: PASTEUR INST

Assignee(s):^(std): PASTEUR DE LILLE INST ; PASTEUR INST ; PASTEUR INSTITUT

Assignee(s): PASTEUR DE LILLE INSTITUT

Inventor(s):^(std): PLICHON BERNARD

Inventor(s): BERNARD PLICHON

International class
(IPC 8-9): B01L3/00 B65D51/00 C12M1/24 (Advanced/Invention);
B01L3/00 B65D51/00 C12M1/24 (Core/Invention)

International class
(IPC 1-7): B65D81/18 B65D85/50 C12K1/10

CPC: B01L3/508 B65D51/002 C12M23/08 C12M23/38

European class: B01L3/00C2 B01L3/508 B65D51/00B C12M23/08 C12M23/38

[Classification Explorer](#)

Cited documents: US2992974 A, DE1959902 A1,

Forward Citations: WO14070513, US9428287, FR2509750, EP2483386, EP0494333, EP0300666, EP0176719, EP0020961,

Abstract:

Source: FR2381103A L'invention concerne un recipient pour une culture biologique simultanee sur milieux solide et liquide. Le recipient delimite interieurement un volume susceptible de recevoir le milieu liquide a sa partie inferieure et le milieu solide; on peut y etabli une ambiance gazeuse determinee. Il est caracterise en ce qu'il comporte des moyens pour recevoir ledit milieu solide et pour le retenir dissocie du milieu liquide a l'interieur dudit volume, au-dessus du niveau maximal du milieu liquide mais en contact avec la meme ambiance gazeuse que ce dernier. Application notamment a la culture d'un prelevement biologique, par exemple sanguin ou de liquide cephalo-rachidien, sur un milieu de culture en phase liquide et a la surface d'un milieu de culture gelose, en aerobie ou anaerobie, notamment dans un but d'analyse. The flask is of the type in which a culture is cultivated simultaneously on both solid and liq. media. The liq. medium settles in the bottom of the flask while the solid medium coats an interior surface of the flask. A controlled atmos. of vacuum or gas takes up flask space not occupied by media. Improvement is that the flask is provided with a cavity in which solid medium is retained clear of liq. at its max. level but still in the controlled atmos. The cavity is pref. formed in the inner face of a stopper which plugs the neck of a flask. The cavity pref. has projection, e.g. screw threads, which anchor the solid medium in the cavity as it sets from a liq. poured into the cavity. The cavity is pref. on the inner side of a flat, external flange on the stopper, the stopper flange seating onto an annular joint on top of the neck. The stopper pref. has an axial passage sealed with a diaphragm of rubber or similar material which can be pierced by a perfusion needle. Used for cultivation of biological samples, esp. blood samples and samples of cephalo-rachidian liq. for medical analysis. There is no danger of the solid medium being softened by washing action of the liq. The solid medium is clearly visible without interference from liq. or diffraction problems.

312) Family number: 36992438 (GB191102391A)

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Title: Improvements in Anti-fraud Bottles and other Containers.**Priority:** 19110130

Family:	Publication number	Publication date	Application number	Application date
	<u>GB191102391 A</u>	19110824		00000000

Probable Assignee: DONGES JACOB**Assignee(s):^(std):** DONGES JACOB**Assignee(s):** JACOB DONGES**Inventor(s):^(std):** DONGES JACOB**Inventor(s):** JACOB DONGES

International class B65D49/04 (Advanced/Invention);
 (IPC 8-9): B65D49/00 (Core/Invention)

CPC: B65D49/04**European class:** B65D49/04[Classification Explorer](#)**Abstract:**

Source: GB191102391A 2391. Donges, J. Jan. 30. Bottles, non-refillable.—A fragile cup Q, Fig. 1, of glass is retained in a bottle neck by spring rings M above a ball valve F. A cork or rubber sleeve N is provided. Figs. 3 and 4 show modifications of the spring ring.

0) GB191300627A – IMPROVEMENTS IN NON-REFILLABLE BOTTLES.

313) Family number: 37022204 (GB191300627A)

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Title: Improvements in Non-refillable Bottles.

Priority: 19130108

Family:	Publication number	Publication date	Application number	Application date
	<u>GB191300627 A</u>	19130925		00000000

Probable Assignee: GROVE WALTER RICHARD

Assignee(s):^(std): GROVE WALTER RICHARD

Assignee(s): WALTER RICHARD GROVE

Inventor(s):^(std): GROVE WALTER RICHARD

Inventor(s): WALTER RICHARD GROVE

International class B65D49/00 (Advanced/Invention);
(IPC 8-9): B65D49/00 (Core/Invention)

CPC: B65D49/00

European class: B65D49/00

[Classification Explorer](#)

Abstract:

Source: GB191300627A 627. Grove, W. R. Jan. 8. Bottles, non-refillable.—Relates to the type of stopper described in Specification 5090/11, and consists in the application thereto of an external metallic capsule and internal baffles. A stopper of the type mentioned, having a liquid-outlet chamber a, Fig. 1, separated from an air-inlet chamber b by a vertical diaphragm, is secured to a bottle neck by a metallic capsule q as shown. The stopper has a collar p and washer o, or may simply rest on a washer on the bottle neck. A liquid-outlet v is controlled by a flap mica valve c, which may be weighted. An air-inlet d is guarded by a pervious diaphragm e or by a valve. The valves are guarded by abutments j, Fig. 2, on the casing and k on the cover. The parts j are placed under outlet openings and very small inlet openings in the cover f. In a slight modification, the vertical diaphragm is shown carried higher than in Fig. 2, and the cover f is made in two sections.

314) Family number: 10215471 (US4747518A)

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Title: Squeeze bottle self-closing and venting dispensing valve**Priority:** US19860936848 19861202

Family:	Publication number	Publication date	Application number	Application date
	<u>US4747518 A</u>	19880531	US19860936848	19861202

Probable Assignee: LAAUWE ROBERT H**Assignee(s):^(std):** LAAUWE ROBERT H**Assignee(s):** POLITE L JOHN JR ; ESSEX CHEMICAL CORP ; INOPAK LTD ; L JOHN POLITE JR**Inventor(s):^(std):** LAAUWE ROBERT H

International class B05B11/04 B65D35/30 B65D47/20 B65D50/06 B65D51/16 (Advanced/Invention);
^{(IPC 8-9):} B05B11/04 B65D35/24 B65D47/04 B65D50/00 B65D51/16 (Core/Invention)

International class B05B11/04 B65D47/32
^{(IPC 1-7):}

CPC: B05B11/047 B65D35/30 B65D47/2081 B65D50/061 B65D51/1661**European class:** B05B11/04E B65D35/30 B65D47/20E4B B65D50/06B B65D51/16D3**US class:** 215/307 222/153 222/153.14 222/213 222/494 222/497[Classification Explorer](#)**Cited documents:** US4625899 A, US4474314 A, US4226342 A, US4163500 A, US4162746 A, US3739941 A, US3149757 A, US2711271 A,

Forward Citations: WO9526306, WO13019858, WO12117409, USD477701, USD432747, USD429990, USD428226, USD427401, USD425274, USD420561, US9706826, US9193506, US7753225, US7703634, US7163349, US7144173, US6948873, US6910823, US6854911, US6814519, US6758376, US6669391, US6663306, US6612344, US6595437, US6491069, US6446844, US6427881, US6427730, US6386404, US6328543, US6290108, US6223956, US6206058, US6170720, US6142750, US6062435, US6050435, US5988920, US5950878, US5597096, US5325999, US5255826, US5169035, US5161718, US5005737, US2007080177, US2006131327, US2006113276, US2006060591, US2005269353, US2005087555, US2004226123, US2004086320, US2004007287, US2003127108, US2003126709, US2002166573, FR2660877, EP3034426, EP0452196, AU704702, AU704702,

Abstract:

Source: US4747518A A dispensing device for a squeeze bottle has an internal continuously circular vent valve seat. A continuously circular elastic vent valve has one side seating on the seat and an opposite side exposed to the inside of the device. The device has a self-closing dispensing valve which opens upon squeezing the bottle. The device has a lock to prevent unintentional opening of the dispensing valve.

315) Family number: 20077071 (GB415805A)

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Title: Improvements in stoppers for bottles and like vessels**Priority:** GB19330006725 19330306

Family:	Publication number	Publication date	Application number	Application date
	<u>GB415805 A</u>	19340906	GB19330006725	19330306

Probable Assignee: WILLIAM THOMAS**Assignee(s):**^(std): WILLIAM THOMAS

International class B65D47/28 (Advanced/Invention);
^{(IPC 8-9):} B65D47/04 (Core/Invention)

International class B65D47/26
^{(IPC 1-7):}

CPC: B65D47/283**European class:** B65D47/28B[Classification Explorer](#)**Abstract:**

Source: GB415805A 415,805. Stoppers for bottles. THOMAS, W., 7, New Wharf Road, King's Cross, London. March 6, 1933, No. 6725. [Class 125 (iii).] A stopper for a bottle and c. comprises a hollow member 1 adapted to make a push-fit on the neck 2 of the bottle, an air inlet aperture 4 and a diametrically opposed slot 8 in the wall of the stopper. The slot 8 extends from the crown of the stopper to increase the resilience of the wall thereof. The lower edge 9 of the stopper is intumed. Packing 3 is provided within the stopper.

316) Family number: 29644881 (GB476317A)

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Title: Improvements relating to closures for bottles, jars or like containers**Priority:** GB19360015845 19360605

Family:	Publication number	Publication date	Application number	Application date
	<u>GB476317 A</u>	19371206	GB19360015845	19360605

Probable Assignee: PAUL ADOLF HOPF**Assignee(s):**^(std): PAUL ADOLF HOPF

International class B65D45/10 (Advanced/Invention);
^{(IPC 8-9):} B65D45/00 (Core/Invention)

International class B65D47/08
^{(IPC 1-7):}

CPC: B65D45/10**European class:** B65D45/10[Classification Explorer](#)**Abstract:**

Source: GB476317A 15845. [Class 125 (iii)] A closure for a bottle and c. comprises a cap 24 pivotally mounted in a screwthreaded sleeve 20 which engages the container. The cap is held by resiliently mounted detents 28, which engage a shoulder on the bottle to prevent the complete removal of the cap. Specification 455,561 is referred to.

Title: GLASS BOTTLE AND METHOD FOR MAKING SAME
Priority: EP20050807818 20051004 FR20040052281 20041006 WO2005FR02439 20051004
Family:

Publication number	Publication date	Application number	Application date
<u>DE602005048304 D1</u>	20160225	DE200560048304T	20051004
<u>EP1809543 A1</u>	20070725	EP20050807818	20051004
<u>EP1809543 B1</u>	20160113	EP20050807818	20051004
<u>FR2876083 A1</u>	20060407	FR20040052281	20041006
<u>FR2876083 B1</u>	20080411	FR20040052281	20041006
<u>WO06037889 A1</u>	20060413	WO2005FR02439	20051004

Probable Assignee: SHISEIDO INTERNAT FRANCE SOC P

Assignee(s):^(std): RONSIN HERVE ; SHISEIDO INT FRANCE ; SHISEIDO INT FRANCE SOC P ; SHISEIDO INTERNAT FRANCE ; SHISEIDO INTERNAT FRANCE SOC P

Assignee(s): SHISEIDO INTERNATIONAL FRANCE ; SHISEIDO INTERNATIONAL FRANCE SOCIETE PAR ACTIONSSIMPLIFIEE ; SHISEIDO INTERNATIONAL FRANCE SOCIETE PAR ACTIONSS ; SHISEIDO INT FRANCE SOC PAR ACTIONSSIMPLIFIEE

Inventor(s):^(std): RONSIN HERVE

Agent(s): PUSCHMANN BORCHERT BARDEHLE PATENTANWALTE PARTNERSCHAFT MBB; CAPRI

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 KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class
 (IPC 8-9): A45D34/02 B65D1/02 B65D13/02 B65D6/00 C03C27/06 (Advanced/Invention);
A45D34/00 B65D1/02 B65D13/00 B65D6/00 C03C27/06 (Core/Invention)

CPC: A45D33/18 A45D34/02 B65D13/02 C03C27/06

European class: A45D34/02 B65D13/02 C03C27/06 K45D33/18

[Classification Explorer](#)

Cited documents: WO9312049 A1, US2749668 A, US1647175 A, FR877132 A, DE29800226 U1, DE29800226, CH508523 A, CH508523,

Forward Citations: EP3053842,

Abstract:

The invention concerns a glass bottle comprising at least two glass parts (1, 2; 1', 2; 1a, 1b, 1c, 2'') to be assembled together, said parts defining together a useful volume for receiving a fluid product, such as a perfume, said bottle defining an opening (150; 450). The invention is characterized in that said parts are sealingly assembled by bonding with a bonding material (3) having a melting point lower than the melting point of the glass, and in that the useful volume contains at least one three-dimensional decorative element.

0) DE202007017383U1 – VERSCHLUSS FUER EINE TRINKFLASCHE CATCH FOR A D...

318) Family number: 41582483 (DE202007017383U1)

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Title: Verschluss fuer eine Trinkflasche Catch for a drinking bottle (Machine translation)

Priority: DE200720017383U 20071213

Family:	Publication number	Publication date	Application number	Application date
	<u>DE202007017383 U1</u>	20080228	DE200720017383U	20071213

Probable Assignee: TV PRODUCTS HK LTD

Assignee(s):^(std): TV PRODUCTS HK LTD

International class B65D47/20 B65D47/24 B65D47/26 B65D47/28 B65D47/32 (Advanced/Invention);
(IPC 8-9); B65D47/04 (Core/Invention)

CPC: B65D47/243 B65D47/32 B65D55/02

European class: B65D47/24A2 B65D47/32 B65D55/02

[Classification Explorer](#)

Forward Citations: WO17064594, EP3156347,

Abstract:

Source: DE202007017383U1 (Claim 1) 1 Verschluss fuer eine mit einer zu besprudelnden Fluessigkeit befuellbare und an eine Besprudelungsvorrichtung anbringbare Trinkflasche, wobei der Verschluss ein Basisteil (3), das sich an einen geeigneten Flaschenhals befestigen laesst, und ein Mundstueck (1) aufweist, das mit den Zaehnen eines Benutzers aus einer Verschlussstellung in eine oeffnungsstellung relativ zum Basisteil (3) verschiebbar ist, dadurch gekennzeichnet, dass der Verschluss ein manuell zu betaeetigendes Einrastsystem (19, 21) zur Arretierung des Mundstuecks (1) und zum gasdichten Verschliessen eines unter ueberdruck stehenden Innenvolumens der Trinkflasche aufweist. (Claim 1) 1 catch for with a too besprudelnden liquid fillable and to a Besprudelungsvorrichtung a attachable drinking bottle, whereby the catch a base (3), which to a suitable bottle neck fasten lets itself, and a mouthpiece (1) exhibits, which is with the teeth of a user from a Verschlussstellung into an open position relative to the base (3) adjustable, by the fact characterized that the catch exhibits an engaging system which can be operated manually (19, 21) for the locking of the mouthpiece (1) and to gas densities locking one under positive pressure of standing interior volume of the drinking bottle.

Title: A CONTAINER**Priority:** AU20060906414 20061116

Family:	Publication number	Publication date	Application number	Application date
	<u>WO08058346 A1</u>	20080522	WO2007AU01769	20071116

Probable Assignee: JOYCE KARL**Assignee(s):^(std):** JOYCE KARL**Inventor(s):^(std):** JOYCE KARL**Agent(s):** PHILLIPS ORMONDE AND FITZPATRICK

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class B65D25/10 B65D5/50 (Advanced/Invention);
 (IPC 8-9): B65D25/10 B65D5/50 (Core/Invention)

CPC: B65D5/10 B65D5/48024 B65D5/48026**European class:** B65D5/10 B65D5/48B B65D5/48B1[Classification Explorer](#)**Cited documents:** WO0048918, DE29621264 U,**Abstract:**

A container (10) including an outer carton (11), a first article support (12) and a second article support (13). The first article support (12) supports one end portion of an article, while the second article support (13) supports a second end portion of the same article. The first and second article supports (12) and (13) are separate and are formed from sheet and each is folded into a supporting condition prior to insertion into the outer carton (10).

320) Family number: 10266044 (US4762241A)

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Title: CONTAINER WITH SUPPLEMENTAL OPENING FOR EXTRACTING CONTENTS**Priority:** US19870011007 19870205

Family:	Publication number	Publication date	Application number	Application date
	<u>US4762241 A</u>	19880809	US19870011007	19870205

Probable Assignee: LANG RICHARD R**Assignee(s):^(std):** LANG RICHARD R**Inventor(s):^(std):** LANG RICHARD R

International class B65D1/06 (Advanced/Invention);
 (IPC 8-9): B65D1/06 (Core/Invention)

International class B65D39/00
 (IPC 1-7):

CPC: Y10S220/916 B65D1/06**European class:** B65D1/06**US class:** 215/1R 215/250 215/306 215/329 215/370 215/378 215/380 220/745 220/89.2 220/916 222/541.2 222/545[Classification Explorer](#)**Cited documents:** US608864 A, US4121103 A, US3596829 A, US3124264 A, US2838768 A, US2779472 A, US2203266 A, US1348062 A, US1019022 A,

Forward Citations: WO15033002, USD569271, USD463716, US8689998, US8231026, US7674248, US7585292, US7115115, US6780637, US6673055, US6672477, US6626877, US6551672, US6494869, US6398050, US6368310, US6358232, US6244311, US5746265, US5472112, US5062549, US2017028419, US2013026125, US2009261098, US2009242588, US2008302831, US2007284332, US2007090107, US2006243756, US2004140240, US2004007280, US2003159952, US2003143728, US2002074367, GB2419338, GB2344808,

Abstract:

Source: US4762241A A container especially for use with viscous substances has both a primary opening and a supplemental opening. The primary opening is at an upper point in the container, whereby contents are extracted due to gravity, when tilting the container. A supplemental opening with removable closure is provided at a lowermost point in the container, for also extracting contents under gravity feed. The supplemental opening is preferably located at the end of a slope, causing material in the container to accumulate over the supplemental opening. Particular removable closures include plugs, tethered plugs and frangible panels.

321) Family number: 11485959 (WO0002795A1)

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Title: DUAL VIAL CONNECTING SYSTEM**Priority:** WO1998EP04290 19980710

Family:	Publication number	Publication date	Application number	Application date
	AU199888601 A1	20000201	AU19980088601	19980710
	AU199888601 A5	20000201	AU19980088601	19980710
	WO0002795 A1	20000120	WO1998EP04290	19980710

Probable Assignee: PENTAPHARM AG**Assignee(s):^(std):** KLUG FRANZ A ; MOISIO FRANCK ; PENTAPHARM AG**Assignee(s):** PENTAPHARM A G**Inventor(s):^(std):** KLUG FRANZ A ; MOISIO FRANCK**Inventor(s):** FRANCK MOISIO ; FRANZ A KLUG

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

International class
 (IPC 8-9): [A61J1/00 A61J1/20 B65D81/32](#) (Advanced/Invention);
[A61J1/00 A61J1/14 B65D81/32](#) (Core/Invention)

International class
 (IPC 1-7): [A61J1/00 B65D81/32](#)

CPC: [A61J1/2089 B65D81/3211 A61J1/201](#)**European class:** [A61J1/00M2 A61J1/20B B65D81/32B1 K61J1/20A2A](#)[Classification Explorer](#)**Cited documents:** FR2682088 A1, FR2427960 A1, FR2188565 A5, EP9704660, EP0793954 A1, EP0283629 A1,**Forward Citations:** WO05068320,**Abstract:**

For temporary connection of two containers (1, 5) such as vials, bottles, etc., with guaranteed tightness thanks to a two piece tubular connecting device (6, 9) having either a perforable plastic membrane (12) located between its upper piece (6) and the lower piece (9) including a first sealing ring (16) fixed around a plastic skirt (15) located under the bottom of the upper piece, and a second sealing ring (17) fixed inside the upper piece, or alternatively, a rubber stopper (3) in the vial neck covered by the two piece tubular connecting device, the whole assuring complete tightness of the system when stored and when used for reconstitution of the products.

322) Family number: 18019130 (US4461391A)

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Title: Tamper-resistant screw closure**Priority:** CA19820416584 19821129 GB19810036095 19811130

Family:	Publication number	Publication date	Application number	Application date
	AU198290952 A1	19830609	AU19820090952	19821129
	AU551264 B2	19860424	AU19820090952	19821129
	CA1189024 A1	19850618	CA19820416584	19821129
	DE3265286 D1	19850912	DE19823265286	19821122
	DK154062 B	19881010	DK19820005269	19821126
	DK154062 C	19890227	DK19820005269	19821126
	DK526982 A	19830531	DK19820005269	19821126
	EP0080846 A1	19830608	EP19820306203	19821122
	EP0080846 B1	19850807	EP19820306203	19821122
	ES285715 U	19860301	ES19820285715U	19821130
	JP3008153 U1	19910125	JP19900060575U	19900607
	JP58112959 A2	19830705	JP19820210536	19821130
	US4461391 A	19840724	US19820444742	19821126
	ZA8208757 A	19830928	ZA19820008757	19821129

Probable Assignee: JOHNSEN JORGENSEN PLASTICS LTD**Assignee(s):^(std):** JOHNSEN JORGENSEN PLASTICS LTD

Assignee(s): JOHNSEN AND JORGENSEN PLASTICS LIMITED ; JOHNSEN AND JORGENSEN PLASTICS LIMITED COMPANY ; JOHNSEN AND JORGENSEN PLASTICS LTD ; JOHNSON AND JORGENSEN PLASTICS LIMITED ; JOHNSON AND JORGENSEN PLASTICS LTD ; DAVIS EUGENE E ; JIYONSUN ANDO JIYOOGENSUN BURASUTEITSUKUSU LTD ; JOHNSEN AND JOGENSEN LTD ; JOHNSEN AND JORGENSEN PLASTICS CO LTD

Inventor(s):^(std): DAVIS EUGENE E ; DAVIS EUGENE EDWARD ; EUGENE EDWARD DAVIS ; YUUJIN EDOWAADO DEIBISU

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; ADE AND CO**Designated states:** BE DE FR GB IT NL SE

International class [B43K24/16](#) [B43K27/08](#) [B65D41/34](#) (Advanced/Invention);
^(IPC 8-9) [B65D41/34](#) (Core/Invention)

International class [B65B](#) [B65D41/04](#) [B65D41/32](#) [B65D41/34](#) [B65D41/38](#) [B65D53/02](#) [B65D55/12](#)
^(IPC 1-7)

CPC: [B65D41/3452](#)**European class:** [B65D41/34D1A](#)**US class:** [215/252](#)[Classification Explorer](#)

Cited documents: US4352436 A, US4299328 A, US3329295 A, JP54160449 B4, JP54160449 B4, JP54160449 A2, FR2298255 A7, FR1581775 A, FR1536459 A,

Forward Citations: WO9741041, WO9741041, US9399534, US7413097, US7228979, US6991123, US6793082, US6705479, US6527132, US6464096, US6419101, US6325225, US6223919, US6089390, US5913436, US5810184, US5402901, US5271512, US5027964, US4940168, US4930647, US4871077, US4844272, US4813563, US4726483, US4715506, US4664278, US4625875, US4573601, US4541536, US4529096, US4503986, US4461390, US2010178148, JP62094556, JP58130946, JP3019862, GB2202217, GB2163413, GB2140787, FR2565558, EP0907573, EP0882656, EP0729894, EP0251663, EP0219946, EP0155920, EP0133348, EP0133348, EP0127943, EP0120644, EP0111419, EP0103050, EP0096351,

Abstract:

Source: US4461391A A tamper-resistant screw closure for a bottle or the like having an external screw thread in which a cap with a top and a depending skirt and a tamper-resistant band below the skirt has spaced apart frangible tongues connecting with the skirt and the tamper-resistant band and the tamper-resistant band has internal projections engaging below the external projecting means on the bottle to resist movement of the band when the closure is unscrewed so that the frangible tongues break to show that the closure has been removed.

0) GB187555A – IMPROVEMENTS IN BOTTLES AND STOPPERS THEREFOR

323) Family number: 18360368 (GB187555A)

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Title: Improvements in bottles and stoppers therefor

Priority: GB19220013923 19210419

Family:	Publication number	Publication date	Application number	Application date
	<u>GB187555 A</u>	19221019	GB19220013923	19210419

Probable Assignee: ALBERT ALEXIS GIRAUD

Assignee(s):^(std): ALBERT ALEXIS GIRAUD ; FREDERICK HEWETT

International class B65D41/04 (Advanced/Invention);
(IPC 8-9): B65D41/04 (Core/Invention)

International class B65D41/06
(IPC 1-7):

CPC: B65D41/0471

European class: B65D41/04E

[Classification Explorer](#)

Abstract:

Source: GB187555A 187,555. Hewett, F., and Giraud, A. A. April 19, 1921. Cap-stoppers, bayonet-joint. -In bottles and stoppers therefor in which the inside of the stopper is formed with projections which engage external projections on the bottle neck, stops being provided at the ends of inclines on the underside of the external projections to prevent the stopper from being turned too far, the bead surrounding the upper edge of the neck is interrupted with grooves and is formed on its underside with inclined faces towards which the grooves are inclined. The underside of the bead L is formed with inclined surfaces M towards which grooves K<1> formed in the bead are inclined, stops N engaging the internal projections P<1> on the stopper to prevent it from being turned too far. The portions of the inclined surfaces M adjacent the stops N may be made parallel to the top of the bead and depressions may be formed in the neck of the bottle to prevent the stopper from working loose.

324) Family number: 18528790 (GB228000A)

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Title: Device relating to corks, stoppers or lids for bottles, jars and the like**Priority:** GB19240001364 19240117

Family:	Publication number	Publication date	Application number	Application date
	<u>GB228000 A</u>	19250129	GB19240001364	19240117

Probable Assignee: WILLIAM LUCAS RICHARDSON**Assignee(s):**^(std) JOHN ALGERTON FURNESS ; WILLIAM LUCAS RICHARDSON

International class B65D45/16 (Advanced/Invention);
^{(IPC 8-9):} B65D45/00 (Core/Invention)

International class B65D41/04
^{(IPC 1-7):}

CPC: B65D45/16**European class:** B65D45/16[Classification Explorer](#)**Forward Citations:** US7284683, FR2864043, EP1488856, EP1488856,**Abstract:**

Source: GB228000A 228,000. Furness, J. A., and Richardson, W. L. Jan. 17, 1924. Fittings to indicate bottles containing poisons and c.—In an attachment for bottles, jars, and c. of the kinds in which a guard member is adapted to surround or enclose, wholly or partially, a cork, stopper, lid, and c. and is constrained by a spring to assume a position in which it will hinder the removal of the closure, the guard member 5 is arranged to be depressed in a direction parallel to the axis of the closure in opposition to a spring 3 to permit the cork or other closure to be gripped for removal, the spring returning the member 5 to its initial position when released. The spring 3 surrounds the bottle neck 2 and acts upon a band 4 secured to the channel-shaped member 5, the band bearing in turn against the flange of the bottle neck to limit the upward movement of the guard member which is provided on its upper edge with an annular beal 6. According to the Provisional Specification, the upward movement of the guard member may be limited by internal lugs, projections, or set-screws on the guard member or by a narrowing of its lower end, and means may be provided to facilitate the holding down of the guard member while the contents of the bottle are being poured out.

325) Family number: 19457095 (GB786967A)

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Title: Improvements in screw–stoppers for bottles and other containers**Priority:** GB19550001458 19550118

Publication number	Publication date	Application number	Application date
<u>GB786967 A</u>	19571127	GB19550001458	19550118

Probable Assignee: HALL MARK PLASTICS LTD**Assignee(s):^(std):** HALL MARK PLASTICS LTD ; PREC PRODUCTS LEEDS LTD**Assignee(s):** PRECISION PRODUCTS LEEDS LTD ; PRECISION PRODUCTS LEEDS LIMITED ; HALL MARK PLASTICS LIMITED**Inventor(s):^(std):** KIRKBY THOMAS SIDNEY

International class B65D39/08 (Advanced/Invention) ;
^{(IPC 8–9):} B65D39/00 (Core/Invention)

International class B65D39/00
^{(IPC 1–7):}

CPC: B65D39/08**European class:** B65D39/08[Classification Explorer](#)**Abstract:**

Source: GB786967A 786,967. Bottle stoppers. PRECISION PRODUCTS (LEEDS), Ltd., and HALL MARK PLASTICS, Ltd. April 18, 1956 [Jan. 18, 1955], No. 1458/55. Class 125(3). A screw plug bottle closure has a hollow plug part 2 with internal ribs 3, a hollow truncated part 5 forming a sealing ring, an upstanding head rim 6 and a cap part 8 which fits into rim 6. In a modification, Fig. 4, the cap part 8a has cruciform ribs 14 and fits with a bottom rib 11 in an annular groove 15.

0) GB738546A – IMPROVEMENTS IN OR RELATING TO STOPPERS

326) Family number: 20118328 (GB738546A)

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Title: Improvements in or relating to stoppers

Priority: GB19530028340 19531014

Family:	Publication number	Publication date	Application number	Application date
	<u>GB738546 A</u>	19551012	GB19530028340	19531014

Probable Assignee: ANTOINE GIDROL

Assignee(s):^(std): ANTOINE GIDROL

International class
(IPC 8-9): B65D39/00 B65D39/04 (Advanced/Invention);
B65D39/00 (Core/Invention)

International class
(IPC 1-7): B65D39/00

CPC: B65D39/00 B65D39/0023 B65D39/04

European class: B65D39/00 B65D39/00F3 B65D39/04

[Classification Explorer](#)

Forward Citations: US6286699, US3028036, US2953273, EP0814027, DE1062564,

Abstract:

Source: GB738546A 738,546. Stoppers. GIDROL, A. Oct. 14, 1953, No. 28340/53. Class 125 (3). A stopper of plastic has a blind axial cylindrical recess a and the plug is outwardly barrel-shaped and merges into an annular groove a', in the flange a₃. In a modification (Fig. 2) the opening of the recess b' is directed upwardly instead of downwardly. The head a' may be plane, convex or with a central recess.

0) FR1234716A – DISPOSITIF DE FERMETURE INVOLABLE A CAPUCHON V...

327) Family number: 22638916 (FR1234716A)

© PatBase

Title: DISPOSITIF DE FERMETURE INVOLABLE A CAPUCHON VISSE ET BAGUE DE SURETE CLOSURE INVOLABLE CAP SCREW AND A SAFETY RING (Machine translation)

Priority: 19570110 FR19570743223 19570713

Family:	Publication number	Publication date	Application number	Application date
	<u>FR1234716 A</u>	19601019	FR19570743223	19570713

Inventor(s):^(std) BRUENE HERBERT

International class B65D55/02 (Advanced/Invention);
^{(IPC 8-9):} B65D55/02 (Core/Invention)

International class B65D41/34
^{(IPC 1-7):}

CPC: B65D55/022

European class: B65D55/02D

[Classification Explorer](#)

Abstract:

Source: FR1234716A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. La fig.

Machine translation: (Claim 1) ** WARNING ** start of CLMS field may contain end of DESC **. Fig.

328) Family number: 3086687 (DE3201330A1)

© PatBase

Title: Screw closure**Priority:** DE19823201330 19820118

Family:	Publication number	Publication date	Application number	Application date
	<u>DE3201330 A1</u>	19830728	DE19823201330	19820118

Probable Assignee: ZIMMERMANN ANSO DR ROTPUNKT**Assignee(s):**^(std) ROTPUNKT DR ANSO ZIMMERMANN ; ZIMMERMANN ANSO DR ROTPUNKT**Inventor(s):**^(std) ZIMMERMANN ANSO DR

International class A47J41/00 B65D39/08 (Advanced/Invention) ;
^{(IPC 8-9) :} A47J41/00 B65D39/00 (Core/Invention)

International class B65D39/08
^{(IPC 1-7) :}

CPC: A47J41/0016 B65D39/08**European class:** A47J41/00C3 B65D39/08[Classification Explorer](#)**Forward Citations:** DE4435165,**Abstract:**

Source: DE3201330A1 The invention relates to a screw closure, in which an inside part, such as a closure stopper (1), can be rotated relative to an outside part, such as a neck part (2). In order that an intermediate position, such as a pouring position, can be gripped securely, a resistance member is provided on at least one thread, which member initiates an increased resistance to the rotation when the intermediate position has been reached. The resistance member is preferably a thickening in the radial or axial direction which can interact with a thickening on the other part or with an indentation in the other part and which can also be of wedge-shaped design. In this case, the resistance member can be designed to be adjustable such that the force of resistance is removed under appropriate actuation.

329) Family number: 34650353 (ES1037355Y)

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Title: PIEZA DE SEGURIDAD PARA SOLIDARIZACION DE PRODUCTOS.**Priority:** ES19970001428U 19970523

Family:	Publication number	Publication date	Application number	Application date
	ES1037355 UA	19980216	ES19970001428U	19970523
	ES1037355 Y1	19980701	ES19970001428U	19970523
	ES1037355 YA	19980701	ES19970001428U	19970523

Probable Assignee: TAPONES DEL SUR S L**Assignee(s):^(std):** TAPONES DEL SUR S L**Assignee(s):** TAPONES DEL SUR SL**Inventor(s):^(std):** RUIZ SOTO JUAN

International class [B65D67/02](#) (Advanced/Invention);
 (IPC 8-9): [B65D67/00](#) (Core/Invention)

International class [B65D67/02](#)
 (IPC 1-7):

[Classification Explorer](#)**Abstract:**

Source: ES1037355U 1. PIEZA DE SEGURIDAD PARA SOLIDARIZACION DE PRODUCTOS, DE LOS QUE DISPONEN DE CUELLO CON RESALTE EN LAS PROXIMIDADES DE SU BOCA QUE, ESENCIALMENTE, CARACTERIZA UNA DISPOSICION DOBLE DE CASQUILLOS (1 Y 2), IGUALES O DIFERENTES EN DIAMETRO Y UNIDOS ENTRE SI POR UNA PLETINA (3) COMUN, QUE MANTIENE LA PROXIMIDAD DE LAS MISMAS DURANTE SU MANIPULADO, DISPONIENDO AMBOS DE SENDOS RESALTES (4) EN ALA OBLICUOS INTERNOS Y CON SALIENTES SUPERIORES (5) ACODADOS (6), ASI COMO UN RANURADO (9) MULTIPLE DE ESTOS RESALTES (4) ELASTICOS, FACILITADOR DE LA INTRODUCCION DE SIN FORZAR DEL RESALTE (7) DEL CUELLO (8) DE UNA BOTELLA, EN EL CASQUILLO (1) O (2) Y QUE, A LA VEZ, IMPIDE SU EXTRACCION. 1. Safety PIECE FOR FASTENING OF PRODUCTS, WHICH HAVE A NECK WITH PROJECTION IN THE VICINITY OF ITS mouth, which essentially characterizes A DOUBLE ARRANGEMENT OF bushings (1 and 2), THE SAME OR DIFFERENT IN DIAMETER AND JOINED TOGETHER BY A plate (3) Common, which maintains the proximity thereof during its handling, providing both of two separate projections (4) IN OBLIQUE WING WITH UPPER Projections (5) and internal bends (6), as well as a grooving (9) MULTIPLE OF THESE PROJECTIONS (4) elastic, facilitator OF THE INTRODUCTION OF WITHOUT FORCING OF THE PROJECTION (7) of the neck (8) of a bottle, in the sleeve (1) or (2) and, AT THE SAME TIME, prevents its extraction.

330) Family number: 3796181 (FR2421812A)

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Title: BOUCHON A VIS INVIOLE EN UNE SEULE PIECE MOULEE EN MATIERE THERMOPLASTIQUE MOULDED PLASTICS BOTTLE STOPPER – HAS SEALING RING AT THE LOWER EDGE TORN OFF WHEN BOTTLE IS OPENED

Priority: FR19780009845 19780404

Family:	Publication number	Publication date	Application number	Application date
	FR2421812 A1	19791102	FR19780009845	19780404
	FR2421812 B1	19820402	FR19780009845	19780404

Probable Assignee: ALCA SA

Assignee(s):^(std) ALCA SA

International class
(IPC 8-9): [B65D41/34](#) (Advanced/Invention);
[B65D41/34](#) (Core/Invention)

International class
(IPC 1-7): [B65D41/34](#)

CPC: [B65D41/3423](#) [B65D41/3428](#) [B65D2101/0046](#) [B65D2101/0053](#) [B65D2101/0061](#)
[B65D2101/0069](#)

European class: [B65D41/34C](#) [B65D41/34C1](#) [L65D101/00A3D](#) [L65D101/00A3E](#) [L65D101/00A3F](#)
[L65D101/00A4](#)

[Classification Explorer](#)

Cited documents: US3199702 A, FR2339541 A1, FR2310932 A1,

Forward Citations: USD531505, USD530205, USD529804, US7228979, US6981602, US6968966, US6793082, US6622460, US6382443, US6152316, US6119883, US4592475, US4550844, US4478343, US4470513, US4458822, US4458821, FR2748260, EP0805113, EP0269618, DE3224002, DE3144924, DE3025751,

Abstract:

Source: FR2421812A L'invention a pour objet un bouchon a vis inviolable en une seule piece moulee en matiere thermoplastique et concu pour presenter une couronne d'inviole 9 avec points d'attache 8 rompus a la premiere ouverture mais proteges contre une rupture accidentelle au cours des manutentions et transports. La couronne d'inviole 9 est moulee en cone au-dessous de la jupe 3 du bouchon de facon a etre retournee a l'interieur de la jupe lors du premier bouchage en franchissant une contre-bague 12 du recipient pour s'arc-bouter par detente sous cette contre-bague. Le bouchon s'applique notamment au bouchage de bouteilles. The moulded plastic stopper has a top (1) and central cylindrical portion (2) which fits inside the bottle neck. The outside of the stopper has an internal thread (4) fitting the threads on the bottle neck. The base of the stopper skirt (7) is fitted with a collar (9) which is joined to the stopper by the tabs (8) located at equal intervals along the edge of the stopper. The collar is torn off when the bottle is opened for the first time and prevents the contents of the bottle from being tampered with after sealing.

331) Family number: 7180692 (US3712497A)

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Title: THIN WALLED THERMOPLASTIC PRESSURE VESSELS PARTICULARLY FOR CARBONATED BEVERAGES AND METHODS OF MAKING SAME**Priority:** US19700079910 19701012 US19720272013 19720714

Family:	Publication number	Publication date	Application number	Application date
	<u>US3712497 A</u>	19730123	US19700079910	19701012
	<u>US3799821 A</u>	19740326	US19720272013	19720714

Probable Assignee: PACKAGING RESOURCES INC**Assignee(s):^(std):** KOEHRING CO ; JONES E**Assignee(s):** JONES E US ; PACKAGING RESOURCES INC ; UNION BANK OF SWITZERLAND NEW YORK BRANCH AS AGENT ; KOEHRING CO US ; PACKAGING RESOURCES INC A CORP OF DE ; KOEHRING CO A CORP OF DE ; UNION BANK OF SWITZERLAND NEW YORK BRANCH AGENT AS**Inventor(s):^(std):** JONES E**Inventor(s):** JONES E US**International class**
(IPC 8-9): B29C65/06 B65D23/00 (Advanced/Invention);
B29C65/06 B65D23/00 (Core/Invention)**International class**
(IPC 1-7): B29C27/08 B65D1/16 B65D23/00**CPC:** Y10S220/14 B29C66/54 B65D11/04 B29C65/0672 B29C66/542 B29C66/545 B29C66/543 Y10T156/1066 Y10T156/1074**European class:** B29C65/06B B29C66/534 B29C66/54 B65D11/04**US class:** 156/258 156/263 156/324 156/7.3 156/73.5 215/376 220/613 220/DIG.14 229/4.5 229/5.5[Classification Explorer](#)**Cited documents:** US3499068 A, US3297504 A, US2101530 A, US1913880 A, IT650064 A,**Forward Citations:** WO8304214, US5626776, US5489739, US5465856, US5454480, US4944977, US4931329, US4690276, US4457795, US4411726, US4402451, US4109820, US4023700, US3952904, US3837517, US2005023237, US2004166266, FR2539106, FR2531680,**Abstract:**

Source: US3712497A A bottle, particularly for carbonated beverages such as conventional soft drinks and beer, and formed of thin walled, flexible, synthetic plastic parts which are differential pressure formed in heated thermoplastic webs and then severed therefrom, and comprising generally: an upper side wall portion having a neck from which the beverage or the like may be poured, and a generally convex bottom wall for the bottle or vessel having a continuous peripheral flange telescopically received within the lower end of the side wall portion. The external diameter of the upper portion of the flange is slightly greater than the interior diameter of the section of the side wall portion in which it is received so as to be received therein with an interference fit, the parts being friction welded together to dispose friction weld material between the upper portion of the flange and the side wall at the periphery of the convex bottom wall to securely bond the parts together. Another embodiment of the invention is disclosed in which the side wall portion is formed of telescopically interfitted and friction welded upper and lower sections.

332) Family number: 8593657 (FR2569661A)

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Title: Stopping device with defined orientation**Priority:** FR19840013575 19840903

Family:	Publication number	Publication date	Application number	Application date
	FR2569661 A1	19860307	FR19840013575	19840903
	FR2569661 B1	19860919	FR19840013575	19840903

Probable Assignee: MAYET ETS**Assignee(s):^(std):** MAYET ETS**Inventor(s):^(std):** GRANDMOTTET ANDRE**Inventor(s):** ANDRE GRANDMOTTET**International class** [B65D41/04](#) (Advanced/Invention);
(IPC 8-9): [B65D41/04](#) (Core/Invention)**International class** [B65D41/08](#)
(IPC 1-7):**CPC:** [B65D41/0471](#)**European class:** [B65D41/04E](#)[Classification Explorer](#)**Cited documents:** FR2514327 A1, FR2044010 A5, FR2036272 A5,**Forward Citations:** WO9010581, WO9010581, TR26298, JP4575820, JP4500059, JP2006264748, EP0627357, AU627852,**Abstract:**

The device is intended for stopping a bottle having an orifice located at the end of a neck provided with a male external thread, by means of a stopper having an opening and a hollow body in which there is a female internal thread, this stopper having to be screwed on the neck of the bottle up to a final position defined by a stop-piece, in order that the stopper may have, in the said final position, a predetermined orientation with respect to the bottle. It is characterised in that the male external thread 13 of the neck 11 ends, near the end of the neck 11 close to the orifice 12, in a straight section forming an abrupt face 14 and in that the female internal thread of the stopper ends, near the bottom of the stopper, in an abrupt face which must come into contact with the abrupt face 14. Thus, the stop-piece acts at a place in the stopper which is hardly deformable and is constituted in such a way that it is impossible to "force" the passage. Wear, even of the stop-piece, is eliminated. The result is to guarantee that the stopper will always be correctly oriented with respect to the bottle.

Title: DISPENSING OF LIQUIDS
Priority: GB19800026601 19800814 GB19800026602 19800814 GB19810023690 19810803
Family:

Publication number	Publication date	Application number	Application date
AU198174001 A1	19820218	AU19810074001	19810811
GB2083567 A1	19820324	GB19810023690	19810803
GB2083567 B2	19831123	GB19810023690	19810803
GB2087849 A1	19820603	GB19800026601	19800814
GB2087849 B2	19840118	GB19800026601	19800814

Probable Assignee: HUNDON FORGE LTD

Assignee(s):^(std): HUNDON FORGE LTD

Inventor(s):^(std): TURLEY R W

Inventor(s): TURLEY ROGER WILLIAM ; R W TURLEY ; RW TURLEY

Agent(s): CALLINANS

International class
^{(IPC 8-9):} [A61D7/00 A61M5/20 B65D45/00 B65D45/04 B65D45/16 B65D51/22 B67B7/48 G01F11/02](#) (Advanced/Invention);
[A61D7/00 A61M5/20 B65D45/00 B65D51/18 B67B7/00 G01F11/02](#) (Core/Invention)

International class
^{(IPC 1-7):} [A61D7/00 B65D45/00 B65D45/04 B65D45/16 B65D51/22 B67B7/26 F04B13/00 F04B9/14 G01F11/02](#)

CPC: [A61M5/204 B67B7/26](#)

European class: [A61M5/20D B67B7/26](#)

[Classification Explorer](#)

Forward Citations: US5334179, EP0106578,

Abstract:

Source: GB2083567A Apparatus for dispensing measured doses of a liquid, for example for dispensing liquid veterinary preparations to be injected into domestic animals such as pigs, comprises a measuring chamber (6) having an inlet (10) adapted for connection to a liquid reservoir and an outlet (15), with one-way valves. A piston (27) is arranged for movement between an adjustable stop position in which the chamber defines a maximum volume and a fixed end position in which the chamber defines a minimum volume, means (41) being provided for causing movement of the piston between these positions. The volume of the doses may be varied by adjusting the stop 35.

Priority: DE19820001023U 19820118**Family:**

Publication number	Publication date	Application number	Application date
<u>DE8201023 U1</u>	19861009	DE19820001023U	19820118

Probable Assignee: ROTPUNKT DR ANSO ZIMMERMANN 6434 NIEDERAULA DE**Assignee(s):** ROTPUNKT DR ANSO ZIMMERMANN 6434 NIEDERAULA DE

International class B65D39/08 (Advanced/Invention);
 (IPC 8-9): B65D39/00 (Core/Invention)

International class B65D39/08
 (IPC 1-7):

CPC: B65D39/08**European class:** B65D39/08[Classification Explorer](#)**Abstract:**

Source: DE8201023U1 (Claim 1) 1. Schraubverschluss mit einem ein Innengewinde tragenden Aussenteil und einem ein Aussengewinde tragenden Innenteil, die gegeneinander aus einer Schliessstellung in mindestens eine Zwischenstellung und weiter derart verdrehbar sind, dass die beiden Teile voneinander gelöst sind, und umgekehrt, dadurch gekennzeichnet, dass das Aussenteil im Bereich des Innengewindes (3) und/oder das Innenteil im Bereich des Aussengewindes (8) ein Widerstandsglied in einer der Zwischenstellung entsprechenden Lage aufweist, das der Verdreikraft zumindest bei Verdrehen aus der Schliessstellung einen deutlich merkbaren Widerstand entgegensetzt.

Machine translation: (Claim 1) 1 Screw cap with an inner thread bearing outer part and an externally threaded supporting female part, the contra-indicated in a closed position in at least one intermediate position, and further so rotated are that the two parts are separated from each other, and umgekehrt, in that the outer part in the field of internal thread (3) and / or in the inner part of the external thread (8), a resistance element in the intermediate position has a corresponding position, which opposes the Verdreikraft at least during the rotation from the closed position, a clearly perceptible resistance.

335) Family number: 18821469 (GB340874A)

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Title: Improvements relating to closures for bottles, jars and like vessels

Priority: GB19300007988 19300312

Publication number	Publication date	Application number	Application date
<u>GB340874 A</u>	19310108	GB19300007988	19300312

Probable Assignee: JAMES MACINTOSH GRIGOR

Assignee(s):^(std) JAMES MACINTOSH GRIGOR ; WILLIAM GRIGOR

International class
(IPC 8-9): B65D55/06 B65D55/08 (Advanced/Invention);
B65D55/02 (Core/Invention)

International class
(IPC 1-7): B65D41/44

CPC: B65D55/06 B65D55/0845 B65D2555/025

European class: B65D55/06 B65D55/08B2A

[Classification Explorer](#)

Forward Citations: US3332564, GB2235185,

Abstract:

Source: GB340874A 7988. [Class 125 (iii).] Relates to screw-caps for bottle and c. having enclosing soft meta capsules and interposed tearing tapes secured to bands on the necks of the bottles. According to the invention, the capsule 3 has an aperture 5 at the upper end thereof, and the tape 4 is led below the capsule and returned there over the outer side and secured to the neck of the bottle and c. by an adhesive wafer 6.

0) GB892492A – IMPROVEMENTS IN OR RELATING TO BOTTLE STOPPERS ...

336) Family number: 20833597 (GB892492A)

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Title: IMPROVEMENTS IN OR RELATING TO BOTTLE STOPPERS

Priority: GB19590004310 19590206

Family:	Publication number	Publication date	Application number	Application date
	GB892492 A	19620328	GB19590004310	19590206

Probable Assignee: GEOFFREY VERNON SMITH

Assignee(s):^(std) GEOFFREY VERNON SMITH

International class
(IPC 8-9): [B65D47/06](#) (Advanced/Invention);
[B65D47/06](#) (Core/Invention)

International class
(IPC 1-7): [B65D47/32](#)

CPC: [B65D2205/00](#) [B65D47/06](#)

European class: [B65D47/06](#)

[Classification Explorer](#)

Forward Citations: US5467896, US5397027, ITMO20130134, GB2294455, EP2803597,

Abstract:

Source: GB892492A 892,492. Pouring stoppers. SMITH, G. V. Feb. 6, 1959, No. 4310/59. Class 125(3). A pouring stopper is built up from a moulded body section 11 with flange 20 and a separately moulded pourer 10 having a recess 16 in its base to accommodate the flange 20 whereby the two parts are cemented together. An air inlet 26 may be provided and a serrated polythene sleeve 32 with internal grooves engaging projections 19 on the body section may be used as a packing ring. The stopper is moulded from polystyrene.

0) US2774501A – BOTTLE STOPPER

337) Family number: 22545013 (US2774501A)

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Title: BOTTLE STOPPER

Priority: US19530381300 19530921

Family:	Publication number	Publication date	Application number	Application date
	<u>US2774501 A</u>	19561218	US19530381300	19530921

Probable Assignee: SCHENLEY IND INC

Assignee(s):^(std): SCHENLEY IND INC

Assignee(s): SCHENLEY INDUSTRIES INC

Inventor(s):^(std): DON ROBB

Inventor(s): ROBB DON

International class B65D39/00 (Advanced/Invention);
(IPC 8-9): B65D39/00 (Core/Invention)

International class B65D39/16
(IPC 1-7):

CPC: B65D39/0094 B65D2539/008

European class: B65D39/00G8 L65D339/10 L65D539/00Y10

US class: 215/364

[Classification Explorer](#)

Cited documents: US523539 A, US2079049 A, GB230490 A, GB189905009 A, GB188910762 A, FR755034 A, CH161797 A,

Forward Citations: WO08118130, USD793864, USD693693, USD681455, USD643719, USD543459, USD427907, US8573424, US2008223812, US2005167390, ITVI20120089, EP0532367, CN105366177,

Abstract:

Source: US2774501A (Claim 1) 1. A bottle stopper comprising a head, an outwardly tapering shank projecting from said head, an outstanding peripheral shoulder on said shank adjacent to said head and facing away from the latter, there being a peripheral groove formed in said shank adjacent to and spaced, from the projecting end thereof, an open ended yieldable shell circumposed about said shank and having one end in abutting engagement with said outstanding shoulder, a resilient ring having an internal rib and circumposed about said shank with said rib seated in said groove for longitudinal movement relative thereto, said ring being of less external diameter than the shell and said ring having an end in facial contact and in abutting engagement with the other end of said shell for exerting a compressive force on the latter during removal from a bottle opening.

338) Family number: 31961430 (WO06103117A2)

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Title: PROTECTIVE DEVICE FOR VESSELS**Priority:** GB20050006540 20050331

Family:	Publication number	Publication date	Application number	Application date
	GB200506540 A0	20050504	GB20050006540	20050331
	<u>WO06103117 A2</u>	20061005	WO2006EP03448	20060330
	<u>WO06103117 A3</u>	20070405	WO2006EP03448	20060330

Probable Assignee: BEAN STEPHEN D**Assignee(s):**^(std) BEAN STEPHAN D ; BEAN STEPHEN D ; WALKER ADAM**Inventor(s):**^(std) BEAN STEPHAN D ; WALKER ADAM

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

International class B65D47/06 B65D49/00 B65D51/24 ^(Advanced/Invention) ;
^(IPC 8-9) B65D47/06 B65D49/00 B65D51/24 ^(Core/Invention)

CPC: B65D47/06 B65D49/00 B65D51/24**European class:** B65D47/06 B65D49/00 B65D51/24[Classification Explorer](#)**Cited documents:** US3422993 A, US3323693 A, US3297211 A, US1601723 A, GB101664 A, FR2807012 A1, DE29607954 U1,**Forward Citations:** US8100287,**Abstract:**

A protective device is provided for use with liquid containment vessels to prevent or deter the introduction of liquids or solids into the vessels. The device provides a tortuous path communicating from the interior of the vessel to the external surface of the device which prevents or deters the introduction of unwanted contaminants into the liquid containment vessel. One particularly suitable application for the protective device of the invention is in preventing or deterring the tampering, contamination or spiking of drinks with contaminants e.g. drugs such as the so-called date rape drugs. The arrangement of the device does not detract from the easy removal of liquid from the vessel and in the case of drinking vessels a satisfactory drinking experience.

339) Family number: 34396703 (US2011215509A)

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Title: METHOD OF MANUFACTURING A CONTAINER

Priority: GB20070002671 20070212 GB20070024453 20071214 WO2008EP51688 20080212

Family:

Publication number	Publication date	Application number	Application date
BRPI0808077 A2	20140722	BR2008PI08077	20080212
CN101610896 A	20091223	CN200880004647	20080212
EP2121290 A1	20091125	EP20080708919	20080212
GB200702671 A0	20070321	GB20070002671	20070212
GB200724453 A0	20080130	GB20070024453	20071214
GB2446383 A1	20080813	GB20070002671	20070212
RU2009134121 A	20110320	RU20090134121	20080212
US2011215509 AA	20110908	US20080449492	20080212
WO08098938 A1	20080821	WO2008EP51688	20080212

Probable Assignee: ANHEUSER BUSCH INBEV SA**Assignee(s):**^(std) INBEV S A ; INBEV SA ; WAUTERS ALBERT ; ANHEUSER BUSCH INBEV S A ; ANHEUSER BUSCH INBEV SA**Inventor(s):**^(std) ALBERT WAUTERS ; WAUTERS ALBERT**Agent(s):** GEVERS FRANCOIS; GEVERS FRANCOIS 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class ^(IPC 8-9): [B29C49/42](#) [B29C49/64](#) [B29C49/80](#) [B29C61/00](#) [B29C61/02](#) [B29C71/00](#) [B29D22/00](#) [B65D1/20](#) ^(Advanced/Invention);
[B29C49/64](#) [B29C49/80](#) ^(A) ^(Advanced/Non-invention);
[B29C49/42](#) [B29C61/00](#) [B29C71/00](#) [B65D1/00](#) ^(Core/Invention);
[B29C49/64](#) [B29C49/78](#) ^(Core/Non-invention)

CPC: [B29C71/009](#) [B29C49/04](#) [B29C49/06](#) [B29C49/64](#) [B29C2049/6646](#) [B67D1/0804](#) [B29C49/42](#) [B29C61/00](#) [B29C61/025](#) [B29C71/0009](#) [B65D1/20](#) [B29C71/0072](#) [B29C49/46](#) [B29C49/80](#) [B29K2023/0625](#) [B29K2023/065](#) [B29K2023/12](#) [B29K2025/00](#) [B29K2027/06](#) [B29K2055/02](#) [B29K2067/00](#) [B29K2069/00](#) [B29K2075/00](#) [B29K2077/00](#)

European class: [B29C49/42](#) [B29C49/46](#) [B29C49/64](#) [B29C49/80](#) [B29C61/00](#) [B29C61/02B](#) [B29C71/00C](#) [B29C71/00E](#) [B29C71/00G](#) [B65D1/20](#) [B67D1/08A4](#) [L29C49/04](#) [L29C49/06](#) [L29C49/66B9](#) [L29K23/06B3](#) [L29K23/06B9](#) [L29K23/12](#) [L29K25/00](#) [L29K27/06](#) [L29K55/02](#) [L29K67/00](#) [L29K69/00](#) [L29K75/00](#) [L29K77/00](#)

US class: [264/232](#) [264/232S](#) [264/572](#) [264/572P](#)

[Classification Explorer](#)

Cited documents: US4883631 A, US4764323 A, US4587074 A, GB2103535 A1, GB1353656 A, GB1318030 A, GB1307735 A, GB1252879 A, GB1201069 A, GB1138306 A, FR1479366 A, CA849374 A,

Abstract:

Source: US2011215509A A method of manufacturing an article, the method comprising the steps of molding a melt of thermoplastic material thereby forming said article and cooling the article to a temperature below the glass temperature of said thermoplastic material, characterized in that the method further comprises a post treatment of applying a stress on the article.

340) Family number: 3991689 (GB1461394A)

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Title: NESTABLE ARTICLES**Priority:** GB19730011788 19730312

Family:	Publication number	Publication date	Application number	Application date
	<u>GB1461394 A</u>	19770113	GB19730011788	19730312

Probable Assignee: ILLINOIS TOOL WORKS**Assignee(s):^(std):** ILLINOIS TOOL WORKS**Assignee(s):** ILLINOIS TOOL WORKS INC

International class B65D1/26 B65D41/62 (Advanced/Invention);
 (IPC 8-9): B65D1/22 B65D41/00 (Core/Invention)

International class A47G19/23 B65D41/00
 (IPC 1-7):

CPC: B65D1/265 B65D41/62**European class:** B65D1/26B B65D41/62[Classification Explorer](#)

Forward Citations: WO06093952, WO05042356, WO05042356, USD651452, USD649397, USD649396, USD639606, USD627596, USD624788, USD622105, USD615356, USD613554, USD612202, USD612201, USD608591, USD528863, USD516378, USD515358, USD514884, USD514385, USD511932, USD511647, USD510679, US8920892, US8152018, US7546932, JP2007507400, EP1670688,

Abstract:

Source: GB1461394A 1461394 Nestable articles ILLINOIS TOOL WORKS Inc 12 March 1974 [12 March 1973] 11788/73 Heading A4A [Also in Division B8] A nestable cup 10 comprises a stacking ring 12 having circumferentially spaced triangular abutment surfaces 20 which diverge upwardly from radial lines of intersection 22 and terminate inwardly of the article in a wall portion 24, and circumferentially spaced pairs of trapezoidal surfaces 26 which intersect along radial lines 25 to define a recess, the recess surfaces providing a camming action to abutment surfaces 20 when an identical cup is nested in the other. As shown, Fig. 2, the radial lines of intersection 25, 22 are circumferentially displaced relative to each other. The angle between the abutment surfaces 20 of a pair is slightly smaller than the angle between the recess surfaces 26, the latter being substantially 90 degrees Fig. 7. Ribs 28 join the radially outward ends of the lines 22 with the radially inward ends of the lines 27, whereas ribs 29 extend between the inward ends of lines 25 and the upper ends of the wall portion 24. In other embodiments Figs. 9, 13 and 15 (not shown) the staying ring 12 is provided respectively adjacent the open end, intermediate the open end and the bottom portion, and in a re-entrant bottom portion of the cup. In the embodiment of Fig. 8a (not shown) the bottom portion of the cup is disposed slightly below the plane containing the lines 22. The invention is also applicable to bottle tops which have the stacking ring adjacent their closed ends. The cups or bottle tops may be made of plastics, metal foil, paper or composite material.

341) Family number: 51233172 (FR2967977B)

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Title: CAPSULES POUR FLACONS CONTENANT DES PRODUITS LIQUIDES OU CREMEUX**Priority:** FR20100059925 20101130

Family:	Publication number	Publication date	Application number	Application date
	FR2967977 A1	20120601	FR20100059925	20101130
	FR2967977 B1	20130118	FR20100059925	20101130

Probable Assignee: ALSACIENNE DE FABRICATION SOC**Assignee(s):^(std):** ALSACIENNE DE FABRICATION SOC**Assignee(s):** SOCIETE ALSACIENNE DE FABRICATION**Inventor(s):^(std):** HENGY GILLES ; WICKY JEAN JACQUES**Inventor(s):** GILLES HENGY ; JEAN JACQUES WICKY**Agent(s):** MEYER ET PARTENAIRES**International class** [B29C45/14](#) [B65D41/04](#) (Advanced/Invention)
(IPC 8-9):**CPC:** [B65D41/0471](#)**European class:** [B65D41/04E](#)[Classification Explorer](#)**Cited documents:** WO0168468 A1, US6095359 A, US5160057 A, FR2632931 A1, EP1832414 A1, EP1065149 A2,**Abstract:**

The capsule (2) has an insert (8) representing a draft of the capsule and providing a peripheral wall (8a) and a bottom wall (8b), where the capsule is made of transparent plastic. A molded coating (9, 9') encapsulates the insert with exception of a portion of a free edge of the peripheral wall. An internal thread (4) is incorporated with the molded coating. The peripheral wall and the bottom wall of the insert define an interior cavity (13), where the interior cavity comprises a flat bottom. The bottom wall comprises an orifice (11) of a fluidized material. An independent claim is also included for a method for manufacturing a closing capsule.

Title: Container assembly
Priority: FR19740006432 19740226

Family:	Publication number	Publication date	Application number	Application date
	BE825756 A	19750820	BE19750153541	19750220
	BE825756 A1	19750820	BE19750153541	19750220
	DE2507823 A1	19750828	DE19752507823	19750224
	DE2507823 B2	19780126	DE19752507823	19750224
	DE2507823 C3	19780921	DE19752507823	19750224
	FR2261941 A1	19750919	FR19740006432	19740226
	FR2261941 B1	19770923	FR19740006432	19740226
	GB1478215 A	19770629	GB19750002307	19750120
	US3968914 A	19760713	US19740533213	19741216

Probable Assignee: OREAL

Assignee(s):^(std): OREAL

Assignee(s): OREAL FR ; SOCIETE ANONYME DITE L OREAL ; ANONYME L OREAL SOC ; L OREAL ; L OREAL S A PARIS

Inventor(s):^(std): GONCALVES A ; GONCALVES ANTONIN

Inventor(s): GONCALVES ANTONIN GROSLAY FRANKREICH ; A GONCALVES

International class
 (IPC 8-9): [B65D71/50](#) (Advanced/Invention);
[B65D71/50](#) (Core/Invention)

International class
 (IPC 1-7): [B65D61/00](#) [B65D67/02](#) [B65D71/00](#)

CPC: [B65D71/50](#)

European class: [B65D71/50](#)

US class: [206/149](#) [224/45AA](#) [294/87.2](#)

[Classification Explorer](#)

Cited documents: US3653624 A, US3633962 A, US3036853 A, US3003805 A, US2996329 A, US2936070 A, US2896779 A, US2740657 A,

Forward Citations: WO9400361, USD744819, US8632494, US8133200, US6662948, US5501322, US4936012, US4509639, US4508225, US4372598, US4365835, US4308949, US4247142, GB2225494, GB2225494,

Abstract:

Source: US3968914A Container assembly comprises a plurality of containers having similar externally ridged caps and a carrier bar provided with holes bordered by internally ridged sleeves which are a force fit onto said caps.

Title: Jar mounted pipettor
Priority: US19770816853 19770718

Family:	Publication number	Publication date	Application number	Application date
	AU197837673 A1	19790208	AU19780037673	19780630
	AU498118 B2	19790208	AU19780037673	19780630
	CA1081184 A1	19800708	CA19780307525	19780717
	DE2830014 A1	19790201	DE19782830014	19780707
	DE2830014 B2	19800814	DE19782830014	19780707
	DE2830014 C3	19860528	DE19782830014	19780707
	FR2398289 A1	19790216	FR19780021293	19780718
	FR2398289 B1	19820312	FR19780021293	19780718
	GB2001127 A1	19790124	GB19780030248	19780718
	GB2001127 B2	19820310	GB19780030248	19780718
	IT1096902 A	19850826	IT19780025374	19780705
	IT7825374 A0	19780705	IT19780025374	19780705
	JP1166922 C3	19830908	JP19780078827	19780630
	JP54034891 A2	19790314	JP19780078827	19780630
	JP57060058 B4	19821217	JP19780078827	19780630
	US4273257 A	19810616	US19770816853	19770718

Probable Assignee: SHERWOOD SERVICES AG

Assignee(s):^(std): OXFORD LAB ; SHERWOOD MEDICAL CO ; SHERWOOD MEDICAL IND INC ; SHERWOOD MEDICAL INDUSTRIES INC

Assignee(s): SHERWOOD SERVICES AG ; TYCO GROUP SARL ; SHERWOOD MEDICAL INDUSTRIES INC ST LOUIS MO V ST A ; SMITH JAMES C ; SHERWOOD MEDICAL IND INC ST LOUIS MO V ST ; SHERWOOD MEDICAL CO ST LOUIS MO US ; OXFORD LABORATORIES INC ; REED RICHARD D

Inventor(s):^(std): JIEEMUZU SHII SUMISU ; REED RICHARD D ; RICHIYAADO DEII RIIDO ; SMITH JAMES C

Inventor(s): SMITHJ C AND REED R D ; RICHAAADO DEII RIIDO ; RICHARD D REED ; C SMITH JAMES ; D REED RICHARD ; JAMES C SMITH ; JEEMUZU SHII SUMISU

Agent(s): SF

International class
 (IPC 8-9): [B01L3/02 B05B11/00 B65D47/34 G01F11/02 G01F11/06](#) (Advanced/Invention);
[B65D47/34](#) (Advanced/Non-invention);
[B01L3/02 B05B11/00 B65D47/34 G01F11/02](#) (Core/Invention)

International class
 (IPC 1-7): [B01L3/02 B65D47/34 F04B13/00 F04B23/02 F04B9/14 G01F11/02 G01F11/04 G01F11/06](#)

CPC: [B01L3/0206 B01L3/0282 B05B11/3007 G01F11/028](#)

European class: [B01L3/02B2 B01L3/02F B05B11/30C3B G01F11/02B8D](#)

US class: [222/309 222/384 222/43 222/44 422/921 422/934](#)

[Classification Explorer](#)

Cited documents: US4098432 A, US4096751 A, US4096750 A, US4081111 A, US4072247 A, US3987934 A, US3982899 A, US3940027 A, US3805998 A, US3729022 A, US3574334 A, US3527551 A, US3452901 A, US3430813 A, US3337096 A, US3334788 A, US3327900 A, US3283727 A, US3273763 A, US3232117 A, US3141583 A, US2805798 A, US2096461 A, JP42013648 Y1, DE899910 A, DE1942737 U, DE1942737, DE1632032 A1,

Forward Citations:

WO9418526, WO9403392, WO06114779, USD596033, USD592513, USD587584, USD539147, USD537344, USD474841, US9731953, US9694376, US9651412, US9561518, US9227212, US8668117, US8573440, US8568074, US8549675, US8342369, US8291524, US8220080, US8171963, US8099800, US7895683, US7520406, US6015067, US5791518, US5511695, US5423752, US5271527, US5253785, US5073992, US4995532, US4871092, US4526294, US4456152, US2017023392, US2016264391, US2016114344, US2015114997, US2015108170, US2014138404, US2012248138, US2011127298, US2011101032, US2010181343, US2010011492, US2009178725, US2007240252, US2007234470, US2007007302, JP2014010084, GB2506608, GB2506608, GB2190148, GB2190148, EP2295115, EP0855580, EP0855580, EP0812595, EP0326022, EP0250095, EP0250095, EP0250095, EP0087731, EP0086912, DE4438375, DE3821986, DE3534550, DE3516596, DE3221438, DE3136777, DE19723947, CN102022402,

Abstract:

Source: US4273257A A pipettor for threaded attachment to a liquid containing jar provides for dispensing a controllable volume of liquid with a high degree of precision upon manually operating a plunger. The liquid volume dispensed in a single plunger operation is adjusted by rotation of the plunger knob. Both a linear coarse scale and a circular fine adjustment scale are provided for accurately setting the volume to be dispensed. Positive detent stops are provided for accurate volume settings. Improved air purging and plunger locking mechanisms are also provided.

0) GB177466A – AN IMPROVED DEVICE FOR SECURING THE CORKS OR ST...

344) Family number: 18238931 (GB177466A)

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Title: An improved device for securing the corks or stoppers of bottles against unauthorised removal

Priority: GB19210024032 19210909

Family:	Publication number	Publication date	Application number	Application date
	<u>GB177466 A</u>	19220330	GB19210024032	19210909

Probable Assignee: PETER JEFFREY MACKIE

Assignee(s)^(std): MACKIE AND CO DISTILLERS LT ; PETER JEFFREY MACKIE ; MACKIE AND COMPANY DISTILLERS LT

Assignee(s): MACKIE AND CO DISTILLERS LTD ; MACKIE AND COMPANY DISTILLERS LIMITED

International class
(IPC 8-9): B65D55/08 (Advanced/Invention) ;
B65D55/02 (Core/Invention)

International class
(IPC 1-7): B65D55/00

CPC: B65D55/0845

European class: B65D55/08B2A

[Classification Explorer](#)

Abstract:

Source: GB177466A Stoppers secured by key locks. In a device for preventing unauthorized removal of the cork or stopper of a bottle and comprising a tubular body c formed of two semi-cylindrical parts hinged together longitudinally at c <1> and adapted to enclose and be secured to the upper part of the bottle neck, one part having projections which are engaged by a key-operated lock e on the other part, inwardly projecting spikes g <2> engage the end of the neck of the bottle and enter the cork.

0) FR2813280A – BOTTLE NECK HAS EXTERNAL THREAD ON TO WHICH INT...

345) Family number: 19276310 (FR2813280A)

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Title: Bottle neck has external thread on to which internally threaded stopper can be fitted, projections on thread braking stopper as it is screwed from intermediate position to fully screwed up position

Priority: FR20000010864 20000823

Family:	Publication number	Publication date	Application number	Application date
	FR2813280 A1	20020301	FR20000010864	20000823
	FR2813280 B1	20030221	FR20000010864	20000823

Probable Assignee: RICAL SA

Assignee(s):^(std) RICAL ; RICAL SA

Inventor(s):^(std) GRANIER FREDERIC ; NUSBAUM PHILIPPE

Inventor(s): PHILIPPE NUSBAUM ; FREDERIC GRANIER

Agent(s): NOVAGRAAF IP

International class
^{(IPC 8-9):} [B65D41/04 B65D51/22](#) (Advanced/Invention);
[B65D41/04 B65D51/18](#) (Core/Invention)

International class
^{(IPC 1-7):} [B65D1/02 B65D41/08 B65D55/12](#)

CPC: [B65D41/0471 B65D51/225 B65D2251/0025 B65D2251/0093](#)

European class: [B65D41/04E B65D51/22 B65D51/22A1F L65D251/00Y2J L65D251/00Y6M](#)

[Classification Explorer](#)

Cited documents: WO0115988 A1, US5676270 A, US4678098 A, EP1048585 A2,

Forward Citations: WO08037403, NL1030692,

Abstract:

The bottle neck (4) has an external thread on to which an internally threaded stopper can be fitted. Projections (10a, 10b) on the thread brake the stopper as it is screwed from an intermediate position to a fully screwed up position. Independent claims are included for: (a) the combination of the bottle and stopper and (b) the stopper.

0) GB791247A – AN IMPROVED MANUFACTURE OF CLOSURES FOR BOTTLES...

346) Family number: 19639335 (GB791247A)

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Title: An improved manufacture of closures for bottles and the like

Family:	Publication number	Publication date	Application number	Application date
	<u>GB791247 A</u>	19580226	GB19550019166	19550701

Probable Assignee: SARL RICAL

Assignee(s):^(std): SARL RICAL

Assignee(s): SOCIETE A RESPONSABILITE LIMITEE RICAL

International class B29C45/44 B65D39/16 (Advanced/Invention)
(IPC 8-9):

International class B29C3/00
(IPC 1-7):

CPC: B29C45/4407 B29L2031/565 B65D39/16

European class: B29C45/44B B65D39/16 L29L31/56B

[Classification Explorer](#)

Forward Citations: WO09051557, US5626371, US5195787, US5171028, US5033513, US4981586, US4948175, US4936544, GB2235439, GB2235439, GB2166834, FR2401008,

Abstract:

Source: GB791247A 791,247. Moulding bottle stoppers. SOC. a.r.l. RICAL. July 1, 1955 [Feb. 14, 1955], No. 19166/55. Class 87(2). [Also in Group XVII] A stopper with a hollow body 1, ribs 4 and a ring 5 over which lie two appendages 6 by means of which the stopper may be withdrawn is injection moulded in a mould constituted by a member C formed by a cylindrical body 10 having a cavity corresponding to the external surface of the stopper excluding ring 5 and appendages 6, and parallel bores 13, a member D movable relatively to member C, a member E of parts 14, 15 rigidly fixed to each other and a member F composed of a part 16 and two rods 17 screwed therein and each terminating in a head 18. Members D and E co-operate to form ring 5 and members D and F form the appendages 6, the members 14, 16 being relatively movable longitudinally but a stud 22 preventing relative rotation. A member G formed by a part 19 surrounding a part 20 and fixed thereto by a screw 21 completes the mould assembly and co-operates with part 10 to de-limit the internal surface of the stopper and its internal tubular portion 8. Member G is screwed into a fixed member B the remainder of the mould members being movable between members A and B. In the lower position injection is carried out through an orifice 24 and an upward tractive force applied to part 11 lifts the assembly until rods 26 contact member D and the appendages 6 are forced to fold back through 90 degrees and escape through passages at right angles to the plane of the paper, when member E is no longer supported and falls on to a member F. The continuing upward movement of members C, D causes D to be held back by rods 26 relative to member C to expel the stopper from part 10.

Title: BOTELLA Y TAPON CON CIERRE TIPO CLAK.**Priority:** ES19780236708U 19780615

Family:	Publication number	Publication date	Application number	Application date
	ES236708 U	19780816	ES19780236708U	19780615
	ES236708 Y	19781216	ES19780236708U	19780615

Probable Assignee: CANAMASAS PUIGBO ANICETO**Assignee(s):^(std):** CANAMASAS PUIGBO ANICETO**Assignee(s):** CANAMASAS PUIBGO ANICETO**International class** [B65D](#) (Subclass/Invention)
(IPC 8-9).**International class** [B65D](#)
(IPC 1-7).[Classification Explorer](#)**Abstract:**

Source: ES236708U Botella y tapon con cierre tipo clak, que se caracteriza esencialmente porque la botella dispone en su cuello de un saliente cilindrico dotado, en puntos diametralmente opuestos, de sendas aletas cortas horizontales, cuya seccion transversal adopta en su extremidad superior un perfil redondeado, en tanto que inferiormente presenta una esquina viva, complementandose el cierre mediante un tapon, que consiste esencialmente en un capuchon exterior de forma adecuada a la del envase, que interiormente dispone de un cuerpo cilindrico de menor altura partido en dos semicilindros y que en puntos diametralmente opuestos y proximos cada uno de ellos, a uno de los extremos del semicilindro de sendos salientes internos de corta longitud, aptos para enlazar contra la parte inferior de las pestanas del cuello, a cuyo efecto el tapon en la operacion de cierre y en virtud de la elasticidad que le confiere el hecho de disponer del descrito cilindro partido, es susceptible por deformacion, de pasar por el borde las pestanas del cuello, para ir a enclavarse contra su parte inferior, garantizando asi, un cierre hermetico, susceptible de deshacerse mediante un ligero giro del tapon, de modo que cese el enclavamiento entre pestanas de cuello y tapon. Bottle and cap closure with clak type, essentially characterized because the bottle has a neck in cylindrical protrusion provided at diametrically opposite points of respective short horizontal fins whose cross section at its upper end adopting a profile rounded, while the lower part has a sharp corner, complemented by the closure cap, which consists essentially of an outer cap to adequately container, which is internally provided with a cylindrical body of lesser height and split into two half cylinders that diametrically opposed points and each next to one end of respective half cylinder internal projections of short length, suitable to bind against the bottom of the eyelashes neck, for which purpose the plug in the closing operation and Under the elasticity which gives the fact of the cylinder described party, it is susceptible to deformation, to pass through the neck edge lashes, to go to interlock against its bottom as well, ensuring a tight seal, susceptible to dispose with a slight twist of the cap, so that cease interlocking eyelashes neck and cap.

Title: A device for opening bottles with crown corks and reuse them closing timing GATE
(Machine translation)

Priority: RU20030106680U 20030305

Family:	Publication number	Publication date	Application number	Application date
	<u>RU30738 U1</u>	20030710	RU20030106680U	20030305

Probable Assignee: MAKHOTKIN MIKHAIL

Assignee(s): MAKHOTKIN MIKHAIL

International class B65D51/24 B67B7/44 (Advanced/Invention);
(IPC 8-9): B65D51/24 B67B7/00 (Core/Invention)

International class B65D51/24 B67B7/44
(IPC 1-7):

[Classification Explorer](#)

Abstract:

Source: RU30738U 1. Device for opening bottles with crown caps and re-closing time of the gate, comprising a key bolt and pivotally interconnected so that in their arrangement on the same plane in opposite directions relative to the hinge axis is provided with the possibility of opening the bottle using the key, when folding the shutter key is possible to reclose the bottle gate, wherein the key is a lever equipped with a hand tool to remove crown caps from bottles, and the other lateral projections between which the fixed articulation axis and the shutter key, which contains discoidal plate, split collar covering its annular portion and the plate having two stiffener on unlocked portion elements which are swivel shutter key, wherein folds are arranged between the clamp side protrusions key handle and have holes through which passes the axis of articulation, and at the ends of the clamp ring on one side provided with radially inwardly directed projections for fixing the disk-shaped plate and the other side of the radially inwardly directed hooks for mounting the shutter for the neck of the bottle, the shape and dimensions of the internal surfaces corresponding to the shape and size of the external surfaces of the bottle neck, with that the internal volume of the shutter plate and the disk-formed annular part clamp cushion is placed, and the lateral projections of mechanical keys have the possibility of interaction with the outer surface of the yoke limb with the shutter closing the bottle, moreover, the apparatus is provided with a data carrier which is located on the disk-shaped shutter plate as well as the external surface of the device, open for viewing, equipped with imaging and / or inscriptions.

0) YU95804A – DEVICE FOR ADDED COMPONENTS IN BOTTLE OR VESSEL...

349) Family number: 32887959 (YU95804A)

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Title: DEVICE FOR ADDED COMPONENTS IN BOTTLE OR VESSEL FOR PRODUCE MEDICINE, FOOD AND NONALCOHOLIC DRINK

Priority: WO2005YU00015 20050504 YU20040000958 20041104

Family:	Publication number	Publication date	Application number	Application date
	EP1812304 A1	20070801	EP20050735391	20050504
	RS49753 B	20080404	YU20040000958	20041104
	WO06050538 A1	20060511	WO2005YU00015	20050504
	YU95804 A	20051128	YU20040000958	20041104

Probable Assignee: ALTAMED

Assignee(s):^(std) ALTAMED ; ALTAMED D O O ; MIJANOVIC DRAGAN

Assignee(s): ALTAMED DOO

Inventor(s):^(std) MIJANOVIC DRAGAN

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 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class
^{(IPC 8-9):} [A23L2/52](#) [A47J31/00](#) [A61J1/00](#) [B65D47/24](#) [B65D51/28](#) [B65D81/32](#) (Advanced/Invention);
[B65D47/04](#) [B65D51/24](#) (Core/Invention)

International class
^{(IPC 1-7):} [B65D47/24](#) [B65D51/28](#)

CPC: [B65D47/243](#) [B65D51/2864](#)

[Classification Explorer](#)

Cited documents: US4174035 A, US2004155061 AA, US2003072850 AA, JP2000041856, FR2158142 A1,

Forward Citations: WO10081495, WO08023197, US9604766, US8474611, GB2453508, EP2007645, EP1737743, DE112007001961, DE102006028912, DE102006028912, CN102837893,

Abstract:

Source: YU95804A Device for adding ingredients into a bottle or a receptacle for preparation of medicaments, food and soft drinks, comprises of a unique plastic element of a body (1) of the device, through its guide (2), held by the supports (14), is drawn through, in the inside of the guide, a piston (4). A thermal foil (10) is thermally sealed from the bottom of a face surface of the internal crown (9). From external side of the body (1) of the device, and drawn onto a movable cap (6) and the piston (4) is a protective hygienic cap (7) used for protection of the elements of the device from the unhygienic environment. From the bottom side of the body (1) of the device, over the face surface of the internal crown (9), is sealed the thermal foil (10) that closes a room (11') wherein are set ingredients (11) for adding during preparation of medicaments, food or soft drinks. The room (11') is limited from the bottom side by the thermal foil (10), from the lateral sides by the internal cylindrical surface of the crown (9) and the body (1) of the device, and from the top by the movable cap (6) and the guide (2) of the piston. The movable cap (6) with its aperture (6') firmly encloses external cylindrical surface of the guide (2) of the piston.

350) Family number: 1244187 (US3985299A)

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Title: SPRAY HEAD
Priority: FR19740041060 19741129
Family:

Publication number	Publication date	Application number	Application date
BE829914 A	19751001	BE19750157062	19750605
BE829914 A1	19751001	BE19750157062	19750605
BR7502096 A	19760810	BR19750002671	19750408
CA1016507 A1	19770830	CA19750227146	19750516
CH608727 A	19790131	CH19750007624	19750612
DE2512803 A1	19760610	DE19752512803	19750322
DE2512803 B2	19780706	DE19752512803	19750322
DE2512803 C3	19790315	DE19752512803	19750322
FR2292525 A1	19760625	FR19740041060	19741129
FR2292525 B1	19790608	FR19740041060	19741129
GB1505896 A	19780330	GB19750025257	19750612
IT1044738 A	19800421	IT19750068569	19750618
LU72640 A	19751209	LU19750072640	19750604
NL7507636 A	19760601	NL19750007636	19750626
OA5145 A	19810131	OA19750055646	19751028
US3985299 A	19761012	US19750586303	19750612

Probable Assignee: BRENEZ PLASTIQUES

Assignee(s):^(std): BRENEZ J ; BRENEZ JEAN ; BRENEZ PLASTIQUES ; D PLASTIQUES BRENEZ SOC ; PLASTIQUES BRENEZ SOC D ; PLASTIQUES BRENEZ SOC D SA ; SOC D PLASTIQUES BRENEZ

Assignee(s): SOCIETE DES PLASTIQUES BRENEZ S A ; SOCIETE DES PLASTIQUES BRENEZ S A PESSAC GIRONDE FRANKREICH ; SOC DES PLASTIQUES BRENEZ ET CIE SARL ORA SOC DES PLASTI ; DES PLASTIQUES BRENEZ TE PESSAC FRANKRIJK SOC ; SOC DES PLASTIQUES BRENEZ ; SOCIETE DES PLASTIQUES BRENEZ ; SOC DES PLASTIQUES BRENEZ ET CIE SARL ORA SOC DES ; SOCIETE DES PLASTIQUES BRENEZ TE PESSAC FRANKRIJK ; STE DES PLASTIQUES BRENEZ ; DES PLASTIQUES BRENEZ ET CIE SARL ORA DES PLASTI SOC ; DES PLASTIQUES BRENEZ SA SOC ; DES PLASTIQUES BRENEZ SOC ; BRENEZ SOCIETE DES PLASTIQUES ; BRENEZ JEAN CY

Inventor(s):^(std): BRENEZ J ; BRENEZ JEAN ; BRENEZ JEAN C Y ; BRENEZ JEAN CHARLES YVES

Inventor(s): BRENEZ JEAN CY ; BRENEZ JEAN PESSAC FRANKREICH ; JEAN BRENEZ ; JEAN CHARLES YVES BRENEZ

International class
 (IPC 8-9): [B05B11/04](#) [B05B11/06](#) [B05B15/02](#) [B05B7/26](#) [B65D83/14](#) (Advanced/Invention);
[B65D83/00](#) (Advanced/Non-invention);
[B05B11/04](#) [B05B11/06](#) [B05B15/02](#) [B05B7/24](#) [B65D83/14](#) (Core/Invention);
[B65D83/00](#) (Core/Non-invention)

International class
 (IPC 1-7): [B05B1/28](#) [B05B11/00](#) [B05B11/02](#) [B05B11/04](#) [B05B11/06](#) [B05B15/02](#) [B05B7/00](#) [B05B7/06](#)
[B05B7/24](#) [B05B7/26](#) [B05B9/043](#) [B65D83/14](#)

CPC: [B05B11/048](#) [B65D83/60](#) [B05B11/046](#) [B05B11/06](#) [B65D2583/005](#)

European class: [B05B11/04D3](#) [B05B11/06](#) [B65D83/60](#) [L65D583/00R](#)

US class: [222/108](#) [222/631](#) [239/119](#) [239/311](#) [239/327](#) [239/356](#) [239/357](#)

[Classification Explorer](#)

Cited documents: US3794247 A, US3491918 A, US3367330 A, US2758879 A, US2409987 A, US2079587 A, GB680855 A, FR1550307 A,

Forward Citations:

WO16116163, WO05061345, WO05061345, US7464834, US4896833, US4719057,
US4640804, US2008142545, US2007199954, FR3008902,

Abstract:

Source: US3985299A This present invention relates to a spray head for spray diffusers of liquids, powders, and the like. This spray head consists of three separable parts mounted together to form an air-admission chamber between them. The head has an internal groove for collecting traces of the spray products after each spraying operation, such that the product does not flow down the side of the head and the diffuser to render the diffuser inoperative.

351) Family number: 15982345 (GB2382560A)

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Title: Environmentally Sensitive Bottle**Priority:** GB20010028548 20011129

Family:	Publication number	Publication date	Application number	Application date
	GB200128548 A0	20020123	GB20010028548	20011129
	<u>GB2382560 A1</u>	20030604	GB20010028548	20011129

Probable Assignee: ROCKWARE GLASS LTD**Assignee(s):^(std):** ROCKWARE GLASS LTD**Assignee(s):** ROCKWARE GLASS LIMITED**Inventor(s):^(std):** PARKES JOHN**Inventor(s):** JOHN PARKES

International class B65D23/02 B65D23/08 B65D81/30 C03C17/28 C03C17/32 C09D5/32 (Advanced/Invention);
 (IPC 8-9): B65D23/00 B65D81/30 C03C17/28 C09D5/32 (Core/Invention)

International class B65D23/08 C09D5/26 C09D5/32
 (IPC 1-7):

CPC: B65D23/02 B65D23/0821 B65D81/30 C03C17/28 C03C17/32 C09D5/32**European class:** B65D23/02 B65D23/08B1A B65D81/30 C03C17/28 C03C17/32 C09D5/32[Classification Explorer](#)

Cited documents: JP9489350, JP9048935 A2, JP63129038 A2, JP6142611 A2, JP61209927 A2, JP56771910, JP56077191 A2, JP2001131486 A2, JP11214790, JP11021479 A2, GB2316385 A1, GB2262938 A1, DE3628635 A1,

Forward Citations: WO11135250, WO05063592, US7387646, FR2959494,**Abstract:**

Source: GB2382560A A coating composition for coating containers, methods for application of the coating composition to container surfaces and containers comprising a coat layer formed by application of a coating composition to one of the container surfaces is disclosed. The coating composition and coat layer are responsive to changes in environmental conditions to change one or more physical characteristics of the coating composition and/or coat layer. Specific embodiments disclose the incorporation of a uv light absorbing agent to the coating, which contains a coat-forming component of polyethylene or oleic acid, to prevent excess exposure of the container contents to uv radiation.

Title: IMPROVEMENTS IN AND RELATING TO CAPS FOR BOTTLES AND LIKE CONTAINERS

Priority: GB19330034314 19331206

Family:	Publication number	Publication date	Application number	Application date
	<u>GB423124 A</u>	19350125	GB19330034314	19331206

Probable Assignee: RECKITT AND SONS LTD

Assignee(s):^(std): JOHN SAMUEL THOMPSON ; RECKITT AND SONS LTD

Assignee(s): RECKITT AND SONS LIMITED

International class B65D47/18 (Advanced/Invention);
(IPC 8-9): B65D47/06 (Core/Invention)

International class B65D47/18
(IPC 1-7):

CPC: Y02W90/11 B65D47/18

European class: B65D47/18

[Classification Explorer](#)

Abstract:

Source: GB423124A 423,124. Screw caps for bottles and like containers; spouts. RECKITT and SONS, Ltd., and THOMPSON, J. S., Kingston Starch Works, Dansom Lane, Hull. Dec. 6, 1933, No. 34314. [Classes 66, 125 (i), and 125 (iii)] A screw cap for a glass bottle or like container comprises two superimposed members 1, 2, Fig. 2, provided with temporary connecting means and adapted to be screwed together over the neck 4 of the container, the lower member 2 carrying a lateral projection 3 forming a spout when its upper edge registers with the rim of the container mouth, Fig. 4, and the upper member 1 being adapted to be screwed down over the mouth of the container to seal it when not in use. When superimposed, the members 1, 2 are prevented from moving relatively when screwing on or unscrewing from the neck 4 by any suitable means such as a projection 5 and recess 6 on the upper edge of the member 2 engaging a corresponding recess and projection 8 on the lower edge of the member 1. Correct replacement of the cap member 1 relatively to the member 2 is thus assured.

353) Family number: 20603375 (GB458145A)

© PatBase

Title: Improvements in safety devices for closing members of bottles and similar containers**Priority:** GB19360001100 19360113

Family:	Publication number	Publication date	Application number	Application date
	<u>GB458145 A</u>	19361214	GB19360001100	19360113

Probable Assignee: ALBERT BERTRAM ARKADIUS HANSEN**Assignee(s):**^(std): ALBERT BERTRAM ARKADIUS HANSEN

International class B65D55/14 (Advanced/Invention);
^{(IPC 8-9):} B65D55/02 (Core/Invention)

International class B65D55/14
^{(IPC 1-7):}

CPC: B65D55/14**European class:** B65D55/14[Classification Explorer](#)**Forward Citations:** ES2245873, EP1580138, DE3013860, DE102015005321,**Abstract:**

Source: GB458145A 1100. [Class 125 (iii)] A lock–stopper for a bottle and c. comprises a rigid casing 20 having two projections 24 which are fixed and a third projection 26 which is movable, all of which engage under the bead on the bottle neck. The third projection is arranged at the end of a lockable bolt 28, having teeth 38 which co–operate with a detent to lock the bolt in different positions. A spring 34 returns the bolt to the inoperative position. The look is arranged in a housing 48 attached to the casing and is operated by a key.

354) Family number: 22806711 (DE7516052U)

© PatBase

Title: Einlagestueck zur Fixierung von Flaschen in Verpackungskartons Piece of insert for the adjustment of bottles in packing cardboards (Machine translation)**Priority:** DE19750016052U 19750521

Family:	Publication number	Publication date	Application number	Application date
	<u>DE7516052 U</u>	19750918	DE19750016052U	19750521

Probable Assignee: UNIPA GMBH AND CO KG**Assignee(s):^(std):** UNIPA GMBH AND CO KG

International class B65D71/70 B65D81/133 (Advanced/Invention);
 (IPC 8-9): B65D71/00 B65D81/05 (Core/Invention)

International class B65D25/10
 (IPC 1-7):

CPC: B65D71/70 B65D81/133**European class:** B65D71/00E B65D71/70 B65D81/133[Classification Explorer](#)**Forward Citations:** NL2008559,**Abstract:**

Source: DE7516052U (Claim 1) 1.) Aus duennwandigem Material bestehendes, vornehmlich im Tiefziehverfahren hergestelltes Einlagestueck zur Fixierung von Flaschen in aufrechter Lage in Verpackungskartons, das eine der Anzahl der Flaschen entsprechende Anzahl von aus einer Grundflaeche herausragenden und von einer Deckflaeche abgeschlossene Ausstuelpungen zur Aufnahme je eines Flaschenhalses bzw. Korkens und rippenartige Verstaerkungen in der Grundflaeche aufweist, dadurch gekennzeichnet, dass die Ausstuelpungen (2) insgesamt etwa kegelstumpffoermig ausgebildet sind und jeweils eine aus Teilflaechen (3) gebildete innere, der Fixierung je eines Flaschenhalses bzw. Korkens dienende Mantelflaeche aufweisen, aus der entlang der Mantellinie verlaufende Versteifungsrippen (4) aufragen. (Claim 1) 1.) From thin-walled material existing, primarily in. Deep-drawing procedures manufactured piece of insert for the adjustment of bottles in upright situation in packing cardboards, which exhibits one the number of bottles appropriate number of from a surface area outstanding and of a cover surface locked Ausstuelpungen for the admission per a bottle neck and/or a cork and rib-like reinforcement in the surface area, thereby characterized that the Ausstuelpungen (2) is in each case altogether about kegelstumpffoermig trained and from patches (3) formed inside, the adjustment one bottle neck and/or cork each exhibit serving one telflaeche, from which along the Mantellinie running reinforcement ribs (4) rise.

0) FR1324988A – DISPOSITIF DE FERMETURE POUR RECIPIENT, BOUTEIL...

355) Family number: 23045352 (FR1324988A)

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Title: DISPOSITIF DE FERMETURE POUR RECIPIENT, BOUTEILLE OU ANALOGUE
CLOSURE DEVICE FOR A CONTAINER, BOTTLE OR SIMILAR (Machine translation)

Priority: FR19620890874 19620313

Family:	Publication number	Publication date	Application number	Application date
	<u>FR1324988 A</u>	19630426	FR19620890874	19620313

Inventor(s):^(std) CHABOCHE MIGUEL

International class B65D41/48 B65D83/14 (Advanced/Invention);
^{(IPC 8-9):} B65D41/32 B65D83/14 (Core/Invention)

International class B65D41/32
^{(IPC 1-7):}

CPC: B65D41/48 B65D83/40

European class: B65D41/48 B65D83/40

[Classification Explorer](#)

Abstract:

Source: FR1324988A (Claim 1) 1. **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. ou rainure annulaire 3 est l'aissee degagee autour et sous la base de la coupelle

Machine translation: (Claim 1) 1. CAUTION ** ** start of CLMS field may contain end of DESC **. or annular groove 3 is left around and under the given off base of the cup

356) Family number: 31655358 (BRMU7701793U)

© PatBase

Title: Garrafa veda gas Bottle gas seal (Machine translation)**Priority:** BR1997MU01793U 19970902

Publication number	Publication date	Application number	Application date
<u>BRMU7701793 U</u>	19990302	BR1997MU01793U	19970902

Probable Assignee: VEIGA JOSE MAURICIO CONRADO**Assignee(s):**^(std): VEIGA JOSE MAURICIO CONRADO**Inventor(s):**^(std): VEIGA JOSE MAURICIO CONRADO**Inventor(s):** JOSE MAURICIO CONRADO VEIGA

International class B65D23/00 B65D47/26 (Advanced/Invention);
^{(IPC 8-9):} B65D23/00 B65D47/04 (Core/Invention)

International class B65D23/00 B65D47/26
^{(IPC 1-7):}

[Classification Explorer](#)**Abstract:**

Source: BRMU7701793U [Source: Claim 1] 1. GARRAFA VEDA GAS consiste de um recipiente de corpo cilíndrico (3) rígido, com uma parte inferior (11) fechada, uma parte superior (10) aberta, no mesmo diâmetro do corpo (3), com uma superfície externa (9) lisa caracterizada pelo fato de possuir uma superfície interna (8) rosqueada; uma tampa veda gas (2) que é circular e possui uma superfície lateral vertical rosqueada (7), possuindo ainda uma superfície externa lisa em forma de tronco de cone (6), com duas abas verticais de abertura/fechamento (5), apoiadas sobre a superfície cônica (6), localizadas diametralmente opostas ao centro geométrico da tampa (2), uma superfície interna cônica lisa (12), e um pequeno tronco de cilindro vazado e rosqueado (4) externamente, posicionado na parte superior central da superfície externa cônica (6). [Source: Claim 1] 1. BOTTLE GAS SEAL consists of a cylindrical body (3) drive, with a bottom (11) closed, a top (10) opened, in the same diameter of the body (3), with a smooth external surface (9) characterized by the fact of having an inner surface (8) threads; a gas seal cover (2) which is circular and has a threaded vertical side surface (7) with a smooth external surface in the shape of a cone trunk (6), with two vertical tabs open/close (5) supported on the surface cônica (6) located diametrically opposed to geometrico Center cover (2), an internal surface cônica lisa (12), and a small cylinder leaked and threaded stem (4) extremely, positioned at the top of the external surface cônica (6).

0) ES1046750Y – TAPON CON PRECINTO PERFECCIONADO.

357) Family number: 34664046 (ES1046750Y)

© PatBase

Title: TAPON CON PRECINTO PERFECCIONADO.

Priority: ES20000001992U 20000725

Family:	Publication number	Publication date	Application number	Application date
	ES1046750 UA	20010116	ES20000001992U	20000725
	ES1046750 Y1	20020501	ES20000001992U	20000725
	ES1046750 YA	20010616	ES20000001992U	20000725

Probable Assignee: CONSULTORA ARCO ATLANTICO S L

Assignee(s):^(std): CONSULTORA ARCO ATLANTICO S L

Assignee(s): CONSULTORA ARCO ATLANTICO SL

Inventor(s):^(std): GARRIDO PARDO IGNACIO

International class [B65D55/02](#) (Advanced/Invention);
(IPC 8-9): [B65D55/02](#) (Core/Invention)

International class [B65D55/02](#)
(IPC 1-7):

[Classification Explorer](#)

Abstract:

Source: ES1046750U 1. Tapon con precinto perfeccionado, de los constituidos a partir de varias piezas de material plastico, caracterizado por estar formado por una pieza, de planta circular (2) de configuracion cilindrica, moleteada exteriormente y que interiormente presenta resaltes helicoidales (15) que se acoplan sobre hendiduras helicoidales (16) existentes en el gollete de la botella (20), teniendo en la parte superior el cuerpo (2) una pronunciacion cilindrica (3) dotada de un resalte perimetral (11) situado en la zona media, y a la vez disponiendo en el area superior de una perforacion delimitada por tabiquillos emergentes (6) de configuracion triangular, unidos en la parte superior a un cuerpo circular (4), generando aberturas (5) dimanadas de la union de los tabiquillos (6) y el cuerpo (4), acoplándose sobre la zona (3) y su resalte perimetral medio (11) un cuerpo cilindrico hueco (7) dotado de un faldon inferior (8), unido al cuerpo (7) mediante lengüetas y similares (9) y presentando el cuerpo (7) en la parte superior una perforacion (10). 1. Cap with seal perfected, of those constituted from several pieces of plastic material, characterized by being formed by a piece, circular (2) of cylindrical configuration, knurled externally and internally has projections (15) engaging on helical grooves (16) existing in the neck of the bottle (20), having in the upper part of the body (2) a cylindrical projection (3) provided with a peripheral projection (11) located in the middle, and at the same time having a perforation in the top area of delimited by partition walls (6) of triangular configuration, connected at the top to a circular body (4), generating openings (5) emanating from the union of the partition walls (6) and the body (4), engaging on the area (3) and its peripheral projection (11) a hollow cylindrical body (7) provided with a lower skirt (8), attached to the body (7) by tabs, and the like (9) and (7) in the upper part of the body presenting a bore (10).

Title: CONJUNTO VERTEDOR PARA TAPONES IRRELLENABLES**Priority:** ES20040000929 20040416

Family:	Publication number	Publication date	Application number	Application date
	ES2277697 AA	20070716	ES20040000929	20040416
	ES2277697 BA	20080601	ES20040000929	20040416

Probable Assignee: JOSE OLIVER S A**Assignee(s):^(std):** JOSE OLIVER S A**Assignee(s):** JOSE OLIVER SA**Inventor(s):^(std):** OLIVER ROJA JOSE**Inventor(s):** JOSE OLIVER ROJA

International class [B65D49/04](#) (Advanced/Invention);
 (IPC 8-9): [B65D49/00](#) (Core/Invention)

CPC: [B65D49/04](#)**European class:** [B65D49/04](#)[Classification Explorer](#)

Cited documents: US3463341, GB922188, FR2799739, ES291963 U, ES278612 U, ES233546 U,
 ES1037925 U, ES1037924 U, ES1035337 U, ES1033812 U,

Abstract:

The main body has an obturation valve for closing the bottle and is disposed within the neck of the bottle such that the components are protected by the wall of the bottle while maintaining access to the components of the valve and a spill surface. Bridges are provided between the protected components and the accessible components such that evidence is left when the draining set is tampered with.

0) FR2787767A – SECURITY CAP FOR BOTTLE COMPRISES HORIZONTAL TE...

359) Family number: 13428421 (FR2787767A)

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Title: Security cap for bottle comprises horizontal tear line with tab and printed information on internal and external surfaces

Priority: FR19980014612 19981223

Family:	Publication number	Publication date	Application number	Application date
	<u>FR2787767 A3</u>	20000630	FR19980014612	19981223

Probable Assignee: BLEU DE SIENNE

Assignee(s):^(std): BLEU DE SIENNE

Inventor(s):^(std): DENIS QUIENOW ; QUIENOW DENIS

International class
^{(IPC 8-9):} B65D41/62 B65D55/08 (Advanced/Invention);
B65D41/00 B65D55/02 (Core/Invention)

International class
^{(IPC 1-7):} B65D41/62 B65D55/08

CPC: B65D41/62 B65D55/08

European class: B65D41/62 B65D55/08

[Classification Explorer](#)

Abstract:

The cap (1) has a top section and a lower skirt. It has at least one low strength tear line and is used over the stopper of a bottle or container. The tear line in the skirt is positioned horizontally and located under the ring of the bottle. The capsule has a tab to allow the skirt to be removed easily. The cap is printed with information on the front and on the back.

Title: Disposable wine bottle**Priority:** CN19942035695U 19941105

Family:	Publication number	Publication date	Application number	Application date
	CN2219863 Y	19960214	CN19942035695U	19941105

Probable Assignee: YI TONGXIU**Assignee(s):**^(std): YI TONGXIU**Inventor(s):**^(std): TONGXIU YI ; YI TONGXIU

International class B65D1/02 (Advanced/Invention);
 (IPC 8-9): B65D1/02 (Core/Invention)

International class B65D1/02
 (IPC 1-7):

[Classification Explorer](#)**Abstract:**

Source: CN2219863Y The utility model relates to a disposable wine bottle which takes the structure of the neck wall as the characteristic. An internal wall of the bottleneck is provided with a ring groove which is recessed to the direction of the outer wall of the bottleneck. When users drink the wine in the bottle, users touch off the bottleneck above the ring groove and take down the internal bottle stopper. Because of touching off the opening part of the bottleneck, the wine bottle can not be recycled for the secondary use, so the counterfeit wine can be effectively prevented from coming into the market.

361) Family number: 22975103 (FR1295521A)

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Title: PERFECTIONNEMENTS APPORTES AUX RECIPIENTS ET LEURS APPLICATIONS
IMPROVEMENTS TO VESSELS AND THEIR APPLICATIONS (Machine translation)**Priority:** FR19610860064 19610427

Publication number	Publication date	Application number	Application date
FR1295521 A	19620608	FR19610860064	19610427

Inventor(s):^(std) BEREZIAT ANDRE ; BULLUKIAN NAPOLEON ; CHELLE PAUL LOUIS

International class B60G17/02 B65D1/02 B65D8/00 (Advanced/Invention);
^{(IPC 8-9):} B60G17/02 B65D1/02 B65D8/00 (Core/Invention)

International class B65D8/00
^{(IPC 1-7):}

CPC: B65D1/0238 B65D11/04 B65D17/06**European class:** B65D1/02D1A B65D11/04 B65D17/06[Classification Explorer](#)**Forward Citations:** FR2674217, EP0011292,**Abstract:**

Source: FR1295521A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. obture la petite base comprend une portion 16 de grand diametre reliee au corps par une gorge 17 permettant d'en assurer la separation.

Machine translation: (Claim 1) ** WARNING ** start of CLMS field may contain end of DESC **. Closes the small base includes a large diameter portion 16 CONNECTED TO body by a groove 17 which will ensure that separation.

0) US2340211A – MACHINE FOR APPLYING PLASTIC BANDS

362) Family number: 29685909 (US2340211A)

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Title: MACHINE FOR APPLYING PLASTIC BANDS

Priority: US19410394902 19410523

Family:	Publication number	Publication date	Application number	Application date
	US2340211 A	19440125	US19410394902	19410523

Probable Assignee: JAMES R BALSLEY

Assignee(s):^(std): JAMES R BALSLEY

Inventor(s):^(std): BALSLEY JAMES R ; COLOMY ROY H

International class
(IPC 8-9): [B65D41/24](#) (Advanced/Invention);
[B65D41/02](#) (Core/Invention)

CPC: [B65D41/24](#)

European class: [64B23F B65D41/24](#)

US class: [53/291](#)

[Classification Explorer](#)

Forward Citations: US5768767, US4392337, US4354334,

Abstract:

Source: US2340211A 1. In a device for applying contractible bands to containers, in combination, an expansible collet, means for collapsing and expanding said collet, and a hollow sleeve normally surrounding said collet and having an inside dimension to form a sliding fit on said expanded collet, said sleeve being recessed at one end thereof to receive a contractible band.

363) Family number: 3289428 (US4890754A)

© PatBase

Title: Pilfer-resistant plastic closure**Priority:** US19890357716 19890526

Family:	Publication number	Publication date	Application number	Application date
	<u>US4890754 A</u>	19900102	US19890357716	19890526

Probable Assignee: ZAPATA INDUSTRIES INC**Assignee(s):^(std):** ZAPATA IND INC ; ZAPATA INDUSTRIES INC**Assignee(s):** ZAPATA IND**Inventor(s):^(std):** DORN HENRY J ; ZUMBUHL BRUNO

International class B65D41/34 (Advanced/Invention) ;
^{(IPC 8-9) :} B65D41/34 (Core/Invention)

International class B65D41/34
^{(IPC 1-7) :}

CPC: B65D41/3447**European class:** B65D41/34D1**US class:** 215/252[Classification Explorer](#)

Cited documents: US4667838 A, US4595110 A, US4579241 A, US4552328 A, US4545496 A, US4527704 A, US4526282 A, US4511054 A, US4511053 A, US4506795 A, US4503985 A, US4501373 A, US4497765 A, US4496302 A, US4432461 A, US4418828 A, US4407422 A, US4345692 A, US4155698 A, US4147268 A, US3940103 A, US3929246 A, US3555606 A, GB2022063 A1, FR2339541 A1, FR1296166 A,

Forward Citations: WO9418085, WO9418084, WO9222464, WO05092729, US9511905, US6991123, US6705479, US6527132, US6381928, US6325225, US5648037, US5107998, US2014319093, US2004069738, US2003116523, FR2744988, FR2721282, FR2706426, FR2701248, EP0688724, EP0682624, EP0650444, AU696551,

Abstract:

Source: US4890754A Plastic closures for beverage bottles and containers for motor oil, food, pharmaceuticals, industrial products and the like have a tamper-resistant band connected to the sidewall of the closure by internal bridges that are formed by notches in the thread core of molding apparatus of the type having mold parts, including a stripper ring, that move axially to release closures. Stretching, elongation, and weakening of bridges when the closure is stripped from the mold are avoided, and desired configuration of the bridges is maintained, with improved quality and uniformity and more consistent proper performance of the closure during application to and removal from a bottle. In a modification, a small number of relatively strong bridges is added to prevent drooping of the tamper-resistant band if some of the predominant bridges break inadvertently before removal of the closure from a bottle, for example.

0) GB191114469A – AN IMPROVED NON-REFILLABLE BOTTLE.

364) Family number: 36996854 (GB191114469A)

© PatBase

Title: An Improved Non-refillable Bottle.

Priority: 19110619

Family:	Publication number	Publication date	Application number	Application date
	<u>GB191114469 A</u>	19120619		00000000

Probable Assignee: LYELL AUGUST

Assignee(s):^(std): LYELL AUGUST

Assignee(s): AUGUST LYELL

Inventor(s):^(std): LYELL AUGUST

Inventor(s): AUGUST LYELL

International class B65D49/06 (Advanced/Invention);
(IPC 8-9): B65D49/00 (Core/Invention)

CPC: B65D49/06

European class: B65D49/06

[Classification Explorer](#)

Abstract:

Source: GB191114469A 14,469. Lyell, A. June 19. Bottles, non-refillable.—A float valve 19 is seated in a sleeve 14 held by a cork washer 16 in another sleeve 2 similarly held by a cork washer 9 in a bottle neck 1. The sleeve 2 is provided with ports 4 and outlets (not shown), through the top 20. A hollow 21 in the top 20 is provided to guide a ball weight 22. In a modification, Fig. 5, the float valve is weighted by three balls 25, which are guided on to the valve by a cone 26.

365) Family number: 7898471 (DE3912137A1)

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Title: Screw cap for bottle – is torn along line of ribs when opened and this indicates if cap has been removed

Priority: DE19893912137 19890413

Family:	Publication number	Publication date	Application number	Application date
	<u>DE3912137 A1</u>	19901018	DE19893912137	19890413

Probable Assignee: BERG JACOB GMBH CO KG

Assignee(s):^(std): BERG JACOB GMBH CO KG

Assignee(s): JACOB BERG GMBH AND CO KG 6501 BUDENHEIM DE

Inventor(s): VERZICHT DES ERFINDERS AUF NENNUNG

International class
(IPC 8-9): B65D41/34 (Advanced/Invention);
B65D41/34 (Core/Invention)

International class
(IPC 1-7): B65D101/00 B65D41/34 B65D55/12

CPC: B65D41/3428

European class: B65D41/34C1

[Classification Explorer](#)

Forward Citations: WO9402371, WO04080838, USD531505, USD530205, USD529804, US7413097, US6981602, US6766916, US6705479, US6484896, US6325225, US6089390, US5547092, TR25983, JP6024458, JP3382964, FR2761958, EP0872429, EP0870693, EP0573138, EP0561545, EP0553685, EP0508396, DE4216945, AU651759,

Abstract:

Source: DE3912137A1 A screw cap, for a bottle or other container, is made of plastic and has means to indicate if it has been removed and replaced. The cap has a flat top (1) and a cylindrical wall (3) with an internal screw thread (4) in its upper part. The lower part of the cylindrical wall is connected to the upper part by narrow ribs (9) which are spaced around the circumference except for an area (17). The part (10) connected by the ribs has internal projections (19) which engage the screw thread of the container. The area (17) has no internal projections and is connected to the part (10) by a line of weakness parallel to the cap axis. The area (17) extends over an angle preferably of 108 deg. USE – Tamper indication on screw cap for bottle or other container.

366) Family number: 808075 (US3362843A)

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Title: GLASS AEROSOL BOTTLES AND METHOD FOR MAKING SAME**Priority:** US19660579528 19660915

Publication number	Publication date	Application number	Application date
<u>US3362843 A</u>	19680109	US19660579528	19660915

Probable Assignee: OWENS ILLINOIS INC**Assignee(s):^(std):** OWENS ILLINOIS INC**Inventor(s):^(std):** SMITH ROBERT M ; WELLS LOWELL J

International class C03C17/34 (Advanced/Invention);
^{(IPC 8-9):} C03C17/34 (Core/Invention)

International class B65D23/08 C03C17/32
^{(IPC 1-7):}

CPC: C03C17/3405 Y10T428/1321 Y10T428/31525**European class:** C03C17/34B**US class:** 117/72 156/106 215/12.2 427/379 428/34.7 428/417 525/107[Classification Explorer](#)**Cited documents:** US3131077 A, US2979420 A, US2974077 A, US2946701 A, US2931739 A, US2926101 A, US2917197 A, US2877207 A, US2842459 A, US2832754 A, US2832747 A, US2827440 A, US2763573 A, US2698314 A, US2649396 A, US2563288 A, US2159630 A,**Forward Citations:** WO09104160, US8512832, US7091162, US5837347, US5674605, US5310796, US5102937, US4261767, US4056208, US3998985, US3471312, US2012074091, US2011003098, US2005003973, JP50127910, JP48073292, JP48065083,**Abstract:**

Source: US3362843A (Claim 1) What is claimed is: 1. A shatterproof glass aerosol bottle having a tear-resistant resilient vinyl resin coating on substantially the entire outer surface thereof, said coating bonded to said outer surface by a primer consisting essentially of a mixture of (a) an aminoalkylalkoxy silane and (b) a mixture of an unesterified epoxy resin and said silane is gamma-aminopropyltriethoxysilane. 6.

0) US3721337A – QUICK OPENING CONTAINER PACKAGE

367) Family number: 1073970 (US3721337A)

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Title: QUICK OPENING CONTAINER PACKAGE

Priority: AU19720038713 19720207 GB19720000071 19720103 US19720116783 19720219
US19710116783 19710219 GB19720007172 19720216

Family:	Publication number	Publication date	Application number	Application date
	<u>AU197238713 A1</u>	19730809	AU19720038713	19720207
	<u>AU197248035 A1</u>	19740426	AU19720048035	19721023
	<u>AU468128 B2</u>	19730809	AU19720038713	19720207
	<u>AU472651 B2</u>	19760603	AU19720048035	19721023
	<u>BE779461 A</u>	19720816	BE19720779461	19720216
	<u>BE779461 A1</u>	19720816	BE19720779461	19720216
	<u>BE793588 A</u>	19730629		00000000
	<u>BE793588 A1</u>	19730629	BE19720126062	19721229
	<u>BR7200891 A0</u>	19730717	BR19720000891	19720218
	<u>CA959798 A1</u>	19741224	CA19720133565	19720131
	<u>DE2206071 A1</u>	19720831	DE19722206071	19720209
	<u>DE2206071 C2</u>	19820729	DE19722206071	19720209
	<u>DE7300113 U</u>	19730913	DE19730000113U	19730103
	<u>FR2126021 A5</u>	19720929	FR19720005545	19720218
	<u>FR2167589 A1</u>	19730824	FR19730000059	19730102
	<u>FR2167589 B3</u>	19760109	FR19730000059	19730102
	<u>GB1362373 A</u>	19740807	GB19720000071	19720103
	<u>GB1378071 A</u>	19741218	GB19720007172	19720216
	<u>IN138290 A</u>	19760117	IN1972CA02282	19721230
	<u>IT951779 A</u>	19730710	IT19720020736	19720218
	<u>JP54041000 B4</u>	19791206	JP19720016563	19720218
	<u>NL7202023 A</u>	19720822	NL19720002023	19720216
	<u>SE386633 B</u>	19760816	SE19720001984	19720218
	<u>SE386633 C</u>	19761125	SE19720001984	19720218
	<u>US3721337 A</u>	19730320	US19710116783	19710219
	<u>ZA7200631 A</u>	19730926	ZA19720000631	19720201
	<u>ZA7209121 A</u>	19730926	ZA19720009121	19721227

Probable Assignee: ILLINOIS TOOL WORKS

Assignee(s):^(std): GEOCHEMICAL SERVICES HOLDINGS ; RICHARD C ; STRINGER CHRISTIAN R ; ILLINOIS TOOL WORKS ; ILLINOIS TOOL WORKS INC ; ILLINOIS TOOL WORKS INC 8501 WEST HIGGINS ROAD CH ; STRINGER C R ; STRINGER C ; GEOCHEMICAL SERVICES LTD ; GEOCHEMICAL SERVICES LTD GB

Assignee(s): GEOCHEMICAL SERVICES PERCENT HOLDINGS LTD AND RICH ; BRAUN LEONARD C ; ILLINOIS TOOL WORKS INC 8501 WEST HIGGINS ROAD CHICAGO ILLINOIS 60631 E U A ; STRINGER CHRISTIAN R 139 WHISTABLE ROAD CANTERBURY KENT GR BR ; KLYGIS MINDAUGAS J ; ILLINOIS TOOLWORKS INC ; STRINGER CH ; ILLINOIS TOOL WORKS INC US ; ILLINOIS TOOL WORKS INC 60631 CHICAGO ILL US ; GEOCHEMICAL SERVICES HOLDINGS LTD ; GEOCHEMICAL SERVICES HOLDINGS LTD 78 WIMPOLE STR ; GEOCHEMICAL SERVICES HOLDINGS LTD 78 WIMPOLE STREET LONDON W1N 1DA ; GEOCHEMICAL SERVICES HOLDINGS LTD AND RICHARD C

Inventor(s):^(std): BRAUN LEONARD C ; BRAUN LEONARD CHARLES ; BRAUN L ; BRAUN L C ; KLYGIS M ; KLYGIS M J ; KLYGIS MINDAUGAS J ; KLYGIS MINDAUGAS JULIUS ; LC BRAUN ; LEONARD CHARLES BRAUN ; REID N ; REID NEIL GEORGE ; STRINGER C ; STRINGER CHRISTIAN RICHARD ; MINDAUGAS JULIUS KLYGIS ; MJ KLYGIS

Inventor(s): NEIL GEORGE REID ; BRAUN L ; LEONARD CHARLES BRAUN AND MINDAUGAS JULIUS KLYGIS ; M J KLYGIS ; KLYGIS MINDAUGAS JULIUS EVERGREEN PARK ILL ; KLYGIS MINDAUGAS JULIUS EVERGREEN PARK ILL US ; KYGIS M ; L C BRAUN ; KLYGIS M US ; BRAUN L US ; BRAUN LEONARD CHARLES ELK GROVE VILLAGE ILL ; BRAUN LEONARD CHARLES ELK GROVE VILLAGE ILL US ; CHRISTIAN RICHARD STRINGER

International class B02C19/06 B65D71/00 B65D71/50 B66F19/00 (Advanced/Invention);
(IPC 8-9). B02C19/06 B65D71/00 B65D71/50 B66F19/00 (Core/Invention)

International class B02B B02C19/00 B02C19/06 B02C23/00 B65D67/02 B65D71/02
(IPC 1-7).

CPC: B65D71/504 B65D71/506 B02C19/061

European class: B02C19/06B B65D71/50D B65D71/50D2

US class: 206/150 294/87.2

[Classification Explorer](#)

Cited documents: US3404912 A, US3374028 A, US3325004 A, US3268070 A, US2997169 A,

Forward Citations: WO9732668, WO9515818, WO9004457, WO05018811, US7458458, US6923314, US6896129, US6145765, US5261530, US5255780, US5193673, US5174441, US5139137, US5115910, US5020661, US5016750, US4925020, US4911289, US4752001, US4611764, US4550824, US4546876, US4544194, US4513860, US4497325, US4465180, US4460084, US4390095, US4249766, US4064989, US3946862, US2009114408, US2009045081, US2005109640, US2004055906, US2004055905, JP5849951, JP2012014985, GB2275213, GB2275213, GB2232096, FR2539054, EP1419823, EP0885065, DE3510958, DE3400256, DE10352039, DE102004032891,

Abstract:

Source: US3721337A ABSTRACT OF THE DISCLOSURE A container package including a plastic sheet carrier device is provided for retaining and transporting a plurality of similarly configured containers mounted and held within the carrier device, there further being combined with the carrier device a plurality of certain finger engaging tab means which inherently facilitate the separation and removal of containers from the container package.
SUMMARY OF THE INVENTION

368) Family number: 165952 (US3599821A)

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Title: CLOSURE DEVICE OF PLASTIC FOR TUBES AND CONTAINERS**Priority:** DE19691908821 19690221

Family:	Publication number	Publication date	Application number	Application date
	CH505008 A	19710331	CH19700002372	19700219
	DE1908821 A1	19700903	DE19691908821	19690221
	FR2033370 A1	19701204	FR19700006334	19700223
	FR2033370 B1	19740315	FR19700006334	19700223
	GB1298769 A	19721206	GB19700008253	19700220
	US3599821 A	19710817	US19700012085	19700217

Probable Assignee: WALTER LINDER**Assignee(s):^(std):** EGGERT HEINRICH ; SCHWARTZ HANS ; SCHWARTZ HANS ; WALTER LINDER**Assignee(s):** EGGERT HEINRICH DT ; HANS SCHWARTZ ; HEINRICH EGGERT**Inventor(s):^(std):** EGGERT GEINRICH ; EGGERT HEINRICH ; HANS SCHWARTZ ; HEINRICH EGGERT ; SCHWARTZ HANS ; SCHWARTZ HANS**Inventor(s):** HANS SCHWARTZ ; GEINRICH EGGERT**International class**
(IPC 8-9): [B65D50/04](#) (Advanced/Invention);
[B65D50/00](#) (Core/Invention)**International class**
(IPC 1-7): [B65D35/44](#) [B65D35/50](#) [B65D39/00](#) [B65D39/12](#) [B65D41/18](#) [B65D41/28](#) [B65D45/32](#)
[B65D53/00](#) [B65D55/12](#) [G05B23/02](#)**CPC:** [B65D50/045](#)**European class:** [B65D50/04F](#)**US class:** [215/301](#) [215/320](#) [215/345](#) [215/52](#) [220/245](#)[Classification Explorer](#)**Cited documents:** US3365088 A, US2974813 A, US2935219 A,**Forward Citations:** US7988014, US7581671, US7581670, US7296730, US6779305, US6309059, US6112920, US5503282, US4969566, US4759455, US4583652, US4573602, US4426014, US4244480, US3850326, US3809273, US3716160, US2016083152, US2009090719, US2009008396, US2008061118, US2005205649, US2005205648, US2003204997, US2003155365, GB2216109, GB2136409, FR2458476, DE3913186, DE19936482,**Abstract:**

Source: GB1298769A 1298769 Container closures H EGGERT and H SCHWARTZ 20 Feb 1970 [21 Feb 1969] 8253/70 Heading B8T A container closure comprises a cap 2 with an internal expandable stopper 4. The stopper has a bead 5 at the junction between two tapered sections. A centring rod 3 is provided which connects the top of the cap 2 with the base of the stopper 4. When the top of the cap is depressed, the bead 5 disengages from the container permitting removal of the cap. In a second embodiment the bead 5 on the cap engages a ridge on the container. In a third embodiment the centring rod is not connected to the base of the stopper, but passes through the base and has a waisted section, and the top of the centring rod is attached to a central section of the cover 2 which is movable with respect to the remainder of the cover. In this embodiment on depression of the cover the waisted portion of the centring rod lines up with the hole in the bottom of the stopper again permitting the cap to be removed. In another embodiment the stopper is made from a series of separate plates.

369) Family number: 17877774 (US6213323B)

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Title: Universal stopper for closing opened bottles, in particular for sparkling–wine or wine bottles**Priority:** IT1999PR00005 19990129

Family:	Publication number	Publication date	Application number	Application date
	<u>DE20000703 U1</u>	20000323	DE20002000703U	20000117
	<u>FR2789053 A1</u>	20000804	FR20000000603	20000118
	<u>FR2789053 B1</u>	20030808	FR20000000603	20000118
	<u>IT1308507 B1</u>	20020108	IT1999PR00005	19990129
	<u>ITPR990005 A1</u>	20000731	IT1999PR00005	19990129
	<u>US6213323 BA</u>	20010410	US20000492816	20000128

Probable Assignee: FERRARI GROUP SRL**Assignee(s):^(std):** FERRARI GROUP SRL**Assignee(s):** SCS TECHNOLOGIES LLC ; FERRARI GROUP SRL VIA CASALUNGA ; FERRARI GROUP S R L ; FERRARI GROUP S R L PARMA**Inventor(s):^(std):** FERRARI RUGGERO ; RUGGERO FERRARI**International class** B65D39/04 B65D39/16 B65D45/02 B65D45/08 B65D47/26 B67B
(IPC 1–7).**CPC:** B65D45/22 B65D45/32**European class:** B65D45/22 B65D45/32**US class:** 215/272 215/277 215/301[Classification Explorer](#)**Cited documents:** WO9616876 A1, US5957313 A, US5803288 A, US4770307 A, US4634029 A, US4534482 A, US320715 A, FR2053620 A5, EP0736461 A1, DE2361256 A1,**Forward Citations:** WO07082702, US8205762, US2014360971, US2009095700,**Abstract:**

Source: US6213323B The present invention relates to a universal stopper for closing opened bottles (1), in particular for sparkling–wine or wine bottles. Said stopper comprises a hollow cylindrical body (2), a cap (7) for the hollow cylindrical body (2) and at least two tongues (8) which are inclined with respect to the longitudinal axis of the hollow cylindrical body, seated inside shaped recesses (2b) and fixed to the hollow cylindrical body (2) by means of joints (9) forming an axis of rotation for said tongues. It also comprises securing means (10) acting against the tongues (8) and designed to keep the said tongues pressed underneath the lip.

0) GB455883A – IMPROVEMENTS IN OR RELATING TO BOTTLES

370) Family number: 20567516 (GB455883A)

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Title: Improvements in or relating to bottles

Priority: GB19350032506 19351123

Publication number	Publication date	Application number	Application date
<u>GB455883 A</u>	19361029	GB19350032506	19351123

Probable Assignee: ADOLPHUS BURTON SCOTT

Assignee(s):^(std): ADOLPHUS BURTON SCOTT ; DOROTHY AGNES LE GRAND

International class B65D47/40 (Advanced/Invention);
(IPC 8-9). B65D47/00 (Core/Invention)

CPC: B65D47/40

European class: B65D47/40

[Classification Explorer](#)

Abstract:

Source: GB455883A 32506. [Class 125 (i)] A bottle or other container is provided with a pouring tube comprising an outer part a screwed on to the neck of the container, and an inner part b spread from the outer part by a flange c, the inner part having a cutting edge f to facilitate quick separation of the poured portion of liquid from the remainder in the container. A cover h is provided with projections k for engagement with the part a. Reference has been directed by the Comptroller to Specifications 18115 /14 and 297,565, [both in Class 125 (i)].

0) GB110109A – AN IMPROVED BOTTLE.

371) Family number: 25074820 (GB110109A)

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Title: An Improved Bottle.

Priority: GB19170005760 19170424

Family:	Publication number	Publication date	Application number	Application date
	<u>GB110109 A</u>	19171011	GB19170005760	19170424

Probable Assignee: STAPLES SARAH SUSANNAH

Assignee(s):^(std): STAPLES SARAH SUSANNAH

Assignee(s): SARAH SUSANNAH STAPLES

Inventor(s):^(std): STAPLES SARAH SUSANNAH

Inventor(s): SARAH SUSANNAH STAPLES

International class A45F3/18 (Advanced/Invention);
(IPC 8-9): A45F3/00 (Core/Invention)

International class B65D1/04
(IPC 1-7):

CPC: A45F3/18

European class: A45F3/18

[Classification Explorer](#)

Abstract:

Source: GB110109A 110,109. Staples, S. S. April 24, 1917. Stoppers, connexions to prevent loss of stoppers, internal.—The stopper c of a water-bottle is connected by a chain with a disk c<2>, which prevents outflow of liquid if the bottle is upset and also prevents loss of the stopper.

Title: Bottle stopper**Priority:** AU20030252761 20031003

Family:	Publication number	Publication date	Application number	Application date
	<u>AU2003252761 AA</u>	20050421	AU20030252761	20031003

Probable Assignee: NAVASCUES ANTONIO**Assignee(s):**^(std): JULIO NICIEZA ; NAVASCUES ANTONIO ; OMAR GARCIA**Assignee(s):** NICIEZA JULIO CESAR ; ANTONIO NAVASCUES ; GARCIA OMAR ALCIDES**Inventor(s):**^(std): GARCIA OMAR ALCIDES ; NAVASCUES ANTONIO ; NICIEZA JULIO CESAR**Inventor(s):** OMAR ALCIDES GARCIA ; JULIO CESAR NICIEZA ; ANTONIO NAVASCUES

International class B65D39/00 (Advanced/Invention);
 (IPC 8-9): B65D39/00 (Core/Invention)

International class B65D39/00
 (IPC 1-7):

[Classification Explorer](#)**Abstract:**

Source: AU2003252761A Summarizing, we may say that this invention involves a stopper for bottles of beverages in general, particularly for wine, champagne, cider, sodas, and the like, which comprises: 1) a metallic cap with internal plastic plastering (liner) so as to attain airtight closure and a "twist-off" system or the like with screwed threads that enables a quick opening of the bottle; 2) a plastic cube of adequate hardness, with negative impressions or locks that hold and coincide with the external locks in the metallic cap, and the external diameter of which has a number of vertical grooves that allow for an anti-turn locking mechanism when it is placed inside an external aluminum cover; 3) an external aluminum cover, the internal diameter of which locks with the outside of the referred plastic cube, in a cylinder-like and closed manner on one end on which are set the two parts mentioned above. It may have different width and length according to the purpose it is intended to serve, and it has circular threads or frangible bridges in order to guarantee the security of the content.

373) Family number: 49287406 (BRMU8902523U)

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Title: aperfeicoamento introduzido em tampa para embalagens em geral dotada de sistema de vedacao com duplo batoque Improvement to cover packaging in general provided with sealing system with double bung (Machine translation)

Priority: BR2009MU02523U 20091106

Publication number	Publication date	Application number	Application date
BRMU8902523 U2	20110712	BR2009MU02523U	20091106

Probable Assignee: BEZERRIL EDGAR HENRIQUE JR

Assignee(s):^(std): BEZERRIL EDGAR HENRIQUE JR

Assignee(s): EDGAR HENRIQUE BEZERRIL JR

Inventor(s):^(std): BEZERRIL EDGAR HENRIQUE JR

Inventor(s): EDGAR HENRIQUE BEZERRIL JR

International class B65D41/38 (Advanced/Invention)
(IPC 8-9).

[Classification Explorer](#)

Abstract:

Source: BRMU8902523U 1 RESUMO "APERFEICOAMENTO INTRODUZIDO EM TAMPA PARA EMBALAGENS EM GERAL DOTADA DE SISTEMA DE VEDACAO COM DUPLO BATOQUE". A presente patente de modelo de utilidade 5 pertence ao campo das tampas para fechamento de recipientes e e compreendida por corpo cilindrico (ou tampa propriamente dita, 1) provido de nervura contomante toroidal interna (2) e de diversas saliencias (3) de secao transversal substancialmente triangular dispostas na porcao inferior de sua face vertical interna (4), sob a faixa de lacre (5). Sua superficie superior 10 (6) e provida, na face inferior, de um batoque interno (7) em forma de saia perimetral ou rolha dotada de labio lateral axial (8) constituido por borda externa angulada que, por tocar em todo o diametro interno do gargalo do vasilhame (nao mostrado), proporciona maior vedacao do seu ambiente interno. O batoque externo (9) e ligeiramente menor que o batoque anterior 15 (8) e se localiza entre ele e a parede vertical (4) da tampa (1), de forma que quando a mesma e rosqueada ao gargalo do vasilhame, o referido batoque externo (9) fica tangente a borda externa do gargalo – ou eventualmente posicionado sobre sua extremidade superior – auxiliando na adequada vedacao do compartimento interno. 1 SUMMARY "improvement to a COVER FOR PACKAGING IN GENERAL SEALING SYSTEM ENDOWED WITH DOUBLE BUNG". The utility model of the present invention 5 relates to the field of caps for closing containers ee comprised of cylindrical body (or actual cover, 1) provided with internal toroidal contomante rib (2) and several projections (3) of cross section substantially Triangular arranged in the lower portion of its internal vertical face (4) under the sealing strip (5). Its upper surface 10 (6) and provided at the bottom of an internal stopper face (7) in the form of perimeter skirt or stopper equipped with axial lateral lip (8) consisting of angled outer edge which in touch throughout the internal diameter the neck of the bottle (not shown) provides greater sealing of its internal environment. The outer bung (9) and slightly lower than the previous bung 15 (8), and is located between it and the vertical wall (4) of the lid (1), so that when it is threaded to the neck of the container, said external stopper (9) is tangent to the outer edge of the neck – or possibly positioned on the upper end – assisting in the proper sealing of the inner compartment.

374) Family number: 5255455 (EP0093493A1)

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Title: Drop dispenser.**Priority:** US19820372967 19820429

Family:	Publication number	Publication date	Application number	Application date
	<u>EP0093493 A1</u>	19831109	EP19830301436	19830315

Probable Assignee: ST LUKE S HOSPITAL**Assignee(s):^(std):** ST LUKES HOSPITAL**Assignee(s):** ST LUKE S HOSPITAL**Inventor(s):^(std):** DOUGHERTY DELFORD O**Designated states:** AT BE CH DE FR GB IT LI LU NL SE**International class** A61F9/00 B65D47/18 (Advanced/Invention)
(IPC 8-9):**International class** A61F9/00 A61J1/00 B65D47/18
(IPC 1-7):**CPC:** A61F9/0008 B65D47/18**European class:** A61F9/00B B65D47/18[Classification Explorer](#)**Cited documents:** US2874881 A, US2605937 A, FR968572 A, FR1333865 A, FR1168219 A, DE19380 A, DE1063755 A,**Forward Citations:** WO14205587, US9681729, EP0903532,**Abstract:**

Source: EP0093493A1 A dispenser device (A) for dispensing droplets of a liquid from a compressible container (B) having an open neck end (10) comprises a closure assembly (14) including a cap member (20) for liquid-tight attachment to the neck end (10) of the container and an elongated dispensing tube (56) projecting endwise from the cap member. The internal passageway (62) of the dispensing tube is packed with a multiplicity of solid cylindrical filaments (64) extending therethrough. The interstices between the filaments create a plurality of passageways (68) of minute cross-section extending through the tube for retarding the flow of liquid therethrough.

375) Family number: 10132413 (US5397195A)

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Title: Assembly for the dispensing and the application of a fluid product**Priority:** FR19930007762 19930625

Family:	Publication number	Publication date	Application number	Application date
	<u>DE69400814 D1</u>	19961205	DE19946000814	19940620
	<u>DE69400814 T2</u>	19970227	DE19946000814T	19940620
	<u>EP0630597 A1</u>	19941228	EP19940401376	19940620
	<u>EP0630597 B1</u>	19961030	EP19940401376	19940620
	<u>ES2093496 T3</u>	19961216	ES19940401376T	19940620
	<u>FR2706747 A1</u>	19941230	FR19930007762	19930625
	<u>FR2706747 B1</u>	19960209	FR19930007762	19930625
	<u>US5397195 A</u>	19950314	US19940263837	19940622

Probable Assignee: L OREAL**Assignee(s):^(std):** OREAL**Assignee(s):** L OREAL ; L OREAL PARIS FR ; LOREAL**Inventor(s):^(std):** GONCALVES ANTONIN**Inventor(s):** GONCALVES ANTONIN F 95160 MONTMORENCY FR**Designated states:** DE ES FR GB IT

International class [A45D34/04 A46B11/00 B65D47/24](#) (Advanced/Invention);
^{(IPC 8-9):} [A45D34/04 A46B11/00 B65D47/04](#) (Core/Invention)

International class [A45D34/00 A45D34/4 A46B11/0 A46B11/02 A46B11/04 A46B7/2 B65D47/24](#)
^{(IPC 1-7):}

CPC: [A45D34/043 A46B11/0041 A46B11/0079 B65D47/244](#)**European class:** [A45D34/04C1 A46B11/00C6C A46B11/00E2 B65D47/24A3](#)**US class:** [401/116 401/117 401/269 401/277](#)[Classification Explorer](#)**Cited documents:** US5004127 A, US4930922 A, US4902152 A, US4854758 A, US4748990 A, US4726386 A, US4279527 A, GB191311541 A, GB11541, FR1555567 A, EP0342109 A2, EP0238391 A1, CH288125 A,

Forward Citations: WO9739961, WO06098595, WO04069731, US9717318, US8394447, US8272862, US8215858, US8075215, US7950865, US7891899, US7690854, US7648301, US7607852, US7461988, US7384208, US7059796, US6883990, US6764239, US6558061, US6530709, US6497524, US6109810, US6065477, US6004055, US5947331, US5904433, US5735623, US2015003886, US2012261490, US2011220138, US2010301520, US2010132145, US2009291196, US2009238632, US2008019763, US2007231055, US2007206988, US2007020038, US2006257201, US2006216104, US2006067781, US2005265774, US2005169696, US2005000849, US2004240929, US2004084343, US2004042838, KR100943143, KR100577966, JP6175678, JP2015042215, GB2420276, FR2870696, FR2865360, FR2860172, FR2823081, FR2747650, FR2729060, EP1600078, EP1557111, EP0721748,

Abstract:

Source: US5397195A Assembly for the dispensing and the application of a fluid product, comprising a container (2) containing the product, an applicator holder (30) equipped with an applicator (38), an impregnation channel (53) making it possible to impregnate the applicator (38) with the product and a needle holder (12) equipped with a needle (13), the applicator holder (30) being translationally mobile with respect to the needle holder (12) between a position in which the needle (13) closes off the impregnation channel (53) and a position in which the impregnation channel (53) is open, an operating sleeve for the translational movement of the applicator holder (30) being provided, in which the operating device (40) is formed by a sleeve manually actuated in rotation with respect to the container (2), in which container the applicator holder (30) is moved longitudinally, this sleeve having a length such that, in the position for closing off the impregnation channel (53), the applicator (38) is

entirely contained within the operating sleeve (40), the applicator (38) being a brush formed by a ring of bristles fixed annularly around the impregnation channel (53).

376) Family number: 14332306 (WO9934930A1)

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Title: RECHARGEABLE SPRAY DISPENSER**Priority:** FR19980000392 19980112

Family:	Publication number	Publication date	Application number	Application date
	FR2773443 A1	19990716	FR19980000392	19980112
	FR2773443 B1	20001117	FR19980000392	19980112
	WO9934930 A1	19990715	WO1999FR00032	19990112

Probable Assignee: FERAUD CHANTAL**Assignee(s):**^(std) CARLOTTI LAETITIA ; FERAUD CHANTAL**Inventor(s):**^(std) FERAUD CHANTAL ; CARLOTTI LAETITIA**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT JP LU MC NL PT SE US**International class**
^(IPC 8-9) [B05B11/00 B05B11/02](#) (Advanced/Invention)**International class**
^(IPC 1-7) [A45D34/02 B05B11/00 B05B11/02 B65D83/14](#)**CPC:** [B05B11/0048 B05B11/0056 B05B11/02 B05B11/3015 B05B11/3087](#)**European class:** [B05B11/00B5A4 B05B11/00B5F B05B11/00E B05B11/00P3N B05B11/00R7 B05B11/02 B05B11/30C6 B05B11/30L](#)[Classification Explorer](#)**Cited documents:** FR2378572 A1, FR2322797 A1, FR2007121 A1,**Forward Citations:** WO14199094, WO14140454, US8636039, US7743949, US7665635, FR3007006, FR3003241, FR2954292, EP2335833, EP1588775,**Abstract:**

The invention concerns a rechargeable spray dispenser, for example for dispensing perfume, scent water, deodorant, comprising: a body (1) including a first hollow portion (1b) open at one end and defining a chamber (2) for receiving the liquid to be sprayed; a plunger (11, 11') mounted sliding in said chamber; a first conduit (3) opening into said chamber (2) and provided with a non-return valve (7); a spray nozzle (5) communicating with the chamber via a second conduit (4) also provided with a non-return valve (8). The invention is characterised in that the first conduit (3) is arranged so as to be connected to a reservoir containing liquid product reserve and the plunger upward motion in the chamber produces a vacuum capable of closing the valve (8), opening the valve (7) and sucking up the liquid product contained in the chamber reserve.

377) Family number: 17419349 (CN2073401U)

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Title: INTERNAL STOPPER WITH FLOW SPEED STABILIZING UNIT**Priority:** CN19902006154U 19900509

Family:	Publication number	Publication date	Application number	Application date
	<u>CN2073401 U</u>	19910320	CN19902006154U	19900509

Probable Assignee: LIANG JIHAI**Assignee(s):**^(std): LIANG JIHAI**Inventor(s):**^(std): JIHAI LIANG ; LIANG JIHAI

International class B65D47/00 (Advanced/Invention);
 (IPC 8-9): B65D47/00 (Core/Invention)

International class B65D47/00
 (IPC 1-7):

[Classification Explorer](#)**Abstract:**

Source: CN2073401U The utility model discloses an internal stopper with a flow speed stabilizing structure, and can be arranged on a liquid container with a neck opening. The utility model can make liquid flow out stably from the container and can avoid that liquid floods in large quantity when poured. The utility model is especially suitable for pouring wine, soy, vinegar, oil and other liquid. The technique is characterized in that a bottle stopper wall is provided with an internal slot, a bottom plug is provided with an air inlet hole, a liquid outlet hole and a hole opening belt for connecting the air inlet hole and the liquid outlet hole. When the hole opening is not torn off the liquid outlet hole and the air inlet hole are closed, and the whole system plays the function of the bottle stopper. When the hole opening belt is torn off gently, the two holes are opened, and liquid flows out from the liquid outlet hole along the internal slot. The utility model has the advantages of easy pouring, easy placing, no overflowing, no splash, safety and sanitation, and can be used for liquid containers of various standards.

Title: A CAP FOR A CONTAINER
Priority: ES19780239823U 19781130
Family:

Publication number	Publication date	Application number	Application date
DE2947650 A1	19800612	DE19792947650	19791127
ES239823 U	19790116	ES19780239823U	19781130
ES239823 Y	19790801	ES19780239823U	19781130
FR2442779 A3	19800627	FR19790029257	19791128
FR2442779 B3	19801212	FR19790029257	19791128
GB2036704 A1	19800702	GB19790041281	19791129
IT1126431 A	19860521	IT19790027719	19791129
IT7927719 A0	19791129	IT19790027719	19791129
MX150086 A	19840313	MX19790180200	19791127
PT70522 A	19791201	PT19790070522	19791129

Probable Assignee: INDUSTRIAS DIETETICAS Y ALIMENTICIAS PHOSCAO S A

Assignee(s):^(std): DIETETICAS AND ALIMENTICIAS IND ; IND DIET ALIMENT PHOSCAO ; INDUSTRIAS DIETETICAS Y ALIMENTICIAS PHOSCAO SA ; INDUSTRIAS DIETETICAS Y ALIMENTICIAS PHOSCAO S A

Assignee(s): INDUSTRIAS DIET ALIMENT PHOSCAO ; INDUSTRIAS DIETETICAS Y ALIMENTICIAS PHOSCAO

Inventor(s):^(std): FERRERO JORDI IGNACIO ; IGNACIO FERRERO JORDI ; JORDI IGNACIO FERRERO

International class
 (IPC 8-9): [B65D23/10 B65D47/08](#) (Advanced/Invention);
[B65D23/10 B65D47/08](#) (Core/Invention)

International class
 (IPC 1-7): [B65D39/08 B65D47/06 B65D47/08 B65D51/04](#)

CPC: [B65D23/106 B65D47/0823 B65D2251/1075](#)

European class: [B65D23/10D2 B65D47/08B2 L65D251/10F1](#)

[Classification Explorer](#)

Forward Citations: WO9319990, WO08063404, WO08063404, GB2435469, GB2435469, EP0884250,

Abstract:

Source: GB2036704A A cap for use as a closure of a mouth of a container, e.g. for liquids, is formed in one-piece of moulded plastic material, and has a body 1 which fits the container mouth, a handle 5 and a pouring opening 6. The opening 6 is closed by a flap 7 which is attached to the cap body by a hinge 8 which biases it into the closed position. The flap 7 is opened by means of a member 9 extending rearwardly of the hinge 8.

379) Family number: 19713861 (GB406534A)

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Title: Improvements in and relating to closures for bottles and the like**Priority:** GB19330016019 19330602

Family:	Publication number	Publication date	Application number	Application date
	<u>GB406534 A</u>	19340301	GB19330016019	19330602

Probable Assignee: HAROLD HENRY ROBERT HANFORD**Assignee(s):^(std):** HAROLD HENRY ROBERT HANFORD

International class B65D51/24 (Advanced/Invention);
 (IPC 8-9) B65D51/24 (Core/Invention)

CPC: B65D51/243**European class:** B65D51/24D[Classification Explorer](#)**Forward Citations:** US3382997,**Abstract:**

Source: GB406534A 16019. [Class 125 (iii).] A closure for bottles, jars, c., of the kind comprising a depending rim provided with vertical corrugations throughout the whole of its periphery, the said corrugations forming on the interior of the rim a plurality of projections which engage with substantially the same force the lower part of the bead on the bottle neck, is provided with one or more downward extensions, the widths of which are less than 120 or 180 respectively of the rim periphery and substantially constant throughout the major portion of their length, having straight stiffening ribs constituting prolongations of the corrugation ribs above the extensions, said ribs extending downwardly to merge into channelshaped portions forming the lower margins of the extensions. As shown the channel-shaped portion 12 is curved outwardly and the rim is provided with lines of weakness 13. The rim may form part of an annular sealing ring having a horizontal corrugated flange seating on the margin of a circular disc closure.

380) Family number: 21803927 (DE1960201U)

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Title: FLASCHENSTOPFEN. BOTTLE STOPPER. (Machine translation)**Priority:** DE1967B069910U 19670303

Publication number	Publication date	Application number	Application date
<u>DE1960201 U</u>	19670511	DE1967B069910U	19670303

Probable Assignee: BENDER WERKE G M B H**Assignee(s):^(std):** BENDER WERKE G M B H**Assignee(s):** BENDER WERKE GMBH**International class** B65D39/00
(IPC 1-7):**Abstract:**

Source: DE1960201U (Claim 1) 1. Flaschenstopfen mit einem in–den Flaschenhals eindringenden Schaft, der umlaufende Wulstringe aufweist, insbesondere Sektstopfen aus Kunststoff, dadurch gekennzeichnet, dass vom Stopfenkopf (1) aus gesehen auf dem Flaschenhalsdurchmesser angepasste, dichtende Wultringe (3,–4) ein abstuetzender fulstring (5) folgt, der unterteil–t–ist und dessen Durchmesser groesser ist als der Durchmesser der dichtenden Wulstringe.

Machine translation: (claim 1) 1 Bottle stopper with an in–the bottle neck penetrating shaft, the circumferential bead rings having, in particular Sektstopfen made of plastic, characterized in that the plug head (1) as seen on the Flaschenhalsdurchmesser adapted, sealing Wultringe (3, –4) a abstuetzender fulstring (5) follows, which is subdivided or t and whose diameter is larger than the diameter of the sealing bead rings.

0) GB1346268A – TURNING DEVICE FOR THE OPENING AND CLOSING OF B...

381) Family number: 30509666 (GB1346268A)

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Title: TURNING DEVICE FOR THE OPENING AND CLOSING OF BOTTLES PROVIDED WITH SCREW CAPS

Priority: DE19710016430U 19710428 DE19710040321U 19711025

Family:	Publication number	Publication date	Application number	Application date
	<u>DE7116430 U</u>	19720629	DE19710016430U	19710428
	<u>DE7140321 U</u>	19720629	DE19710040321U	19711025
	<u>FR2134643 A1</u>	19721208	FR19720015219	19720428
	<u>FR2134643 B1</u>	19750718	FR19720015219	19720428
	<u>FR2134643 B3</u>	19750718	FR19720015219	19720428
	<u>GB1346268 A</u>	19740206	GB19720018658	19720421
	<u>IT959658 A</u>	19731110	IT19720023599	19720427

Probable Assignee: VOELKER H

Assignee(s):^(std) VOEKER H ; VOELKER H ; VOLKER H ; VOLKER HANS

International class
(IPC 8-9): B67B7/18 (Advanced/Invention);
B65D51/00 (Advanced/Non-invention);
B67B7/00 (Core/Invention);
B65D51/00 (Core/Non-invention)

International class
(IPC 1-7): B25B13/48 B65D51/00 B67B7/00 B67B7/18

CPC: B67B7/18

European class: B67B7/18

[Classification Explorer](#)

Forward Citations: WO8605473, WO05061364, GB2279604, GB2253802, GB2253802, GB2245853, DE8705637,

Abstract:

Source: GB1346268A 1346268 Unscrewing screw caps H VILKER 21 April 1972 [28 April 1971 25 Oct 1971] 18658/72 Heading B3N A device for opening and closing screw caps comprises a body having a frusto-conical interior and with an aperture in its upper narrow end. The inner and outer surfaces may be ribbed. The narrow end is closed by a cap 21. The device may consist of metal, plastics or rubber with a coloured, metallic or oxidized outer surface layer and inner surface layer.

382) Family number: 31664774 (BRPI9902199A)

© PatBase

Title: ROLHA PARA FECHAMENTO DE FRASCO DE BEBIDA STOPPER FOR CLOSING OF DRINK BOTTLE (Machine translation)**Priority:** BR1999PI02199 19990423

Family:	Publication number	Publication date	Application number	Application date
	<u>BRPI9902199 A</u>	20001107	BR1999PI02199	19990423

Probable Assignee: COLUMBUS NETWORK LTDA**Assignee(s):^(std):** COLUMBUS NETWORK LTDA**Inventor(s):^(std):** SALVIA LUIZ CARLOS**Inventor(s):** LUIZ CARLOS SALVIA

International class B65D39/00 (Advanced/Invention);
 (IPC 8-9): B65D39/00 (Core/Invention)

International class B65D39/00
 (IPC 1-7):

[Classification Explorer](#)**Abstract:**

Source: BRPI9902199A O presente resumo diz respeito a um pedido de patente de invenção para rolha, pertencente ao campo da embalagens para bebidas, que foi desenvolvido para que referida rolha ganhe um caráter lúdico e compreendida, essencialmente, por corpo de rolha (10), que aloja internamente um dispositivo eletrônico (20) emissor de mensagem sonora, acionável quando da retirada do corpo de rolha (10) do gargalo do frasco (1) (abertura do frasco) e compreendido, basicamente: por um circuito com memória (21), que tem gravada a mensagem sonora; por um circuito de acionamento do circuito com memória, dotado de dispositivo de chaveamento (22) arranjado para ser comutado quando da retirada da rolha do gargalo e pilha ou bateria (23); e por circuito de saída de som compreendido por alto-falante (24).

Machine translation: This summary relates to an application for a patent for cork, belonging to the field of packaging for drinks, which was developed to win a stopper that character ludico and understood primarily by body stopper (10), which internally accommodates an electronic device (20) emitting sound information, actionable upon removal of the stopper body (10) of the bottle neck (1) (bottle opening) and understood, in essence, by a memory circuit (21), who has recorded the sound message; drive circuit for a memory circuit, provided with switching device (22) arranged to be switched upon removal of the stopper and the neck or battery (23), and output circuit Sound understood by the speaker (24).

Title: PACKAGE**Priority:** ES19980001475U 19980605

Family:	Publication number	Publication date	Application number	Application date
	<u>ES1041645 UA</u>	19990716	ES19980001475U	19980605
	<u>ES1041645 Y1</u>	20000701	ES19980001475U	19980605
	<u>ES1041645 YA</u>	20000701	ES19980001475U	19980605
	<u>WO9964305 A1</u>	19991216	WO1999ES00161	19990603

Probable Assignee: ESTARPACK HISPANIA S A**Assignee(s):**^(std) ESTARPACK HISPANIA S A ; STARPACK HISPANIA S A ; GIMENO FORTEA CARLOS**Assignee(s):** ESTARPACK HISPANIA SA**Inventor(s):**^(std) GIMENO FORTEA CARLOS**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE US

International class [B65D21/02](#) (Advanced/Invention);
^{(IPC 8-9):} [B65D21/02](#) (Core/Invention)

International class [B65D21/032](#) [B65D21/036](#)
^{(IPC 1-7):}

CPC: [B65D21/0224](#)**European class:** [B65D21/02E8](#)[Classification Explorer](#)**Cited documents:** US5669523 A, US5573133 A, US4928839 A, US4161252 A, US3954178 A,**Abstract:**

The package is comprised with two or more bottles (1 and 7) having similar or different shapes and sizes, and connected to each other through one or more intermediary sections (4) which form the union means between the bottles (1 and 7). There are union means (3, 5, 6 and 8) in said intermediary sections (4) and bottles (1 and 7), so that when the intermediary sections (4) and the bottles (1 and 7) are connected a geometrical continuity is formed in the package.

Title: COMBINATION LOCK CONTAINER**Priority:** US20060501569 20060809 US20060759508P 20060117

Publication number	Publication date	Application number	Application date
<u>US7252204 BA</u>	20070807	US20060501569	20060809

Probable Assignee: SMALL STEVEN DOUGLAS**Assignee(s):^(std):** SMALL STEVEN DOUGLAS**Inventor(s):^(std):** SMALL STEVEN DOUGLAS

International class
 (IPC 8-9): A61J1/00 (Advanced/Invention);
B65D55/02 (Advanced/Non-invention);
A61J1/00 (Core/Invention);
B65D55/02 (Core/Non-invention)

CPC: B65D55/145 A61J1/1437 E05B37/02 Y10T70/5009 Y10T70/5575 Y10T70/7305**European class:** B65D55/14B E05B37/02 K61J1/00C10 K61J1/14D**US class:** 206/459.5 210/212 215/201 215/206 215/208 215/230 220/8 70/166 70/312 70/58[Classification Explorer](#)

Cited documents: US841668 A, US7107803 BA, US6912878 BB, US6621405 BA, US6604643 BA, US6311840 BA, US6109996 A, US6089480 A, US6059132 A, US6021653 A, US5722547 A, US5605242 A, US5284262 A, US5277325 A, US4782963 A, US4615191 A, US4445348 A, US4354365 A, US430261 A, US3843007 A, US3828519 A, US3684117 A, US3445021 A, US3407954 A, US3405828 A, US3129834 A, US2006043050 AA, US2005288082 AA, US1834091 A, US1580573 A, US1358352 A, US1280700 A, US1195745 A, EP0043859 A1,

Forward Citations: WO16015646, WO12176068, USD747606, USD742116, USD741713, USD677144, USD664350, US9763853, US9127481, US8944263, US8939301, US8875915, US8550281, US8523182, US8517193, US8272238, US8201705, US8020415, US7966850, US7918362, US2015008153, US2013056930, US2010307208, US2010288001, US2009249841, US2009152277, US2009090730, US2005278186, US2005115287, US2005098528, GB2519182, CN104118627,

Abstract:

Source: US7252204B A combination lock container (10), suitable for accepting a wine bottle, consisting of an upper housing (12), a lower housing (50), a plurality of tumblers (18 A– 18 E), and externally applied indicia (24). Cylindrical walls, or skirt portions, of each housing nest and engage into one another. Each housing has a key-like feature, consisting of a linear array of tabs with gap spacing between, that projects radially from the outer cylindrical wall surface. The upper housing has a longitudinal slot opening in the cylindrical wall, adjacent to its set of tabs, which can accept the tabs of the lower housing. When the housings are fully assembled, matching tab and gap features on each housing are adjacent and in lateral alignment with respect to each other. A plurality of tumblers, each with an internal annularly formed locking rib, are placed concentrically around the housings. The locking rib wall has a section removed that creates a keyway opening, the width of which is slightly greater than that of the aligned tabs. Located on the tumbler's outer circumference, and directly above the keyway, is a score mark or keyway indicator. Applying a personalized code word to the locking mechanism requires no disassembly. By using the keyway indicator features, indicia may be applied externally such that designated letters of a code word can be applied and aligned directly over the tumbler keyway. Once applied, the indicia conceal the location of the score marks. Locking ribs rotate through and intersect the laterally aligned gaps between the housing tabs, thus axially locking the housings together. When the proper code word is positioned underneath a marker, all keyways fall into alignment with the housing tabs. In this unlocked condition, the housings may be separated and the bottle of wine removed. A slot opening in the upper housing additionally allows the container to be used as a coin bank.

0) GB1463984A – VACUUM FLASKS

385) Family number: 3992201 (GB1463984A)

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Title: VACUUM FLASKS

Priority: GB19730058316 19731217

Family:	Publication number	Publication date	Application number	Application date
	<u>GB1463984 A</u>	19770209	GB19730058316	19731217

Probable Assignee: THERMOS LTD

Assignee(s):^(std): THERMOS LTD

International class
(IPC 8-9): A47J41/00 B65D41/26 (Advanced/Invention);
A47J41/00 B65D41/02 (Core/Invention)

International class
(IPC 1-7): A47J41/02 B65D41/26

CPC: A47J41/0083 B65D41/26

European class: A47J41/00L B65D41/26

[Classification Explorer](#)

Forward Citations: WO03018419, US9717367, FR2866324, EP0047072,

Abstract:

Source: GB1463984A 1463984 Vacuum flask cups THERMOS Ltd 3 Jan 1975 [17 Dec 1973] 58316/73 Heading A4A [Also in Division F4] A cup 1 on a vacuum flask comprises a circular base portion 2 and a peripheral wall 3 upstanding from the base portion and is characterized in that the wall has an internal protuberance 7 for retaining the cup on the vacuum flask, the protuberance being located at least as far from the rim 6 of the cup as from its base but spaced from the base. The protuberance may be an internal screw thread or it may be part of a bayonet fitting. There may be a shoulder 4 adjacent to the protuberance on the side remote from the base so that the portion 5 of the wall on that side of the shoulder has a larger diameter than that of the portion extending between the shoulder and the base. Each of the portions of the wall may be substantially frusto-conical in shape diverging towards the mouth 6 of the cup. The cup may be used in conjunction with the conventional vacuum flask (9) to warm the contents of a baby feed bottle (17) by immersing the bottle in hot water in the cup provided from the vacuum flask.

386) Family number: 8610733 (FR2572369A)

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Title: Stoppering device for bottles or other containers, with a stopper having a thread with an angular orientation relative to the bottle**Priority:** FR19840016607 19841030

Family:	Publication number	Publication date	Application number	Application date
	FR2572369 A1	19860502	FR19840016607	19841030
	FR2572369 B1	19870807	FR19840016607	19841030

Probable Assignee: LEFEBURE ISOLANTS REUNIS SA**Assignee(s):^(std):** LEFEBURE ISOLANTS REUNIS SA**Assignee(s):** LEFEBURE ISOLANTS REUNIS**Inventor(s):^(std):** PETIT ROBERT ; DURANTON LUCIEN ; CHEVASSUS ALAIN**Inventor(s):** ALAIN CHEVASSUS ROBERT PETIT ET LUCIEN DURANTON

International class [B65D41/04](#) (Advanced/Invention);
^{(IPC 8-9):} [B65D41/04](#) (Core/Invention)

International class [A45D34/02](#) [B65D41/08](#) [B65D55/12](#)
^{(IPC 1-7):}

CPC: [B65D41/0471](#)**European class:** [B65D41/04E](#)[Classification Explorer](#)**Cited documents:** US3124273 A, GB1535051 A, FR2036272 A5,

Forward Citations: WO9118799, WO9118799, WO17162560, WO16012749, WO16011989, US5876137, US5819965, US5769254, US5667088, US5219084, JP5901104, JP2015182818, JP2010269850, GB2260126, GB2260126, FR2945715, FR2882731, ES2134694, EP2253554, EP1698564, EP0879569, EP0816244, EP0812777, EP0679583,

Abstract:

Stoppering device for bottles or other containers, comprising a stopper having an internal screw thread and a bottle neck with an external screw thread. The stopper 1 and the neck 11 have a screw thread 5, 13 with steep lead angle (extra coarse pitch), the stopper 1 comprises two diametrically opposed studs 9, projecting inwards, and the neck 11 comprises two diametrically opposed pairs of exterior locking 16 and stop 17 projections. Application: to bottles and stoppers which are not of the revolving type, particularly for perfumes, cosmetic products and beauty products.

387) Family number: 3006709 (EP0288679A2)

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Title: RUBBER STOPPER FOR A CONTAINER USED IN SUCTION DRAINAGE.**Priority:** CH19870001637 19870429 EP19880102660 19880224

Family:	Publication number	Publication date	Application number	Application date
	AT69958 E	19911215	AT19880102660T	19880224
	CH671882 A	19891013	CH19870001637	19870429
	DE3866580 D1	19920116	DE19883866580	19880224
	EP0288679 A2	19881102	EP19880102660	19880224
	EP0288679 A3	19891115	EP19880102660	19880224
	EP0288679 B1	19911204	EP19880102660	19880224

Probable Assignee: VEBO**Assignee(s):**^(std): VEBO

Assignee(s): GENOSSENSCHAFT VEBO SOLOTHURNISCHE EINGLIEDERUNGSSTAETTE F BEHINDERTE ; GENOSSENSCHAFT VEBO SOLOTHURNISCHE EINGLIEDERUNGSSTAETTE F BEHINDERTE OENSINGEN ZUCHWIL CH ; GENOSSENSCHAFT VEBO SOLOTHURNISCHE EINGLIEDERUNGSSTAETTE FUER BEHINDERTE ; GENOSSENSCHAFT VEBO SOLOTHURNISCHE EINGLIEDERUNGSSTAETTE FUER BEHINDERTE OENSINGEN ZUCHWIL CH ; GENOSSENSCHAFT VEBO SOLOTHURNISCHE EINGLIEDERUNGSSTAETTE FUR BEHINDERTE

Inventor(s):^(std): HAURI HERMANN**Inventor(s):** HAURI HERMANN CH 5600 LENZBURG CH**Designated states:** AT DE FR GB IT

International class [A61J1/00 A61J1/14 A61M1/00 B65D51/16](#) (Advanced/Invention);
^{(IPC 8-9):} [B65D51/16](#) (Advanced/Non-invention);
[A61J1/00 A61J1/14 A61M1/00 B65D51/16](#) (Core/Invention);
[B65D51/16](#) (Core/Non-invention)

International class [A61M1/00 B65D51/16](#)
^{(IPC 1-7):}

CPC: [B65D51/1661 A61J1/1475 A61M1/0003 A61J1/1468](#)**European class:** [A61J1/00C A61J1/14P A61M1/00A2 B65D51/16D3 K61J1/14M](#)[Classification Explorer](#)**Cited documents:** DE2642213 A1, CH605313,**Forward Citations:** EP0477470,**Abstract:**

The rubber stopper has a jacket (3) which is circular in cross-section and which is closed off at one end by a wall (4) having a tube piece (5). The inner side of the wall (4) is designed as a sealing surface (12), which cooperates with the container opening (7). Air is removed from the space between the inner surface of the jacket and the container opening (7). In order to improve the evacuation, it is proposed that the sealing surface (12) be plane and that, with the stopper (2) applied to the container for suction drainage, the sealing surface (12) cooperate exclusively with the front face (9) of the container opening (7). In addition, the internal cross-section of the jacket (3) is such that the inner surface of the jacket, at least at one position of the area adjoining the sealing surface (12), does not bear sealingly against the outer side of the container opening (7).

388) Family number: 569106 (DE2218287A1)

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Title: BONDING THERMOPLASTIC MOUTHPIECES AND BOTTLES – BY FRICTION–WELDING**Priority:** IT19710024730 19710519

Family:	Publication number	Publication date	Application number	Application date
	DE2218287 A1	19721130	DE19722218287	19720415

Probable Assignee: SMIT STAMPAGGIO MATERIE IND TE**Assignee(s)^{:(std)}:** SMIT STAMPAGGIO MATERIE IND TE**Assignee(s):** SMIT STAMPAGGIO MATERIE INDUSTRIALI TERMOPLASTI

International class B29C65/00 B29C65/06 B65D47/00 (Advanced/Invention);
 (IPC 8–9): B29C65/00 B29C65/06 B65D47/00 (Core/Invention)

International class B29C27/08
 (IPC 1–7):

CPC: B29C65/069 B65D47/00 B29C65/0672 B29C65/7844 B29K2023/06 B29K2023/065
B29K2023/12 B29K2995/0063 B29L2031/712 B29C66/5344 B29C66/8322 B29C66/71
B29C66/612 B29C66/1222 B29C66/1224 B29C66/131

European class: B29C65/06B B29C65/78F2 B29C66/534 B29C66/71 B65D47/00 L29K23/06 L29K23/06B9
L29K23/12 L29K995/00F15 L29L31/712

[Classification Explorer](#)

Forward Citations: WO8404069, US4712809, FR2653378, FR2544407, EP0239248, EP0239248,
 EP0239248, EP0105858, EP0105858,

Abstract:

Source: DE2218287A1 Each mouthpiece is fitted with flange and three inside ribs. After its insertion into the bottle opening, a tool enters the mouthpiece and rotates it, engaging at the ribs and also pressing its flange down on the lip of the opening. Heat generated by the friction welds the mouthpiece and opening together.

389) Family number: 967970 (US3757981A)

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Title: VALVES AND VALVE NEEDLE SYRINGES

Priority: US19690879232 19691124 US19690879232 19691124 US19700090603 19701118
US19700090603 19701118

Family:	Publication number	Publication date	Application number	Application date
	<u>US3603471 A</u>	19710907	US19690879232	19691124
	<u>US3757981 A</u>	19730911	US19700090603	19701118

Probable Assignee: HARRIS R

Assignee(s):^(std): HARRIS R ; PRECISION SAMPLING CORP

Assignee(s): HARRIS R US

Inventor(s):^(std): HARRIS RANO J JR ; HARRIS RANO J SR ; JR HARRIS R ; SR HARRIS R

Inventor(s): SR HARRIS R US ; JR HARRIS R US ; RANO J HARRIS JR ; RANO J HARRIS SR

International class
(IPC 8-9): A61M5/31 B01L3/00 B01L3/14 F16K13/00 (Advanced/Invention);
A61M5/31 B01L3/00 B01L3/14 F16K13/00 (Core/Invention)

International class
(IPC 1-7): A61M5/31 B65D51/00 B65D81/32 B65D85/00

CPC: Y10S215/03 B01L3/508 B01L3/567 A61M5/31 A61M2005/3128 B01L3/5082 F16K13/00

European class: A61M5/31 B01L3/00B6 B01L3/00C2 B01L3/14 B01L3/508 B01L3/5082 B01L3/567 F16K13/00 K61M5/31A9

US class: 215/247 215/3.7R 215/313 215/37 215/DIG.3 222/545 422/913 422/938 422/940 604/236 604/244 604/415 604/86

[Classification Explorer](#)

Cited documents: US3198368 A, US3143109 A, US2855929 A, US2413303 A, US2400231 A, GB1024409 A,

Forward Citations: WO9840159, WO9840159, WO8601712, WO8505023, WO8203777, WO15028833, WO14178897, USD801522, USD767124, USD765837, USD757933, USD737436, USD734868, USD720451, USD674088, USD669980, USD641080, USD630732, USD616984, USD561348, US9801786, US9795536, US9382044, US9339438, US9283324, US9132063, US8998875, US8979792, US8905994, US8852145, US8753325, US8752598, US8684994, US8684225, US8684204, US8608723, US8435210, US8317743, US8070739, US8066688, US8021325, US8016809, US7879018, US7632261, US7491197, US7374054, US7326194, US7270020, US7219874, US6896161, US6818183, US6790674, US6715624, US6548026, US6494331, US6455316, US6379340, US6299296, US6152189, US6045755, US5972297, US5927556, US5827234, US5620114, US5562591, US5520660, US5423793, US5071404, US5024256, US4997430, US4993948, US4808381, US4759756, US4543101, US4543094, US4240429, US2010255563, US2010228220, US2010204679, US2010198148, US2009177177, US2009082750, US2008282814, US2008009789, US2007270778, US2007167904, US2007088313, US2006010994, US2005101879, US2005050967, US2004225274, US2004108293, US2004094580, US2003211016, US2003190755, US2003108455, US2003108454, US2002087144, US2002025255, JP3459971, JP10185776, FR2507897, FR2299627, EP2842885, EP2199802, EP2199802, EP1577004, EP1069942, EP1055452, EP1055452, EP0901824, EP0841094, EP0434149, EP0434149, AU2002238374,

Abstract:

Source: US3757981A A valve, particularly in combination with a needle syringe, for containing fluids, i.e., liquids or gases, within a confined space. The valve per se includes a body comprising a tubular member (e.g., the barrel of a syringe), which contains an inner resilient tubular member within its axial opening. A lateral opening is provided within the walls of both the tubular members and a stem, containing a cut-away portion or lateral opening, is slidably mounted within the laterally oriented wall opening of the tubular members for opening and closing the valve. In another embodiment, the valve is employed in combination with a container. In this combination, the valve body contains, additionally, a cylindrically shaped septum mounted in series with the stem. The septum, contained within an intersecting passageway, lies across the opening or passageway through the valve body to provide an effective leak-proof seal. The valve can be opened to permit exposure of the septum to

the valve exterior. Exposure of the septum in such manner permits withdrawal or injection of fluid from the enclosed container. The valve is also adaptable for use with conduits of various types, and can be employed, e.g., in sample inlet systems as conventionally used in modern analytical instruments.

0) FR2693436A – BOTTLE STOPPER – COMPRISES UPPER AND LOWER ELEM...

390) Family number: 12591260 (FR2693436A)

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Title: Bottle stopper – comprises upper and lower elements which are moved vertically relative to each other by threaded cylinder in tapped case

Priority: FR19920008349 19920707

Family:	Publication number	Publication date	Application number	Application date
	<u>FR2693436 A1</u>	19940114	FR19920008349	19920707

Probable Assignee: JACQUELIN MONIQUE

Assignee(s):^(std): JACQUELIN MONIQUE

Inventor(s):^(std): MONIQUE JACQUELIN

Inventor(s): JACQUELIN MONIQUE

International class
(IPC 8-9): B65D39/12 B65D41/48 B65D51/24 (Advanced/Invention);
B65D39/00 B65D41/32 B65D51/24 (Core/Invention)

International class
(IPC 1-7): B65D41/46 B65D43/00

CPC: B65D39/12 B65D41/485 B65D51/243

European class: B65D39/12 B65D41/48B B65D51/24D

[Classification Explorer](#)

Cited documents: FR1412866, FR1308391, FR1145270,

Abstract:

The stopper for a container throat without a screw thread comprises lower (1) and upper (2) elements which seal the neck and are movable relative to each other for opening the container. The stopper is internally locked by compression of the lower element in the throat. The central organs for vertical displacement (13,23) of the upper element (2) relative to the lower element are formed from a threaded cylinder (13) fitting in a tapped case (23) fixed to one or other of the upper and lower elements. Peripheral members for freeing the stopper are made on the upper element for causing opening by partial deformation of the lock after abutting contact against the lower element (1) during unscrewing. USE – Manual opening of stopper for bottle neck with out a screw thread.

391) Family number: 20548173 (US2855127A)

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Title: DISPENSING PUMP AND CHECK VALVE THEREFOR**Priority:** US19560560701 19560123

Family:	Publication number	Publication date	Application number	Application date
	GB819150 A	19590826	GB19570000159	19570102
	US2855127 A	19581007	US19560560701	19560123

Probable Assignee: GILLETTE CO**Assignee(s):^(std):** GILLETTE CO**Assignee(s):** THE GILLETTE COMPANY**Inventor(s):^(std):** ALBERT SAFIANOFF ; LERNER LOUIS L**Inventor(s):** SAFIANOFF ALBERT

International class [B05B11/00 B65D47/34 F04B43/00 F04B53/10](#) (Advanced/Invention);
^{(IPC 8-9):} [B05B11/00 B65D47/34 F04B43/00 F04B53/10](#) (Core/Invention)

International class [A45D34/04 B65D47/34](#)
^{(IPC 1-7):}

CPC: [Y10T137/791 B05B11/3032 F04B43/0063 F04B53/101](#)**European class:** [B05B11/00P5N B05B11/30E6 F04B43/00D8B F04B53/10B8](#)**US class:** [137/533.11 222/207 222/211 222/212 222/215 251/359](#)[Classification Explorer](#)**Cited documents:** US2690278 A, US2322139 A, US2275972 A, US2275051 A, US2250813 A, US2044629 A, US2005299 A, DE340428 A,

Forward Citations: WO8604984, WO8301431, WO08073875, US9568114, US8402999, US8387833, US8292120, US8167510, US8152400, US8136700, US8132696, US8128303, US8127789, US8123073, US8083103, US8061566, US7997454, US7997047, US5944223, US5890624, US5095940, US4457454, US3779429, US3771556, US3411648, US3387625, US3268216, US3220611, US3207374, US3185174, US3172561, US3162333, US3105618, US3029001, US2979236, US2015034195, US2014339266, US2010147892, US2009301572, US2009263176, US2009183371, US2008264973, US2008264972, US2008237262, US2008223875, US2008205972, US2008205970, US2008205965, US2008203115, US2008203114, US2008203110, US2008193198, US2008190961, US2008190958, US2008181714, US2008149666, US2008069628, US2006124180, US2005092373,

Abstract:

Source: GB819150A 819,150. Reciprocating pumps. GILLETTE CO. Jan. 2, 1957 [Jan. 23, 1956], No. 159/57. Class 102(1). [Also in Groups XVII and XXIX] A pump for dispensing liquids, powders and c., incorporates inlet and outlet non-return valves 33, 34 respectively each consisting of a rigid ball co-acting with a seating of conical formation having a plurality of circumferential, inwardly projecting ribs 30. The seatings are integral with a moulded body 10 of natural or synthetic rubber, polyethylene, and c. which also has internal projections 32 to limit the opening movement of the balls. Pumping is effected by finger pressure on a diaphragm 36 of natural or synthetic rubber and c. which is retained in a groove 38 by a lip 42. The body is internally screw-threaded at 16 for attachment to a bottle and has apaced projections 35 to provide vents for the entry of air as the contents of the bottle are discharged. A downward extension 22 at the inlet valve receives a pipe that reaches to the bottom of the bottle.

0) US2268497A – BOTTLE CLOSURE

392) Family number: 21914609 (US2268497A)

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Title: BOTTLE CLOSURE

Priority: US19370163015 19370909

Family:	Publication number	Publication date	Application number	Application date
	<u>US2268497 A</u>	19411230	US19370163015	19370909

Probable Assignee: POSITIVE SEAL CLOSURE CO

Assignee(s):^(std): POSITIVE SEAL CLOSURE CO ; POSITIVE SEAL CLOSURE COMPANY

Inventor(s):^(std): JESNIG CHARLES J

International class
(IPC 8-9): B65D49/06 (Advanced/Invention);
B65D49/00 (Core/Invention)

International class
(IPC 1-7): B65D49/04

CPC: B65D49/06

European class: B65D49/06

US class: 215/22

[Classification Explorer](#)

Forward Citations: US2830723,

Abstract:

Source: US2268497A 1. In bottle closures a valve having a tapered end, a valve seat, a weight, means about which the weight may substantially pivot to secure substantially arcuate movement of the weight against the valve end to seat said valve relative to said valve seat under the action of gravity with the weight engaging the tapered end close to but beyond the axial center thereof in the line of arcuate weight movement and in free suspension between the point of contact with the valve end and the point of contact with said means,

393) Family number: 22962377 (GB1007563A)

© PatBase

Title: Improvements in or relating to hollow containers of thermoplastic material**Priority:** GB19620013939 19620411

Family:	Publication number	Publication date	Application number	Application date
	<u>DE1908171 U</u>	19650107	DE1963F023729U	19630410
	<u>FR1354521 A</u>	19640306	FR19630931365	19630411
	<u>GB1007563 A</u>	19651013	GB19620013939	19620411

Probable Assignee: FRASER AND GLASS LTD**Assignee(s):^(std):** FRASER AND GLASS LTD**Assignee(s):** FRASER AND GLASS LIMITED**Inventor(s):^(std):** MARTIN EDWARD RANKINE

International class
(IPC 8-9): [B29C41/02 B29C41/38 B29C49/48 B65D1/40](#) (Advanced/Invention);
[B29C41/04](#) (Advanced/Non-invention);
[B29C41/02 B29C41/34 B29C49/48 B65D1/40](#) (Core/Invention);
[B29C41/04](#) (Core/Non-invention)

International class
(IPC 1-7): [B65D1/40 B65D1/42 B65D8/00](#)

CPC: [B29C41/025 B29C41/04 B29C41/386 B29C49/4802 B29C2049/4805 B29L2031/712 B65D1/40](#)

European class: [B29C41/02B B29C41/38C B29C49/48A B65D1/40 L29C41/04 L29C49/48A2 L29L31/712](#)

[Classification Explorer](#)

Forward Citations: WO9712811, US4274548, US4024731, FR2747607, FR2655617, FR2513812, FR2417384, EP0853584, EP0751079, DE3049232, DE2619590,

Abstract:

Source: GB1007563A 1,007,563. Plastics containers. FRASER and GLASS Ltd. April 5, 1963 [April 11, 1962], No. 13939/62. Heading B8D. [Also in Divisions B4 and B5] A hollow moulded container, e.g. a jerrican or bottle crate, of thermoplastic material is formed with a hollow internal pillar 3 to provide rigidity, the pillar being either formed as a through channel, Fig. 3, or divided internally, Fig. 1. The container walls may be reinforced by moulded depressions combined with a pillar, Fig. 9. The container is formed by blow moulding or rotational casting (see Divisions B4 and B5). The pillar may be in the form of hollow projections extending towards one another from opposite walls of the container without meeting.

0) RU104156U – SAFETY COVER BOTTLE (MACHINE TRANSLATION)

394) Family number: 49784302 (RU104156U)

© PatBase

Title: Safety cover BOTTLE (Machine translation)

Priority: RU20100125684U 20100623

Family:	Publication number	Publication date	Application number	Application date
	RU104156 U1	20110510	RU20100125684U	20100623

International class B65D49/02 (Advanced/Invention)
(IPC 8-9).

[Classification Explorer](#)

Abstract:

Source: RU104156U

Machine translation: 1. Protection cap for a bottle comprising a body having a prisoner in a metal cap and a mobile node is located inside a metal sleeve fixed node having means for interaction with the elements of the bottle, a means of transporting liquids, including spreader outer sleeve having an internal cavity, filling the hole, the filler element and performed with male interacting with a female cap, with the outer sleeve has a hollow box, transient cavity, closing and sealing means, including the cover, which has made cup-shape, the sealing ring element, threaded connection between the outer sleeve and cover, installation tools and retention of housing on the neck, includes the performance of the outer sleeve annular cavity locks to interact with mating elements of the bottle made in the form of inward formed in the outer sleeve windows sectoral projections, internal axial slots with pointed tips, tools display opening, including the inverted one to the other parts of the metal cap and a metal sleeve having at the junction of the weakened section of the ring facing the metal sleeve of the recessed ring belt, made in the bottom of the cover, and has a harbor with the response element of the metal sleeve in the form of a ratchet engagement section, with harboring element is an annular shoulder formed "podkatkoy" top of the metal sleeve, and placed with the possibility of singing

395) Family number: 50451152 (EP2404839B1)

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Title: PRAESENTATIONSVERPACKUNG FUER FLASCHE ODER FLAKON PRESENTATION PACKAGING FOR A BOTTLE OR FLACON**Priority:** EP20110167054 20110523 FR20100055530 20100707

Family:	Publication number	Publication date	Application number	Application date
	<u>DE602011002424 D1</u>	20130919	DE201160002424T	20110523
	<u>EP2404839 A1</u>	20120111	EP20110167054	20110523
	<u>EP2404839 B1</u>	20130724	EP20110167054	20110523
	<u>ES2430247 T3</u>	20131119	ES20110167054T	20110523
	<u>FR2962421 A1</u>	20120113	FR20100055530	20100707
	<u>FR2962421 B1</u>	20120810	FR20100055530	20100707

Probable Assignee: FINEGA**Assignee(s):**^(std): FINEGA**Inventor(s):**^(std): AUTAJON GERARD**Inventor(s):** GERARD AUTAJON**Agent(s):** CBDL PATENTANWAELTE; BLANCHARD EUGENE GILLES; UNGRIA JAVIER; CABINET BEAU DE LOMENIE**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

International class B65D5/20 B65D5/50 B65D5/52 B65D77/04 B65D81/05 B65D81/133
 (IPC 8-9): B65D85/30 (Advanced/Invention);
B65D85/30 (Advanced/Non-invention)

CPC: B65D5/2009 B65D5/5213 B65D77/0426**European class:** B65D5/20A1 B65D5/52D B65D77/04C2[Classification Explorer](#)**Cited documents:** FR2884809 A1, FR2778634 A1, FR2744985 A1,**Forward Citations:** FR3017115,**Abstract:**

The package (1) has a box (4) delimiting a housing accessible by a front opening. The box has flaps (11) articulated to occupy opening and closing positions of the housing. An internal clamping structure (30) is mounted to move in translation inside the housing between the bottom and the opening. A rigid connection system (35) between one of the flaps and the structure ensures translation movement of the structure in direction of the bottom and the opening during the movement of flaps between the closing and opening positions.

0) GB332770A – A NEW AND IMPROVED STOPPER

396) Family number: 18685439 (GB332770A)

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Title: A new and improved stopper

Priority: GB19290024499 19290810

Family:	Publication number	Publication date	Application number	Application date
	<u>GB332770 A</u>	19300731	GB19290024499	19290810

Probable Assignee: FORDYCE CHARLES JONES

Assignee(s):^(std): FORDYCE CHARLES JONES

International class B65D39/12 (Advanced/Invention);
(IPC 8-9); B65D39/00 (Core/Invention)

CPC: B65D39/12

European class: B65D39/12

[Classification Explorer](#)

Forward Citations: US2661860,

Abstract:

Source: GB332770A Internal stoppers. A closure for hot-water bottles and the like comprises a soft or semi-hard rubber plug 5 formed with projecting lugs 6, Fig. 1, or a screw-threaded portion 13, Fig. 5, for locking engagement with the inner wall of a hard rubber socket 1 fixed in the neck of the bottle, the spindle 7 of the plug being provided with an operating handle 8. In a modified construction, the socket and the plug are formed with plain contacting faces, and the spindle is threaded to engage in a tapped hole in a bridge piece in the socket closure or in a wing nut adapted to bear on the upper surface of the socket. A semi hard rubber plug may be formed with a circumferential recess to accommodate a soft rubber ring.

397) Family number: 20554266 (GB393235A)

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Title: A new device for opening and closing vessels provided with crown corks**Priority:** GB19330003954 19330209

Family:	Publication number	Publication date	Application number	Application date
	BE394486 A	00000000		00000000
	GB393235 A	19330601	GB19330003954	19330209

Probable Assignee: CARLOS BENETTI TARTAGLIA**Assignee(s):**^(std) CARLOS BENETTI TARTAGLIA

International class [B65D45/32](#) (Advanced/Invention);
 (IPC 8-9): [B65D45/00](#) (Core/Invention)

International class [B67B7/16](#)
 (IPC 1-7):

CPC: [B65D45/32](#)**European class:** [B65D45/32](#)[Classification Explorer](#)**Forward Citations:** US3185332,**Abstract:**

Source: GB393235A 3954. [Class 125 (iii).] A reseal device for bottles and c., for use after removal of " crown corks," comprises a split ring or band carrying a sealing disc and having its upper and lower edges free to be contracted by a lever pivoted on the band, means being provided on the ring or band to cause the sealing disc to be pressed on to its seating simultaneously with the contraction of the ring or band. As shown, the lower edge of the ring 8 is provided with inwardly-projecting teeth 9 which, when a lever 2 pivoted on a pin 4 passing through two outwardly-extending arms 7 on the ring is rotated in the direction of the arrow, are pressed against the bottle and c. bead by the contraction of the ring consequent upon the sliding of two cam surfaces 5 on the lever 2 along the outer curved surfaces of the arms 7. The teeth 9 thus slide under the bead and teeth 14 on the upper edge of the ring press an elastic disc 12 and a metal disc 13 down on the bottle and c. mouth. As shown, the handle 1 of the lever 2 is shaped as a " crown cork " remover.

0) GB112378A – IMPROVEMENTS IN STOPPERS.

398) Family number: 25345633 (GB112378A)

© PatBase

Title: Improvements in Stoppers.

Priority: GB19170007914 19170601

Family:	Publication number	Publication date	Application number	Application date
	<u>GB112378 A</u>	19180110	GB19170007914	19170601

Probable Assignee: STEELE MICHAEL THOMAS

Assignee(s):^(std): STEELE MICHAEL THOMAS

Assignee(s): MICHAEL THOMAS STEELE

Inventor(s):^(std): STEELE MICHAEL THOMAS

Inventor(s): MICHAEL THOMAS STEELE

International class B65D39/08 (Advanced/Invention);
(IPC 8-9): B65D39/00 (Core/Invention)

International class B65D39/16
(IPC 1-7):

CPC: B65D39/08

European class: B65D39/08

[Classification Explorer](#)

Abstract:

Source: GB112378A 112,378. Steele, M. T. June 1, 1917. Stoppers, screw.—A stopper for a water-bag, bottle, and c.. comprises the usual thimble-shaped plug member a adapted to screw into the neck of the bottle and c. and having a handle b of heavy wire or light rod bent to form an upright portion b<2> and an annular base b<3> around which the enlarged rim portion a<3> of the plug a is folded so as to form an annular bead which provides a seating for the washer d.

0) GB124240A – A NON-REFILLABLE BOTTLE STOPPER

399) Family number: 25505922 (GB124240A)

© PatBase

Title: A Non-refillable Bottle Stopper

Priority: GB19180002487 19180212

Family:	Publication number	Publication date	Application number	Application date
	GB124240 A	19190327	GB19180002487	19180212

Probable Assignee: NEWNHAM CLAUDE HEATH

Assignee(s):^(std): NEWNHAM CLAUDE HEATH

Assignee(s): CLAUDE HEATH NEWNHAM

Inventor(s):^(std): NEWNHAM CLAUDE HEATH

Inventor(s): CLAUDE HEATH NEWNHAM

International class [B65D49/04](#) (Advanced/Invention);
(IPC 8-9): [B65D49/00](#) (Core/Invention)

International class [B65D49/02](#)
(IPC 1-7):

CPC: [B65D49/04](#)

European class: [B65D49/04](#)

[Classification Explorer](#)

Abstract:

Source: GB124240A Bottles, non-refillable.— A cover A adapted to be secured to the mouth of a bottle by cement or a capsule is provided with internal projections forming guides for a ball valve C, and outlet grooves between them. The ball, when the bottle is upright, seats itself on a valve ring B which is free to move laterally to a slight extent. The cover has a tapered opening at its base as shown at the left hand of the Figure, and an outlet at the top.

400) Family number: 34721208 (BRMU8500197Y)

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Title: CONJUNTO DOSADOR COM LACRE, PARA FECHAMENTO DE GARRAFAS DE BEBIDAS FEEDER WITH SEAL ASSEMBLY FOR BEVERAGE BOTTLES CLOSURE (Machine translation)

Priority: BR2005MU00197U 20050201

Family:	Publication number	Publication date	Application number	Application date
	BRMU8500197 U	20060926	BR2005MU00197U	20050201
	BRMU8500197 Y1	20160329	BR2005MU00197U	20050201

Probable Assignee: COSTA JOAQUIM ALFREDO GOMES DA

Assignee(s):^(std) COSTA JOAQUIM ALFREDO GOMES DA

Assignee(s): JOAQUIM ALFREDO GOMES DA COSTA

Inventor(s):^(std) COSTA JOAQUIM ALFREDO GOMES DA

Inventor(s): JOAQUIM ALFREDO GOMES DA COSTA

International class [B65D47/18](#) (Advanced/Invention);
(IPC 8-9): [B65D47/06](#) (Core/Invention)

International class [B65D47/18](#)
(IPC 1-7):

[Classification Explorer](#)

Abstract:

Source: BRMU8500197Y RESUMO "CONJUNTO DOSADOR COM LACRE, PARA FECHAMENTO DE GARRAFAS DE BEBIDAS" cuja tampa (!) possui, superi o rmente, um painel anelar (8) roscado externam ente, ladeando o bico dosado r (5), seguido, apos breve espaco (9), por uma einta-lacre (10) incorporada por pontos de enfraquecimento (11), circundando a borda periferica da tampa (1), fixando-se, entre a cinta-lacre (10) e o painel anelar (8), por meio de ressaltos alternados (14) e (17) e roscas (16a) e (8a), uma sobretampa (15), sendo impedida de ser girada para a abertura da garrafa. Somente apos rompida e retirada a einta-lacre (10), desfaz-se o travamento pelos ressaltos alternados (14) e (17), sendo a sobretampa (15) liberada para ser desrosqueada pelas suas roscas (16a) e roscas (8a) do painel anelar (8), liberando o bico dosador (5), para retirada do liquido, alem de possibilitar abertura e refeitamento da garrafa. Cviw J:"nui"> | • \$ F' SUMMARY "FEEDER CONJUNCTION WITH SEAL, BEVERAGE BOTTLES OF CLOSING" whose cover (!) Has, superi the rmente, an annular panel (8) threaded externalize one, on either side of the nozzle dosed r (5), followed, after short space (9), by a einta-seal (10) incorporated by weakening points (11), surrounding the peripheral edge of the cover (1), standing between the strap-seal (10) and the annular panel (8) by means of alternating projections (14) and (17) and threads (16a) and (8a) an overcap (15) being prevented from being rotated to open the bottle. Only after disrupted and withdrawn einta-seal (10), the locking is undone by alternating projections (14) and (17), the overcap (15) released to be unscrewed by their threads (16a) and threads (8a) the annular panel (8), releasing the injector nozzle (5) to remove the liquid, in addition to allow opening and reclosing of the bottle. Cviw J: "nui 'and gt; | • \$ F'

0) GB191218880A – IMPROVEMENTS IN OR RELATING TO STOPPERS OR CLOS...

401) Family number: 37018535 (GB191218880A)

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Title: Improvements in or relating to Stoppers or Closure Members for Bottles and the like.

Priority: 19120817

Family:	Publication number	Publication date	Application number	Application date
	<u>GB191218880 A</u>	19130522		00000000

Probable Assignee: HILL JOHN

Assignee(s):^(std): HILL JOHN

Assignee(s): JOHN HILL

Inventor(s):^(std): HILL JOHN

Inventor(s): JOHN HILL

International class B65D39/12 (Advanced/Invention);
(IPC 8-9): B65D39/00 (Core/Invention)

CPC: B65D39/12

European class: B65D39/12

[Classification Explorer](#)

Abstract:

Source: GB191218880A (Claim 1) 1.

402) Family number: 20553730 (GB695839A)

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Title: Improvements in or relating to containers**Priority:** GB19510017889 19510727

Family:	Publication number	Publication date	Application number	Application date
	<u>GB695839 A</u>	19530819	GB19510017889	19510727

Probable Assignee: METAL BOX CO LTD**Assignee(s):^(std):** METAL BOX CO LTD**Assignee(s):** THE METAL BOX COMPANY LIMITED**Inventor(s):^(std):** JACKSON JOHN MAXWELL

International class B65D51/00 (Advanced/Invention);
^{(IPC 8-9):} B65D51/00 (Core/Invention)

International class A61J1/06
^{(IPC 1-7):}

CPC: B65D51/002**European class:** B65D51/00B[Classification Explorer](#)**Forward Citations:** EP0364783, DE8906346,**Abstract:**

Source: GB695839A 695,839. Closure caps. METAL BOX CO., Ltd. May 19, 1952 [July 27, 1951; Jan. 3, 1952], Nos. 17889/51 and 284/52. Class 125(iii) A closure for sealing a container for a therapeutic preparation or for a hydroscopic substance comprises a thin metal cap having a crown apertured for the passage of a hypodermic needle, and c., a skirt depending from the crown for clamping over a shoulder on the container and a plasticized and cured resin seal adhering to the crown and sides of the cap and sealing the aperture in the cap, the thickness of the seal being such as to render it impermeable and self-sealing to punctures. The cap comprises a crown 1, skirt 3, the lower edge of which may be beaded as at 6 or plain but adapted to be pressed inwardly over a shoulder on the container, and an aperture 2. Adhering to the crown 1 and skirt 3 is a resin seal 7 which is adapted to be punctured by a hypodermic needle. A thin metal foil layer 12 may be provided which is also puncturable by the needle or the aperture may be closed by a removable impermeable cover. Fig. 10 shows a method and apparatus for manufacturing the closures. A rotary table 16 is provided with a cavity 15 the bottom of which is provided with an axially movable plunger 17, 18. The resin paste is delivered by a nozzle 19 into the inverted cap and the table 16 then carries the filled cap through an oven having the required temperature for curing and sterilizing purposes. Subsequently the treated cap is raised by the plunger 17, 18 and cooled by an air jet from another nozzle.

0) ES274756U – CIERRE HERMETICO PARA FRASCOS IT CLOSES HERMET...

403) Family number: 29488204 (ES274756U)

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Title: CIERRE HERMETICO PARA FRASCOS IT CLOSES HERMETIC FOR BOTTLES
(Machine translation)

Priority: ES19830274756U 19831003

Family:	Publication number	Publication date	Application number	Application date
	ES274756 U	19840116	ES19830274756U	19831003
	ES274756 Y	19840901	ES19830274756U	19831003
	ES274756 Y1	19840928	ES19830274756U	19831003

Probable Assignee: LABORATORIOS ERN SA

Assignee(s): LABORATORIOS ERN S A ; LABORATORIOS ERN SA

International class [B65D51/20](#) (Advanced/Invention);
(IPC 8-9); [B65D51/18](#) (Core/Invention)

International class [B65D51/20](#)
(IPC 1-7);

[Classification Explorer](#)

Abstract:

Source: ES274756U 1.Cierre hermetico para frascos, preferentemente, del tipo que comprende un ensanchamiento en el extremo del cuello del frasco, a modo de cazoleta, en cuyo interior ajusta un obturador elastico perforable, asegurado por medio de un envoltente en forma de precinto, caracterizado esencialmente por el hecho de que en la cara interna del obturador ajusta una capsula rigida y perforable, que evita el contacto del contenido del frasco con el obturador, cuya capsula esta dotada de un resalte anular externo que se apoya contra el fondo de la cazoleta, al tiempo que el obturador presenta un entrante anular complementario en su canto interno, en el que encaja dicho resalte, formando cierre hermetico. 2.Cierre hermetico para frascos.

Machine translation: 1.Cierre hermetic for bottles, preferredly, of the type that includes/understands a widening in the end of the neck of the bottle, as a cazoleta, in whose interior it fits a perforable elastic stopper, surrounding insured by means of in form of seal, characterized essentially by the fact that in face internal of stopper fits capsule rigid and perforable, that avoids the contact of the content of the bottle with the stopper, whose capsule this equipped with an external annular projection that leans against the bottom of the cazoleta, to the time that the stopper presents/displays a complementary annular entrant in its internal song, in that fits this stand out, forming hermetic closing. 2.Cierre hermetic for bottles.

404) Family number: 3863179 (FR2449612A)

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Title: DISPOSITIF DE FERMETURE A BUSE BASCULANTE POUR RECIPIENT PRESSURISE
STOPPER FOR PRESSURISED BOTTLE – HAS FLEXIBLE DELIVERY DUCT WITH
FIXED FINGER RELEASABLY CLOSING VALVE

Priority: FR19790004281 19790220

Family:	Publication number	Publication date	Application number	Application date
	FR2449612 A1	19800919	FR19790004281	19790220
	FR2449612 B1	19830128	FR19790004281	19790220

Probable Assignee: OREAL

Assignee(s):^(std): OREAL

Inventor(s):^(std): HARDOUIN YVES ; MORANE BRUNO

Inventor(s): BRUNO MORANE ET YVES HARDOUIN

International class
^{(IPC 8-9):} [B65D83/14](#) (Advanced/Invention);
[B65D83/14](#) (Core/Invention)

International class
^{(IPC 1-7):} [B65D47/08](#) [B65D83/14](#)

CPC: [B65D83/46](#)

European class: [B65D83/46](#)

[Classification Explorer](#)

Cited documents: US3489323, US3186683, US2831620, FR2243739, DE2703190,

Forward Citations: US5090402,

Abstract:

Source: FR2449612A DISPOSITIF DE FERMETURE POUR RECIPIENT PRESSURISE. CE DISPOSITIF DE FERMETURE COMPORTE UN CHAPEAU DE DISTRIBUTION CONSTITUE D'UNE BUSE BASCULABLE ET D'UNE JUPE DE FIXATION, QUI COOPERE AVEC LE GOULOT DU RECIPIENT; L'ORGANE D'OBTURATION, QUI EST LOGE A L'INTERIEUR DE LA BUSE DE DISTRIBUTION, A L'UNE DE SES EXTREMITES QUI OBTURE L'ORIFICE D'EJECTION DE LA BUSE, SON AUTRE EXTREMITÉ ÉTANT FIXÉE A L'INTERIEUR DU GOULOT. DESTINÉ A ÉQUIPER UN RECIPIENT PRESSURISÉ, A L'INTERIEUR DUQUEL EST CONDITIONNÉ UN PRODUIT LIQUIDE QUE L'ON DESIRE DISTRIBUER SOUS UNE FORME DIVISÉE OU A L'ÉTAT DE MOUSSE. The container stopper has an outer cover (4) held by an internal ring (9) fitting in a groove (3) in the bottle neck. The stopper has an internal sleeve (13) with rings (14) which fit and seal off the end of the container. The stopper has an external finger (4) which contains a valve (16) held on the shoulder of the ring (17). The valve is closed by the plug (19). The top end of the valve sits inside the finger and the plug (19) fits inside the hole (12). The valve is opened by moving the finger sideways.

0) US3464575A – CONTAINER CLOSURE

405) Family number: 597757 (US3464575A)

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Title: CONTAINER CLOSURE

Priority: GB19680003959 19680125 US19670612000 19670126

Family:	Publication number	Publication date	Application number	Application date
	<u>AU206949162 A1</u>	19700723	AU19690049162	19690116
	<u>ES349687 A1</u>	19691001	ES19680349687	19680124
	<u>FR1553290 A</u>	19690110		19680125
	<u>GB1217884 A</u>	19701231	GB19680003959	19680125
	<u>US3464575 A</u>	19690902	US19670612000	19670126

Probable Assignee: PHILLIPS PETROLEUM CO

Assignee(s):^(std): PHILLIPS PETROLEUM CO

Assignee(s): SEALRIGHT CO INC ; PHILIPS PETROLEUM CO ; PHILIPS PETROLEUM COMPANY

Inventor(s):^(std): ARSLANIAN VINCENT ; WEBER WILLIAM J

Inventor(s): WILLIAM J WEBER ; OLIVER TEMPLE GRIFFIN AND JOHN ANTHONY COLLIER ; VINCENT ARSLANIAN

International class
(IPC 8-9): [B65D41/02 B65D51/16 C12C1/18](#) (Advanced/Invention);
[B65D41/02 B65D51/16](#) (Core/Invention)

International class
(IPC 1-7): [B65D39/00 B65D39/04 B67B](#)

CPC: [B65D41/023 B65D51/1666 B65D2543/00027](#)

European class: [B65D41/02B B65D51/16D3B L65D543/00Y1A](#)

US class: [215/320 215/353 215/41](#)

[Classification Explorer](#)

Cited documents: US3343698 A, US3335901 A, US3263724 A, US2934232 A, US2922563 A, US2808957 A, US2286070 A, US1710363 A, US1619509 A,

Forward Citations: WO11143754, US4387818, US3809280, US3667079, FR3002520,

Abstract:

Source: US3464575A ABSTRACT OF THE DISCLOSURE A resilient container closure having a thickened discoidal stopper portion, serving to reinforce sealing of the cap inside the container opening, and an enclosing cap portion which seals against the outer diameter of the container opening.

0) EA012714B – SAFETY ARRESTER FOR A BOTTLE

406) Family number: 44315264 (EA012714B)

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Title: SAFETY ARRESTER FOR A BOTTLE

Priority: EA20080001258 20080603

Family:	Publication number	Publication date	Application number	Application date
	EA012714 B1	20091230	EA20080001258	20080603
	EA200801258 A1	20091230	EA20080001258	20080603

Probable Assignee: BIRYUKOV NIKOLAY PETROVICH

Assignee(s):^(std): BIRYUKOV NIKOLAY PETROVICH ; PAKHOMOV DMITRY IVANOVICH

Inventor(s):^(std): BIRYUKOV NIKOLAY PETROVICH ; PAKHOMOV DMITRY IVANOVICH

International class [B65D39/04](#) (Advanced/Invention);
(IPC 8-9). [B65D39/00](#) (Core/Invention)

[Classification Explorer](#)

Cited documents: SU1655856 T, RU3594 U1, RU2294303 C1, MD2212 G2, FR2829471 A1, EP1886931 A1,

Abstract:

Source: EA012714B Safety arrester for a bottle comprises a body with annular sealing on the external side and penetrating cavity, blocked by shutoff valve from the one face of the body, located in the cavity of the body, and by hollow insert from the other face with channels for passage of the liquid, with a central projection, a removable cap with sealing annular projection. On the internal face surface of the removable cap resilient external and internal annular projections are made, separated by annular groove with a possibility of accommodation of said projections in it during working independently for fixation with hollow insert and also during assembling of the product and reusing and besides hollow insert is made with conical sealing smooth surface, on the face surface of the body an annular flange for fixation the body on the external rim of the neck ring of the capacity is made with a possibility of protection the hollow insert from deformation and breaking during closing.

0) RU89843U – GASKET FOR AIRTIGHT CLOSED BOTTLE (MACHINE TR...

407) Family number: 44401612 (RU89843U)

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Title: Gasket for airtight CLOSED BOTTLE (Machine translation)

Priority: RU20090123122U 20090617

Family:

Publication number	Publication date	Application number	Application date
<u>RU89843 U1</u>	20091220	RU20090123122U	20090617

International class B65D41/00 (Advanced/Invention);
(IPC 8-9): B65D41/00 (Core/Invention)

[Classification Explorer](#)

Abstract:

Source: RU89843U

Machine translation: Gasket for airtight closing bottles, including a housing with a vertically oriented cylindrical hollow parts made with the bottom of a round shape and a hole by hole to the hollow cylindrical part of the housing adjacent flat horizontally-oriented part of the case in the form of a ring with an arbitrary diameter, with hole in the ring, echoing the horizontal section of the cylindrical hollow body, a hollow cylindrical casing made with external and internal projections horizontally oriented with the location of at least one outdoor and at least one inner lip along the entire height of the cylindrical hollow portion of the housing, with the cylindrical hollow portion housing is configured to install it into the neck of the bottle with any possible future installation of its cylindrical hollow portion of any plugs for closing bottles with stoppers ensure tight junction.

Title: Hollow articles
Priority: GB19880005450 19880308

Family:	Publication number	Publication date	Application number	Application date
	GB2216506 A1	19891011	GB19890005203	19890307
	GB2216506 B2	19920506	GB19890005203	19890307
	GB8805450 A0	19880407	GB19880005450	19880308
	GB8905203 A0	19890419	GB19890005203	19890307

Probable Assignee: BXL PLASTICS LTD

Assignee(s):^(std): BXL PLASTICS LTD

Assignee(s): BXL PLASTICS LIMITED

Inventor(s):^(std): LOOMES STEPHEN ROY

Inventor(s): STEPHEN ROY LOOMES

International class [B29C37/00 B29C45/44 B65D47/14](#) (Advanced/Invention)
 (IPC 8-9):

International class [B29C33/44 B65D39/00](#)
 (IPC 1-7):

CPC: [B29C37/0014 B29C45/4407 B29C2045/4414 B29L2031/565 B65D47/147](#)

European class: [B29C37/00B3 B29C45/44B B65D47/14D L29C45/44B1 L29L31/56B](#)

[Classification Explorer](#)

Cited documents: GB770383, GB714758, GB661158, GB645293, GB539891, GB1209295,

Forward Citations: WO0046092, US6488436, FR2789359, EP1149011, EP0949055,

Abstract:

Source: GB2216506A In a moulded hollow article 1, such as a bottle closure, having an end wall 2 and a side wall 4 at least a part of the side wall is interrupted along at least one line 8 extending from a free end of the side wall and at least part way towards the end wall. Preferably the article is moulded using cooperating female and core moulds, the female and/or the core mould having at least one upstanding component and the moulding surface(s) to produce the line 8, which permits the side wall to be flexed to assist in separation of the core mould and article.

Title: TAPON DE SEGURIDAD SECURITY CORK (Machine translation)**Priority:** ES19860294904U 19860619

Family:	Publication number	Publication date	Application number	Application date
	ES294904 U	19861016	ES19860294904U	19860619
	ES294904 Y	19870701	ES19860294904U	19860619
	ES294904 Y1	19870729	ES19860294904U	19860619

Probable Assignee: CAMP DE JABONES FAB SA**Assignee(s):** CAMP DE JABONES FAB SA ; S A CAMP FABRICA DE JABONES

International class [B65D39/00](#) (Advanced/Invention);
 (IPC 8-9) [B65D39/00](#) (Core/Invention)

International class [B65D39/00](#)
 (IPC 1-7)

[Classification Explorer](#)**Abstract:**

Source: ES294904U Tapon de seguridad, caracterizado esencialmente por el hecho de que consta de un cuerpo interior u obturador, con medios de acoplamiento giratorio y de cierre hermetico respecto al cuello y boca del frasco, dotado en su superficie exterior de unos resaltes de perfil externo arqueado y de grueso creciente en el sentido de desenroscar el obturador, alrededor del cual esta montado un capuchon giratorio libremente e inmovilizado axialmente, de contorno interno ventajosamente troncoconico, de paredes laterales ligeramente elasticas, separado del contorno externo del tapon, dotado a su vez de unos resaltes internos a la misma altura que los del obturador, a los que pueden rebasar a friccion al girar en sentido de desenroscarlo contra los que quedan interceptados al girar en sentido contrario.

Machine translation: Cork of security, characterized essentially by the fact that it consists of an inner body or stopper, with means of revolving connection and hermetic closing with respect to the neck and mouth of the bottle, equipped in his outer surface of projections of external profile bent and increasing thickness in the sense to unscrew the stopper, around which this mounted a revolving and freely immobilized hood axially, of advantageously trunkated cone, elastic sidewalls, slightly separated internal contour of the external contour of the cork, equipped as well with internal projections to the same height that those of the stopper, to which they can escape to friction when turning in sense to unscrew it against which they are intercepted when turning in opposite sense.

410) Family number: 9909265 (WO9633749A1)

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Title: DEVICE FOR VAPORISING AROMATIC OR PARAMEDICAL PERFUMES OR ACTIVE AGENTS**Priority:** CH19950001205 19950427

Family:	Publication number	Publication date	Application number	Application date
	<u>WO9633749 A1</u>	19961031	WO1996CH00149	19960424

Probable Assignee: WEICK HEINZ HERMANN**Assignee(s):**^(std): WEICK HEINZ HERMANN**Inventor(s):**^(std): WEICK HEINZ HERMANN**Designated states:** AT BE CH DE DK ES FI FR GB GR IE IT JP KR LU MC NL PT SE

International class A61L9/12 B65D23/00 (Advanced/Invention);
^{(IPC 8-9):} A61L9/12 B65D23/00 (Core/Invention)

International class A61L9/12 B65D23/00
^{(IPC 1-7):}

CPC: A61L9/12 B65D23/00**European class:** A61L9/12 B65D23/00[Classification Explorer](#)**Cited documents:** US5088948 A, FR1087967 A, EP0330392 A1, CH680266 A3, CH680266,**Forward Citations:** FR2768929, DE10036044,**Abstract:**

The device is used to vaporise perfumes of the most widely differing natures and effect. It essentially comprises a chemical-resistant plastic base (1), at least one vaporising cylinder (5, 6) and a bottle-like active agent reservoir (3) from which a wick-like vaporising nozzle projects into the vaporizing cylinder(s) (5, 6). The use of plastic offers wide scope to the designer. The stability of a plastic base (1), however, is much lower than that of a thick-walled glass base, owing to its light weight. On falling over, a vaporiser at least partially leaks, resulting not only in the loss of expensive substances but also in staining. To obviate this drawback, an annular metal disc (8) is fitted as a weighting device inside the base region plane-parallel to the base surface (1d). It is secured in place simply by pressing the two half-sections (1b, 1c) together. The additional weight provided by the annular disc (8) and its low position provide greater stability than if glass is used as the base material. Besides practical advantages, this also increases the devices's decorative attraction.

0) US3881621A – PLASTIC CONTAINER WITH NONEVERTING BOTTOM

411) Family number: 1137192 (US3881621A)

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Title: Plastic container with noneverting bottom

Priority: US19730375310 19730702

Family:	Publication number	Publication date	Application number	Application date
	<u>US3881621 A</u>	19750506	US19730375310	19730702

Probable Assignee: CONTINENTAL CAN CO

Assignee(s):^(std): CONTINENTAL CAN CO

Assignee(s): CONTINENTAL CAN COMPANY INC

Inventor(s):^(std): ADOMAITIS DOMAS

International class
(IPC 8-9): B29C49/00 B29C49/04 B65D1/02 (Advanced/Invention),
B29C49/00 B29C49/04 B65D1/02 (Core/Invention)

International class
(IPC 1-7): B65D1/02 B65D23/00

CPC: B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29C49/0073
B29C49/04 B65D1/0284

European class: B29C49/00G B29C49/04 B65D1/02D2 B65D1/02D2E L29B911/14B2B L29B911/14B2D
L29B911/14B2F L29B911/14B2H L29C49/04

US class: 215/12.1 215/1C 215/373 220/606 D9/500 D9/520

[Classification Explorer](#)

Cited documents: US3811588 A, US3759410 A, US3722726 A, US3720339 A, US3718229 A, US3655084 A, US3643829 A, US3511401 A, US3043461 A,

Forward Citations: WO0012289, WO0002783, USRE36639, USD761656, USD760590, USD611822, USD569271, USD546183, USD478287, USD478286, USD472474, USD454790, USD454073, USD448677, USD423942, USD419444, USD418414, US9580206, US9051098, US8671655, US7637082, US7562510, US7409794, US7159374, US6769561, US6296471, US6213325, US5988416, US5853829, US5804227, US5599496, US5482170, US5427258, US5205434, US5160059, US5080244, US5038947, US5024340, US4997692, US4989738, US4978015, US4969563, US4927679, US4892205, US4889752, US4865206, US4785948, US4780257, US4573597, US4525401, US4403706, US4355728, US4352435, US4334627, US4318489, US4301933, US4231483, US3973693, US2013270214, US2011089058, US2010012617, US2009120038, US2007045312, US2006059764, US2005155325, US2003116525, RU2469845, FR2440877, EP0751071, EP0577155, EP0293147, EP0277557, EP0029639,

Abstract:

Source: US3881621A A plastic container having a lower side wall of ogival configuration merging into a bend-load resistant thickened annulus at the juncture of a base of a conical inverted dome center section of the bottom.

Title: Improvements in or relating to vacuum flasks**Priority:** GB19580029412 19580913

Family:	Publication number	Publication date	Application number	Application date
	<u>DE1292336 B</u>	19690410	DE1959L034201	19590912
	<u>GB927788 A</u>	19630606	GB19580029412	19580913

Probable Assignee: LAURANCE LESLIE SMITH**Assignee(s):**^(std) LAURANCE LESLIE SMITH ; LESLIE SMITH LAURANCE

International class
 (IPC 8-9): A47J41/00 A47J41/02 B65D47/12 (Advanced/Invention);
A47J41/00 B65D47/12 (Core/Invention)

International class
 (IPC 1-7): A47J41/02

CPC: A47J41/0011 A47J41/02 B65D47/121 B65D47/123**European class:** A47J41/00C1 A47J41/02 B65D47/12A B65D47/12B1[Classification Explorer](#)**Cited documents:** US2785841, US2742170, DE957423, DE1147728, CH240554 A3, CH221801 A3, CH168413 A3,**Abstract:**

Source: GB927788A 927,788. Stoppers. L. LESLIE-SMITH. Sept. 14, 1959 [Sept. 13, 1958], No. 29412/58. Class 125(3). [Also in Group XIII] A stopper 5 for a vacuum flask screws into or on to a pouring lip 1 and both the stopper and pouring lip have inclined surfaces 9 and 4 which engage when the stopper is screwed in. The inclined surfaces may be formed by a groove in the stopper and a projection on the lip and the stopper may screw on to the outside of the lip. The mating surfaces may be inclined at different angles when one or both of the surfaces are deformable. According to the Provisional Specification the lip may have threads on both its inside and outside and a stopper to coact with both threads may then be used. Specifications 885,987 and 885,990 are referred to.

0) GB395080A – IMPROVEMENTS IN CLOSURES FOR BOTTLES AND LIKE C...

413) Family number: 20603176 (GB395080A)

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Title: Improvements in closures for bottles and like containers

Priority: GB19320006309 19320302

Family:	Publication number	Publication date	Application number	Application date
	<u>GB395080 A</u>	19330713	GB19320006309	19320302

Probable Assignee: JAMES WILLIAM BARBER

Assignee(s):^(std): JAMES WILLIAM BARBER

International class
(IPC 8-9): B65D39/08 (Advanced/Invention);
B65D39/00 (Core/Invention)

International class
(IPC 1-7): B65D39/16

CPC: B65D39/08

European class: B65D39/08

[Classification Explorer](#)

Forward Citations: US2549404,

Abstract:

Source: GB395080A 6309. [Class 125 (iii).] A screw-threaded internal bottle stopper consists of a hollow moulding of synthetic resin or similar plastic material, and a method of making the same consists in moulding the body portion of the stopper with a cavity of T-shaped cross-section and then closing the opening of the cavity with a disc. The disc 3 may be placed in position, when cold, in the hot body portion and secured therein by contraction of the body portion on cooling.

414) Family number: 22168175 (US3083858A)

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Title: TEAR TYPE CONTAINER CLOSURE**Priority:** US19600040618 19600705

Family:	Publication number	Publication date	Application number	Application date
	<u>US3083858 A</u>	19630402	US19600040618	19600705

Probable Assignee: R C CAN CO**Assignee(s):^(std):** R C CAN CO ; R C CAN COMPANY**Inventor(s):^(std):** BIEDENSTEIN VINCENT G

International class
(IPC 8-9): B65D1/02 B65D17/34 B65D3/26 B65D35/44 B65D41/32 B65D51/20 B65D55/02
B65D85/72 (Advanced/Invention);
B65D1/02 B65D17/28 B65D3/00 B65D35/00 B65D41/32 B65D51/18 B65D55/02
B65D85/72 (Core/Invention)

International class
(IPC 1-7): B65D17/34 B65D35/44 B65D55/02

CPC: B65D1/0238 B65D17/161 B65D41/32 B65D51/20 B65D2251/0025 B65D2251/0093**European class:** B65D1/02D1A B65D17/16B B65D41/32 B65D51/20 L65D251/00Y2J L65D251/00Y6M**US class:** 215/48 215/50 220/265 D9/438 D9/443[Classification Explorer](#)**Cited documents:** US906157 A, US2750068 A, US2392195 A, US1327190 A, US1080747 A, IT562640 A, FR70174 E, FR1147313 A, DE1057012 B,

Forward Citations: WO9800177, USRE38150, US7540389, US6409032, US6068148, US5909845, US5906288, US5348183, US5348182, US5174465, US4953728, US4942978, US4895298, US4705186, US4687111, US4671420, US4643309, US4620641, US4434907, US4397879, US4295495, US4149651, US4146148, US4125186, US4055282, US3957168, US3902619, US3730376, US3688934, US3667638, US3635234, US3544338, US3494500, US3370757, US3346230, US3300081, US3251499, US3195767, US3187931, US3187930, US3184096, US3128900, US2008283530, US2007007227, JP2008526465, FR2517636, FR2433466, EP0907383, DE3727589, DE3727589, DE3244459, DE2931063, DE2849681, CN103950635,

Abstract:

Source: US3083858A (Claim 1) 1. A container comprising in combination a container body, an opening in said container body, a closure receiver part on said container body extending around said opening in said container body, means forming a surface extending around said closure receiver part, a closure part for said container, means forming a surface extending around said closure part which surface is shaped and dimensioned to provide a telescopic fit between said closure receiver part and said closure part by relative sliding between said surfaces, and a frangible web of flexible rubber-like material integrally connecting said parts which are of comparatively greater size and strength than said web and forming a tear type of frangible connection between a portion of each of said surfaces about their circumferences so as to hold said closure part in operative position on said receiver part, means to move said closure part with respect to said receiver part in a direction away from said receiver part to forcibly break said frangible web in such a manner so that at least a portion of said frangible web will remain around one of said parts, said portion of said frangible web remaining on said part being wedgingly engaged between said surfaces when said closure part is reapplied to said container by forcing said parts together into telescopic relation while both parts face the same way as before separation.

0) US3439826A – HOLLOW SEALED STOPPER WITH INTERIOR STORAGE SPA...

415) Family number: 373622 (US3439826A)

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Title: HOLLOW SEALED STOPPER WITH INTERIOR STORAGE SPACE
Priority: ES19670346036 19671013 IT19660042091 19661013 IT19670039964 19671010
IT19660757402 19661013

Family:	Publication number	Publication date	Application number	Application date
	<u>DE1607855 A1</u>	19700924	DE19671607855	19671012
	<u>ES346036 A1</u>	19690316	ES19670346036	19671013
	<u>FR1552945 A</u>	19690110		19671013
	<u>US3439826 A</u>	19690422	US19670005241	19671013

Probable Assignee: FRESU

Assignee(s):^(std): FRESU ; FRESU MICHELINO ; MICHELINO FRESU

Assignee(s): FRESUMICHELINO

Inventor(s):^(std): FRESU MICHELINO

Inventor(s): FRESUMICHELINO ; MICHELINO FRESU

International class
(IPC 8-9): B65D39/12 B65D51/28 (Advanced/Invention);
B65D39/00 B65D51/24 (Core/Invention);
B67B (Subclass/Invention)

International class
(IPC 1-7): B65D39/00 B65D39/02 B65D41/02 B65D81/32

CPC: B65D39/12 B65D51/28

European class: B65D39/12 B65D51/28

US class: 215/227 215/358 215/48

[Classification Explorer](#)

Cited documents: US3073473 A, US2439628 A,

Forward Citations: US5211206, ITGE20110064,

Abstract:

Source: FR1552945A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. cavite, une piece d'obturation 27 qui, en raison de la pression exercee par la capsule 6, assure la fermeture hermetique de la cavite 1.

Machine translation: (Claim 1) ** WARNING ** start of CLMS field may contain end of DESC **. cavity, a filling piece 27 which, because of the pressure exerted by the capsule 6, ensuring the hermetic closure of the cavity 1.

0) US4711360A – SPLASH-PROOF CLOSURE

416) Family number: 5453021 (US4711360A)

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Title: Splash-proof closure

Priority: US19870022927 19870226

Family:	Publication number	Publication date	Application number	Application date
	<u>US4711360 A</u>	19871208	US19870022927	19870226

Probable Assignee: BOARDMAN MOLDED PRODUCTS INC

Assignee(s):^(std): BOARDMAN MOLDED PRODUCTS INC

Assignee(s): BOARDMAN MOLDED PRODUCTS INC 1110 THALIA AVENUE YO

Inventor(s):^(std): ULLMAN MYRON

International class
(IPC 8-9): B65D43/24 B65D47/08 (Advanced/Invention);
B65D43/14 B65D47/08 (Core/Invention)

International class
(IPC 1-7): B65D43/16

CPC: B65D43/24 B65D47/0828

European class: B65D43/24 B65D47/08B3

US class: 215/235 220/335 222/517 222/546

[Classification Explorer](#)

Cited documents: US4625898 A, US4386714 A, US4346810 A, US4220248 A, US4158902 A, US4010875 A,

Forward Citations: WO16135226, US9376243, US8365933, US7958703, US7621413, US7510095, US7243816, US7100806, US7000792, US6520370, US6415965, US6318605, US6257431, US5950848, US5788064, US5328058, US5246145, US5038957, US4917253, US4813560, US4793501, US2008289984, US2006037978, US2005218105, US2004159661, EP2512948, EP2512948, EP1582476, EP0548457, AU2010340047,

Abstract:

Source: US4711360A A splash-proof closure for use with liquid holding containers is a one-piece molded structure and includes a body portion with a cap portion, and a hinge integrally formed therebetween. The body portion includes a liquid outlet and a vertically, integrally formed, upwardly extending cap-stopping resilient post for preventing the cap portion from moving towards the liquid outlet during the dispensing mode. The cap portion includes a somewhat domed upper wall which acts as a cam for bending the cap-stopping post at a 45 DEG angle to the body portion when the cap portion is closed, and a closing post integrally formed on the domed wall interior for sealing the liquid outlet when the cap portion is closed on the body portion. The liquid outlet, the cap-stopping post, the closing post and the hinge are all generally along the same line, perpendicular to the hinge axis.

417) Family number: 25078285 (DE7021712U)

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Title: VERPACKUNG AUS SCHAUMKUNSTSTOFF, INSBESONDERE FUER FLASCHEN.**Priority:** FR19656003244 19651129 FR19690019244 19690612

Family:	Publication number	Publication date	Application number	Application date
	<u>CH461358 A</u>	19680815	CH19660016605	19661118
	<u>CH511743 A</u>	19710831	CH19700008541	19700608
	<u>DE7021712 U</u>	19700910	DE19700221712U	19700610
	<u>FR2049453 A6</u>	19710326	FR19690019244	19690612

Probable Assignee: SAMPEX STE**Assignee(s):**^(std) SAMPEX S A ; SAMPEX STE**Inventor(s):**^(std) ROLAND GANDONNIERE**Inventor(s):** GANDONNIERE ROLAND

International class [B65D25/02 B65D81/02](#) ^(Advanced/Invention);
^(IPC 8-9) [B65D25/02 B65D81/02](#) ^(Core/Invention)

International class [B65D11/00 B65D25/12 B65D3/10 B65D33/16 B65D8/00 B65D81/06 B65D85/42](#)
^(IPC 1-7)

CPC: [B65D25/02 B65D81/022](#)**European class:** [B65D25/02 B65D81/02A](#)[Classification Explorer](#)**Abstract:**

Source: DE7021712U (Claim 1) Schutzansprueche er Endflaechen des Innenraumes ein Einsatzstueck aus unzerbrechlichem Material von etwa # -foermigem Querschnitt befindet, dadurch gekennzeichnet, dass das Einsatzstueck (7) aus einer Kunststoffplatte (7a) von vorzugsweise kreis- foermigem Umriss besteht, die eine laengliche Vertiefung (7b) aufweist, wobei oie ertiefung (7b) im Bezug auf ihre Laengs- richtung asymmetrisch zur Kunststoffplatte (7a) angeordnet ist.

418) Family number: 619126 (BR6200389U)

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Title: AGRUPADOR PORTATIL E DIVISIVEL DE EMBALAGENS COLLATOR LAPTOP AND PACKAGING DIVISIVEL (Machine translation)**Priority:** BR19820000389U 19820325

Family:	Publication number	Publication date	Application number	Application date
	<u>BR6200389 U</u>	19831101	BR19820000389U	19820325

Probable Assignee: MEAD MARKETING EMBALAG LTDA**Assignee(s):^(std):** M E A D MARKETING EMBALAGENS A ; MEAD MARKETING EMBALAG LTDA**Assignee(s):** MEAD MARKETING EMBALAGENS ADMINISTRACAO E DESENVOL ; M E A D MARKETING EMBALAGENS ADMINISTRACAO E DESENVOLVIMENTO LTDA**Inventor(s):^(std):** OMAIR VIANNA ; VIANNA OMAIR

International class B65D81/05 (Advanced/Invention) ;
 (IPC 8-9) B65D81/05 (Core/Invention)

International class B65D81/16
 (IPC 1-7) :

[Classification Explorer](#)**Abstract:**

Source: BR6200389U tf •••••ss•••|••••ss•••|••••#|••• RESUMO Patente de Modelo de Utilidade: "AGRUPADOR PORTATIL E DIVISIVEL DE EMBALAGENS11. 0 presente modelo de utilidade refere-se a 5 agrupador portatil e divisivel de embalagens, que con- siste essencialmente num estojo divisivel em varios segmentos, cada um correspondente a uma embalagem uni- taria, ditas embalagens unitarias sendo agrupadas em uma ou duas fileiras, e o estojo sendo constituído por 10 uma cinta devidamente dobrada e recortada nas propor- coes e do tipo das embalagens a acondicionar, tais do- bras e recortes proporcionando faces laterais com al- cas, face superior com ou sem alca superior de trans- porte e com ou sem orificios para passagem de gargalos 15 de frascos ou garrafas acondicionados, sendo que a cin ta se adere por colagem as ditas embalagens, na parte superior e inferior das mesmas. Tf •••••... •••••| # | ••• SUMMARY patent of utility model: "PORTABLE and DIVISIVEL of COLLATOR EMBALAGENS11. 0 this utility model refers to 5 laptop and packaging divisivel ties, which con-system essentially in a case divisivel in several segments, each corresponding to a uni-taria, said unitarias packaging being grouped together in one or two rows, and the case being made by duly strap 10 1 folded and trimmed in proposing laws and the type of packaging the package such do-bras and cuttings providing sides with al Cass, the top face with or without FTAA trans-superior size and with or without holes for the passage of 15 bottle necks of bottles or bottles packed with cin ta adhered by those packages, glue on the top and bottom of the.

419) Family number: 3706364 (FR2346232A)

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Title: RECIPIENT EN FORME DE SAC POUR MATIERES EN VRAC BAG FOR CARRYING
FRAGMENTED BULK MATERIAL – WITH LOOPS STITCHED TO MATERIAL
SECTIONS FOLDED INTO S-SHAPES

Priority: FR19760009271 19760331

Family:	Publication number	Publication date	Application number	Application date
	FR2346232 A2	19771028	FR19760009271	19760331
	FR2346232 B2	19800328	FR19760009271	19760331

Probable Assignee: NATTRASS FRANK

Assignee(s):^(std): NATTRASS FRANK

International class
(IPC 8-9): [B65D88/16](#) (Advanced/Invention);
[B65D88/00](#) (Core/Invention)

International class
(IPC 1-7): [B65D33/14](#)

CPC: [B65D88/1612](#) [B65D88/1681](#)

European class: [B65D88/16F](#) [B65D88/16F16B](#)

[Classification Explorer](#)

Forward Citations: WO16078678,

Abstract:

Source: FR2346232A (Claim 1) 1.– Sac pour contenir et transporter des matieres en vrac a l'etat plus ou moins divise suivant le brevet principal, caracterise en ce que ce sac comporte une partie superieure et quatre boucles de levage separees, disposees autour de cette partie suprieure, chaque boucle presentant une partie saillante et deux branches espacees dont chacune est fixee a l'etoffe constitutive du sac en repliant cette etoffe selon une configuration en forme de S le long de pliures s'etendant depuis la partie superieure vers le fond du sac pour former trois epaisseurs superposees d'etoffe en piquant a travers les trois epaisseurs d'etoffe et la branche, l'une au moins des branches etant placee sur l'une des surfaces exposees de la section repliee. Bag for carrying fragmented bulk material comprises four separate loops disposed around the top of the bag, each consisting of a handle and two spaced-apart arms. Each arm is fixed to the material of the bag by folding a section of the material into an S shape along fold lines extending from the top of the bag towards the bottom to form three superimposed thicknesses of material. The three thicknesses and the arm are then stitched together, at least one of the arms being placed on one of the exposed surfaces of the folded section. Pref. the material of each loop has a width of at least 50 mm, while the material of the bag has a resistance to traction of at least 20 kg per linear cm.

Title: MISTER WATER CAP**Priority:** US20110066770 20110425 US20130467171F 20130916

Family:	Publication number	Publication date	Application number	Application date
	<u>US2012267400 AA</u>	20121025	US20110066770	20110425
	<u>USD741712 S1</u>	20151027	US20130467171F	20130916

Probable Assignee: MOHR GERRIE ANNE**Assignee(s):^(std):** MOHR GERRIE ANNE**Inventor(s):^(std):** MOHR GERRIE ANNE**Agent(s):** FRANK D**International class** B65D41/04 B65D47/00 (Advanced/Invention)
(IPC 8-9):**CPC:** A47G19/2266 B05B11/001 B05B11/0086**US class:** 220/288 222/331 D9/448**Locarno class:** 09/07[Classification Explorer](#)**Cited documents:** USD621706 S1, USD585760 S1, USD573017 S1, USD429948 S1, USD407313 S1, USD401150 S1, USD319188 S1, USD318427 S1, USD314513 S1, USD313788 S1, US6050457 A, US6010034 A, US5938081 A, US5568886 A, US5277340 A, US3117701 A, US2009283549 AA, US2007045217 AA, US2006273115 AA, US2006255003 AA,**Forward Citations:** WO15052620, USD787325, USD721962, USD714145, US9636696, US9038210, US2016214125,**Abstract:**

Source: US2012267400A The present invention relates generally to a replacement cap for disposable water bottles with drinking spout and a mist sprayer. More particularly it discloses a unique flexible thread arrangement to allow it to fit on both US and European standard bottle threads.

- **search:** SS4 TAC=(bottle or (beverage container)) and IC=B65D and FT=(((((internal* W3 (embossment or stopper or vented* or surfaces or projections)) W5 axial*) and neck) and PD<20140606 (Results 4)
- **List:** SS4 1-50 (TAC=(bottle or (beverage container)) and IC=B65D and FT=(((((internal* W3 (embossment or stopper or vented* or surfaces or projections)) W5 axial*) and neck) and PD<20140606) (Results 4)

1) Family number: 30141675 (US4343754A)

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Title: PROCESS AND APPARATUS FOR MOLDING LINERS IN CONTAINER CLOSURES

Priority: CA19800360433 19800917 CA19820407905 19820723 CA19820407931 19820723
 CA19860515832 19860812 EP19820106577P 19820720 JP19800502288 19800908
 EP19820106577 19820720 EP19820106577 19820720 CA19820515832 19820723
 US19810286375 19810726 US19810270241 19810604 JP19820127821 19820723
 US19830608318 19831201 US19810286375 19810724 US19820390346 19820622
 US19810310769 19811013 US19790077566 19790921 WO1980US01143 19800908
 US19790077584 19790921 WO1980US01142 19800908

Family:

Publication number	Publication date	Application number	Application date
<u>AR226863 A1</u>	19820831	AR19800282599	19800919
<u>AR230239 A1</u>	19840301	AR19820290077	19820723
<u>AU198063343 A1</u>	19810414	AU19800063343	19800908
<u>AU198063392 A1</u>	19810414	AU19800063392	19800908
<u>AU198285551 A1</u>	19830127	AU19820085551	19820702
<u>AU198285552 A1</u>	19830127	AU19820085552	19820702
<u>AU538906 B2</u>	19840830	AU19800063343	19800908
<u>AU540432 B2</u>	19841115	AU19800063392	19800908
<u>AU556794 B2</u>	19861120	AU19820085551	19820702
<u>AU560751 B2</u>	19870416	AU19820085552	19820702
<u>BR8008834 A</u>	19810630	BR19800008834	19800908
<u>BR8008835 A</u>	19810630	BR19800008835	19800908
<u>BR8204327 A</u>	19830719	BR19820004327	19820723
<u>BR8204330 A</u>	19830719	BR19820004330	19820723
<u>CA1168812 A1</u>	19840612	CA19800360433	19800917
<u>CA1190519 A1</u>	19850716	CA19820407905	19820723
<u>CA1215206 A1</u>	19861216	CA19820407931	19820723
<u>CA1289104 A1</u>	19910917	CA19820515832	19820723
<u>CA1289104 A2</u>	19910917	CA19860515832	19860812
<u>DE3070670 D1</u>	19850627	DE19803070670	19800919
<u>DE3070923 D1</u>	19850905	DE19803070923	19800919
<u>DE3237764 A1</u>	19830519	DE19823237764	19821012
<u>DE3277686 D1</u>	19871223	DE19823277686	19820720
<u>DE3279680 D1</u>	19890615	DE19823279680	19820720
<u>DE3280195 D1</u>	19900726	DE19823280195	19820720
<u>EP0025991 A1</u>	19810401	EP19800105619	19800919
<u>EP0025991 B1</u>	19850731	EP19800105619	19800919
<u>EP0026405 A2</u>	19810408	EP19800105620	19800919
<u>EP0026405 A3</u>	19811202	EP19800105620	19800919
<u>EP0026405 B1</u>	19850522	EP19800105620	19800919
<u>EP0072924 A1</u>	19830302	EP19820106577	19820720
<u>EP0072924 B1</u>	19890510	EP19820106577	19820720
<u>EP0073334 A1</u>	19830309	EP19820106576	19820720
<u>EP0073334 B1</u>	19871119	EP19820106576	19820720
<u>EP0224649 A1</u>	19870610	EP19860111058	19820720
<u>EP0224649 B1</u>	19900620	EP19860111058	19820720
<u>ES275170 U</u>	19840201	ES19820275170U	19820723
<u>ES275170 Y</u>	19841001	ES19820275170U	19820723

<u>ES275170 Y1</u>	19841031	ES19820275170U	19820723
<u>ES514301 A0</u>	19831201	ES19820514301	19820723
<u>ES514301 A2</u>	19831230	ES19820514301	19820723
<u>ES525302 A0</u>	19841001	ES19830525302	19830901
<u>ES525302 A2</u>	19841031	ES19830525302	19830901
<u>ES8400967 A1</u>	19840216	ES19820514301	19820723
<u>ES8500125 A1</u>	19850101	ES19830525302	19830901
<u>FR2514326 A1</u>	19830415	FR19820017157	19821013
<u>FR2514326 B3</u>	19840817	FR19820017157	19821013
<u>GB2102776 A1</u>	19830209	GB19820021566	19820726
<u>GB2102776 B2</u>	19850320	GB19820021566	19820726
<u>GB2108892 A1</u>	19830525	GB19820021565	19820726
<u>GB2108892 B2</u>	19850918	GB19820021565	19820726
<u>IT1156206 A</u>	19870128	IT19820068197	19821012
<u>IT8253786 U0</u>	19821012	IT19820053786U	19821012
<u>IT8268197 A0</u>	19821012	IT19820068197	19821012
JP1500044 C3	19890628	JP19820127822	19820723
JP1692038 C3	19920827	JP19820127821	19820723
JP1752393 C3	19930408	JP19870063657	19870318
<u>JP3053181 B4</u>	19910814	JP19820127821	19820723
<u>JP4022794 B4</u>	19920420	JP19870063657	19870318
<u>JP56501121 T2</u>	19810813	JP19800502226T	19800908
<u>JP56501315 T2</u>	19810917	JP19800502288T	19800908
<u>JP58030949 A2</u>	19830223	JP19820127821	19820723
<u>JP58051116 A2</u>	19830325	JP19820127822	19820723
<u>JP62122964 A2</u>	19870604	JP19860154307	19860702
<u>JP63044627 B4</u>	19880906	JP19800502288T	19800908
<u>JP63048704 B4</u>	19880930	JP19800502226T	19800908
<u>JP63048705 B4</u>	19880930	JP19820127822	19820723
<u>JP63096052 A2</u>	19880426	JP19870063657	19870318
<u>MX151062 A</u>	19840919	MX19800183841	19800908
<u>MX151733 A</u>	19850218	MX19800183842	19800908
<u>MX156662 A</u>	19880922	MX19820193741	19820726
<u>MX157545 A</u>	19881130	MX19820193643	19820719
<u>US4343754 A</u>	19820810	US19790077584	19790921
<u>US4378893 A</u>	19830405	US19810270241	19810604
<u>US4407422 A</u>	19831004	US19810310769	19811013
<u>US4418828 A</u>	19831206	US19810286375	19810724
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<u>US4545496 A</u>	19851008	US19830608318	19831201
<u>WO8100822 A1</u>	19810402	WO1980US01142	19800908
<u>WO8100838 A1</u>	19810402	WO1980US01143	19800908
<u>ZA8204808 A</u>	19830427	ZA19820004808	19820706
<u>ZA8205312 A</u>	19830727	ZA19820005312	19820723

Probable Assignee: HC IND

Assignee(s):^(std): HC IND

Assignee(s): H C PLASTIC INC ; HC IND INC ; H C PLASTIC INC A DE CORP ; H C INDUSTRIES INC
CRAWFORDSVILLE IND US ; WILDE SHELDON L ; MCCANDLESS THOMAS J ;
SAUNDERS ROBERT M ; EICHI SHII IND INC ; ETSUCHI SHII IND INC ; H C IND ; H C
IND INC ; H C IND INC A CORP INDIANA ; H C IND INC A CORP OF IN ; H C IND INC A

CORP OF IND ; H C IND INC AN CORP ; H C INDUSTRIES INC

Inventor(s):^(std): MACCANDLESS T ; MATSUKANDORES U TOOMASU JEI ; MATSUKANDORES U TOOMASU JEI ; MCCANDLESS T ; MCCANDLESS T J ; MCCANDLESS THOMAS ; MCCANDLESS THOMAS J ; SAUNDERS R ; SAUNDAAZU ROBAATO EMU ; SAUNDERS R ; SAUNDERS R M ; SAUNDERS ROBERT ; SAUNDERS ROBERT M ; SAUNDERS SHELDON L WILDE THOMA ; SHELDON L WILDE ; THOMAS J MCCANDLESS ; TJ MCCANDLESS ; TOOMASU JEI MATSUKYANDORES U ; TOOMASU JEI MATSUKIYANDORES U ; WAIRUDO SHERUDON ERU ; WAIRUDO SHIERUDON ERU ; WAIRUDO TSUERUDON ERU ; WILDE S ; WILDE S L ; WILDE S L MCCANDLESS T J SAUND ; WILDE SHELDON ; WILDE SHELDON L ; WILDE SL MCCANDLESS TJ SAUNDERS RM ; RM SAUNDERS ; ROBAATO EMU SAUNDAAZU ; ROBERT M SAUNDERS ; SHERUDON ERU WAIRUDO ; SHIERUDON ERU WAIRUDO ; SL WILDE ; SOUNDERS ROBERT M

Inventor(s): T J MCCANDLESS ; S L WILDE ; L WILDE SHELDON ; M SOUNDERS ROBERT ; WILDE S L MCCANDLESS T J SAUNDERS R M ; SHELDON L WILDE THOMAS J MCCANDLESS ROBERT M SAUNDE ; SHELDON L WILDE THOMAS J MCCANDLESS ROBERT M... ; SHELDON WILDE THOMAS MCCANDLESS ET ROBERT SAUNDERS ; R M SAUNDERS

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO

Designated states: AU BR DE FR GB IT JP NL SE

International class
(IPC 8-9): B29C33/00 B29C37/00 B29C41/20 B29C43/00 B29C43/02 B29C43/14 B29C43/18 B29C43/36 B29C43/40 B29C43/42 B29C43/50 B29C53/02 B29C55/00 B29C57/00 B29C59/02 B29C63/26 B29C65/00 B29C65/56 B29C67/00 B29C69/02 B29C70/80 B29D99/00 B65D41/02 B65D41/04 B65D41/20 B65D41/34 B65D41/38 B65D41/40 B65D49/12 B65D53/00 B65D53/04 B65D53/06 B65D55/02 B65D55/08 G09F3/03 (Advanced/Invention); B29C33/00 B29C37/00 B29C43/00 B29C43/02 B29C43/18 B29C53/02 B29C55/00 B29C59/02 B29C63/26 B29C65/00 B29C65/56 B29C67/00 B29L31/56 B65D41/04 B65D53/00 G09F3/03 (Advanced/Non-invention); B29C33/00 B29C37/00 B29C43/00 B29C43/02 B29C43/14 B29C43/18 B29C43/32 B29C43/36 B29C55/00 B29C57/00 B29C59/02 B29C63/26 B29C65/00 B29C65/56 B29C67/00 B29C69/02 B29C70/00 B29D99/00 B65D41/02 B65D41/04 B65D41/32 B65D41/34 B65D49/00 B65D53/00 B65D55/02 G09F3/03 (Core/Invention); B29C43/18 B29C53/00 (Core/Non-invention)

International class
(IPC 1-7): B29C13/02 B29C27/00 B29C3/00 B29C41/20 B29C43/00 B29C43/10 B29C63/26 B29C67/00 B29D1/00 B29D3/00 B29D31/00 B29D7/16 B29D9/08 B29L31/56 B65D39/00 B65D41/02 B65D41/04 B65D41/20 B65D41/32 B65D41/34 B65D41/38 B65D41/40 B65D49/12 B65D53/00 B65D53/04 B65D53/06 B65D55/02 B65D55/08 B65D55/12 B67B3/02 G09F3/03

CPC: B65D41/3423 Y10S425/809 Y10S425/058 B29C43/361 B65D41/04 B65D41/34 B29C43/146 B26F2210/04 B29C37/0014 B29C37/0017 B29C43/18 B29C43/184 B29C53/02 B29C57/00 B29C69/02 B29C2791/001 B29C2793/009 B29L2031/56 B65D41/0407 B65D41/3428 B65D2101/0046 B65D2101/0053 B65D41/045 B29C37/0082 B29C43/021 B29C43/42 B29C59/022 B29C67/0003 B29C67/0044 B29C70/80 B29L2001/00 B29L2031/565 B65D41/0435 B65D41/3466

European class: B29C37/00B3 B29C37/00B4 B29C37/00K2 B29C43/02B B29C43/14C B29C43/36C B29C43/42 B29C57/00 B29C59/02C B29C67/00B B29C67/00K B29C69/02 B29C70/80 B65D41/04 B65D41/04B B65D41/04D B65D41/04D2 B65D41/34 B65D41/34C B65D41/34C1 B65D41/34E1 L26F210/04 L29C37/00K2 L29C43/18 L29C43/18B2 L29C53/02 L29C66/71 L29C791/00B L29C793/00J L29L1/00 L29L31/56 L29L31/56B L65D101/00A3D L65D101/00A3E

US class: 215/246 215/252 215/329 215/343 215/350 248/163.2 249/59 264/154 264/230 264/250 264/266 264/268 264/274 264/291 425/110 425/112 425/127 425/291 425/809 425/DIG.58

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US2004251228, US2004226957, US2004169307, US2004155007, US2004145087, US2004130054, US2004129741, US2004129667, US2004108611, US2004036195, US2004000532, US2003235027, US2003222046, US2003205549, US2003127419, US2003121880, US2003116879, US2003102601, US2003044548, TWI302139, RU2482039, KR101478370, JP7017181, JP63022356, JP62159350, JP62159349, JP61104958, JP61104832, JP6033100, JP60240655, JP60134857, JP60044330, JP59221247, JP59142948, JP59045111, JP59015059, JP58051116, JP5694387, JP5693847, JP5086844, JP4091849, JP4042253, JP2526433, JP2243327, JP2105848, JP2013521150, JP2011184096, JP2010501426, JP2006256000, JP2001315829, JP1501306, ITMO20080271, GB2330356, GB2330356, GB2235186, GB2191178, GB2190902, GB2190902, GB2149765, GB2146007, GB2123393, GB2120220, FR2646805, FR2600629, FR2554791, EP3028955, EP2939814, EP2810992, EP1782915, EP1781548, EP1239997, EP1181213, EP1055609, EP1048585, EP1048584, EP1008530, EP1007335, EP0920967, EP0770559, EP0730520, EP0688723, EP0592506, EP0521389, EP0421620, EP0352962, EP0331485, EP0328600, EP0328600, EP0308995, EP0261037, EP0254673, EP0239873, EP0233414, EP0233414, EP0231905, EP0224649, EP0219265, EP0219265, EP0158477, EP0158477, EP0154502, EP0149496, EP0099171, EP0094026, EP0075582, EP0075582, EP0073334, DE4214151, DE29600635, DE19536030, CH688036, AU724341, AU611537, AU570408, AU2007287086, AU2007287086,

Abstract:

Source: US4343754A A process for making a composite closure having a plastic cap with specially configured pedestals that are interconnected to a plastic liner. In one embodiment, the pedestals are each formed with an overhang, such as a mushroom-shaped overhang, to provide a mechanical interlock with the liner. In other embodiments, the pedestals are each formed with a fusible heat concentration zone that is fused to the liner as the liner is compression molded and heated in the cap. In one embodiment, each of the fusible pedestals are formed with a cylindrical configuration. In another embodiment, each of the fusible pedestals are formed in the shape of a pyramid.

0) US2005178094A – VACCUM PUMP FOR BOTTLES

2) Family number: 30051622 (US2005178094A)

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Title: VACCUM PUMP FOR BOTTLES

Priority: ES20020001144 20020520 WO2003ES00225 20030520

Family:	Publication number	Publication date	Application number	Application date
	AT381487 E	20080115	AT20030725216T	20030520
	AU2003227771 AA	20031202	AU20030227771	20030520
	CA2486637 AA	20041119	CA20032486637	20030520
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	EP1514802 B1	20071219	EP20030725216	20030520
	ES2223223 AA	20050216	ES20020001144	20020520
	ES2295579 T3	20080416	ES20030725216T	20030520
	US2005178094 AA	20050818	US20040515153	20041119
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	WO03097464 A1	20031127	WO2003ES00225	20030520
	ZA200409201 A	20050530	ZA20040009201	20041117
	ZA200409201 A	20050727	ZA20040009201	20041117

Probable Assignee: PHILIPS ELECTRONICS KONINKLL NV

Assignee(s):^(std): BONICH MARTA BRUCART ; BRUCART BONICH MARTA ; MARTA BRUCART
BONICH

Assignee(s): PHILIPS ELECTRONICS KONINKLL NV

Inventor(s):^(std): BONICH MARTA BRUCART ; BRUCART BONICH MARTA ; MARTA BRUCART
BONICH

Agent(s): FETHERSTONHAUGH AND CO; STRIKER STRIKER AND STENBY; MICHAEL J

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO
CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW
HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG
MK ML MN MR MW MX MZ NE NI 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

International class [B65B1/04](#) [B65B31/04](#) [B65D81/20](#) (Advanced/Invention);
(IPC 8-9): [B65B1/04](#) [B65B31/04](#) [B65D81/20](#) (Core/Invention);
[B65B](#) [B65D](#) (Subclass/Invention)

International class [B65B](#) [B65B31/00](#) [B65B31/04](#) [B65D](#) [B65D81/20](#)
(IPC 1-7):

CPC: [B65B31/047](#) [B65D81/2038](#)

European class: [B65B31/04E1](#) [B65D81/20B3](#)

US class: [141/65](#) [141/98](#) [53/320](#) [53/510](#)

[Classification Explorer](#)

Cited documents: US5653352 A, US5540557 A, US5535900 A, US5469979 A, US5031785 A, US4889250
A, US4763803 A, ES2007549 B3, ES2007549,

Forward Citations: WO08155494, USD735525, US9370791, US8967413, US8646245, US7743796,
US7726356, US2012137631, US2010132831, US2008142470, JP6090243,
JP2016003625, FR2917650, EP3184461, CN104595206, CN102417071,

Abstract:

Source: US2005178094A The invention relates to a hemi-cannula for tracheotomy patients, comprising a main

tubular body (1.1) which is made from a suitable flexible material and which comprises peripheral end fixing flanges (1.2 and 1.3). One of said flanges (1.2), which is intended to be disposed inside the trachea next to the inner face of same, takes the form of a wing comprising a cylindrical surface with an oblique axis in relation to an axis perpendicular to the main axis of the main body (1.1). The other flange (1.3) takes the shape of a truncated cone comprising a larger outer base. According to the invention, a conduit forming the main tubular body passes through the centre of both of said flanges. The invention is suitable for producing tracheotomy cannulas.

3) Family number: 1295955 (US3964643A)

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Title: UNPRESSURIZED CONTAINER FOR HOLDING A PLURALITY OF PRODUCTS SEPARATELY AND DISPENSING THEM SIMULTANEOUSLY**Priority:** FR19730046537 19731227 FR19740039496 19741203

Family:	Publication number	Publication date	Application number	Application date
	DE2461617 A1	19750710	DE19742461617	19741227
	DE2461617 C2	19900215	DE19742461617	19741227
	FR2269278 A5	19751121	FR19730046537	19731227
	FR2293375 A2	19760702	FR19740039496	19741203
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	GB1469009 A	19770330	GB19740055835	19741224
	US3964643 A	19760622	US19740537106	19741223

Probable Assignee: OREAL**Assignee(s):**^(std): OREAL**Assignee(s):** OREAL FR ; L OREAL ; L OREAL PARIS FR ; LOREAL**Inventor(s):**^(std): MORANE BRUNO R ; GUERET JEAN LOUIS H ; MORANE BRUNO ; GUERET JEAN LOUIS**Inventor(s):** GUERET JEAN LOUIS PARIS FR ; BRUNO MORANE ET JEAN LOUIS GUERET**International class**
(IPC 8-9): [B65D81/32](#) (Advanced/Invention);
[B65D81/32](#) (Core/Invention)**International class**
(IPC 1-7): [B65D25/08](#) [B65D35/22](#) [B65D37/00](#) [B65D81/32](#)**CPC:** [Y10S215/08](#) [B65D81/3222](#)**European class:** [B65D81/32C1](#)**US class:** [206/219](#) [215/DIG.8](#) [222/129](#) [222/145](#) [222/189.06](#) [222/541.6](#)[Classification Explorer](#)**Cited documents:** US3813534 A, US3764796 A, US3584211 A, US3576987 A, US3068154 A, US3047195 A, US2808184 A, US2783091 A, US2619448 A, US1332985 A,**Forward Citations:** WO09079543, WO09079543, WO08092068, WO08092068, WO05096874, WO02062173, WO0151360, USD604050, USD419776, US9694945, US8931665, US8910830, US8790366, US8631941, US8585308, US8434643, US8403178, US8262608, US8100294, US7976234, US7637679, US7581899, US7243660, US7128241, US6705790, US6676322, US6655388, US6637967, US6616019, US6595940, US6592281, US6478191, US6455064, US6428234, US6428233, US6425704, US6376019, US6372816, US6340097, US6322852, US6269979, US6099807, US5568988, US5554197, US5335827, US5332124, US5289949, US5020694, US4894269, US4893730, US4850729, US4527687, US4390333, US4340097, US4265280, US4227611, US4093067, US2015136622, US2011284583, US2011248045, US2009311028, US2009255953, US2009196675, US2009152296, US2009152295, US2009152267, US2009125057, US2008029556, US2007292195, US2007253761, US2006113318, US2005255425, US2005211261, US2005196431, US2005186135, US2005111900, US2004234450, US2004221864, US2003063944, US2002018689, JP2007524493, FR2475010, FR2473108, FR2411769, EP2955130, EP1250263, EP0170526, DE3834566, DE3142321, DE102006034272,**Abstract:**

Source: US3964643A Unpressurized container for holding a plurality of products separately and dispensing them simultaneously comprises a deformable outer jacket, a rigid frangible tube so positioned within the outer jacket that it may be ruptured by flexing the outer jacket.

0) RU104156U – SAFETY COVER BOTTLE (MACHINE TRANSLATION)

4) Family number: 49784302 (RU104156U)

© PatBase

Title: Safety cover BOTTLE (Machine translation)

Priority: RU20100125684U 20100623

Family:

Publication number	Publication date	Application number	Application date
RU104156 U1	20110510	RU20100125684U	20100623

International class B65D49/02 (Advanced/Invention)
(IPC 8-9).

[Classification Explorer](#)

Abstract:

Source: RU104156U

Machine translation: 1. Protection cap for a bottle comprising a body having a prisoner in a metal cap and a mobile node is located inside a metal sleeve fixed node having means for interaction with the elements of the bottle, a means of transporting liquids, including spreader outer sleeve having an internal cavity, filling the hole, the filler element and performed with male interacting with a female cap, with the outer sleeve has a hollow box, transient cavity, closing and sealing means, including the cover, which has made cup-shape, the sealing ring element, threaded connection between the outer sleeve and cover, installation tools and retention of housing on the neck, includes the performance of the outer sleeve annular cavity locks to interact with mating elements of the bottle made in the form of inward formed in the outer sleeve windows sectoral projections, internal axial slots with pointed tips, tools display opening, including the inverted one to the other parts of the metal cap and a metal sleeve having at the junction of the weakened section of the ring facing the metal sleeve of the recessed ring belt, made in the bottom of the cover, and has a harbor with the response element of the metal sleeve in the form of a ratchet engagement section, with harboring element is an annular shoulder formed "podkatkoy" top of the metal sleeve, and placed with the possibility of singing

- **search:** SS5 TAC=(bottle or (beverage container)) and IC=B65D and FT=((((internal* W3 (embossment or stopper or vented* or surfaces or projections)) W5 (axial* or long*)) and neck) and PD<20140606 (Results 11)
- **List:** SS5 1-50 (TAC=(bottle or (beverage container)) and IC=B65D and FT=((((internal* W3 (embossment or stopper or vented* or surfaces or projections)) W5 (axial* or long*)) and neck) and PD<20140606) (Results 11)

0) US2001003996A – TRANSFER SET FOR VIALS AND MEDICAL CONTAINERS

1) Family number: 28219762 (US2001003996A)

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Title: TRANSFER SET FOR VIALS AND MEDICAL CONTAINERS

Priority: EP20000121656 20001004 EP20030816475 20030124 JP20000544294 19990225
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Family:

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Agent(s): FB RICE; FB RICE PTY LTD; VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELTEN U RECHTSANWAELTEN MBB; VON KREISLER ALEK; VON KREISLER SELTING WERNER; WEBER THOMAS; TANI AND ABE PC; FORTUNATO DAVID M; DAVID M; HOWARD AND HOWARD ATTORNEYS PC

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International class
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A61J1/05 A61J1/06 A61J1/10 A61J1/14 A61J3/00 B65D51/18 (Advanced/Non-invention) ;
A61J1/00 A61J1/05 A61J1/10 A61J1/14 B65B7/28 B65D39/00 B65D41/02 B65D47/00
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US class:

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Abstract:

Source: US2001003996A A transfer set assembly for transferring fluids between a first container, such as a conventional medical vial, having a sealed open end and a second container such as a conventional IV infusion bag. The transfer set includes a collar having a proximate tubular end portion for securement to the container, a needle cannula and holder assembly, which is telescopically received in a distal tubular portion of the collar, and a closure including a tubular body portion having an open proximate end which is telescopically received over the needle cannula and holder assembly and the distal tubular portion of the collar, a closed distal end portion and an inner tubular portion which is integral with the closed distal end. The inner tubular portion includes a free end having spiral camming surfaces which mate with spiral camping surfaces on the inside surface of the tubular distal portion of the needle cannula holder. The tubular body portion of the closure includes lateral slots which receive projections on the collar and contiguous camming surface which extends toward the proximate open end of the closure. Rotation of the closure relative to the collar first drives the mating spiral camming surfaces of the closure and holder together, thereby driving the needle cannula and holder assembly axially to pierce the seal of the container. Continued rotation of the closure drives the projections on the collar against the contiguous angled camming surface, driving the closure from the collar and providing access to the needle cannula for transfer of fluids to a second container, such as an IV infusion bag.

2) Family number: 30141675 (US4343754A)

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Title: PROCESS AND APPARATUS FOR MOLDING LINERS IN CONTAINER CLOSURES

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<u>ZA8205312 A</u>	19830727	ZA19820005312	19820723

Probable Assignee: HC IND

Assignee(s):^(std): HC IND

Assignee(s): H C PLASTIC INC ; HC IND INC ; H C PLASTIC INC A DE CORP ; H C INDUSTRIES INC
CRAWFORDSVILLE IND US ; WILDE SHELDON L ; MCCANDLESS THOMAS J ;
SAUNDERS ROBERT M ; EICHI SHII IND INC ; ETSUCHI SHII IND INC ; H C IND ; H C
IND INC ; H C IND INC A CORP INDIANA ; H C IND INC A CORP OF IN ; H C IND INC A

CORP OF IND ; H C IND INC AN CORP ; H C INDUSTRIES INC

Inventor(s):^(std): MACCANDLESS T ; MATSUKANDORES U TOOMASU JEI ; MATSUKANDORES U TOOMASU JEI ; MCCANDLESS T ; MCCANDLESS T J ; MCCANDLESS THOMAS ; MCCANDLESS THOMAS J ; SAUNDERS R ; SAUNDAAZU ROBAATO EMU ; SAUNDERS R ; SAUNDERS R M ; SAUNDERS ROBERT ; SAUNDERS ROBERT M ; SAUNDERS SHELDON L WILDE THOMA ; SHELDON L WILDE ; THOMAS J MCCANDLESS ; TJ MCCANDLESS ; TOOMASU JEI MATSUKYANDORES U ; TOOMASU JEI MATSUKIYANDORES U ; WAIRUDO SHERUDON ERU ; WAIRUDO SHIERUDON ERU ; WAIRUDO TSUERUDON ERU ; WILDE S ; WILDE S L ; WILDE S L MCCANDLESS T J SAUND ; WILDE SHELDON ; WILDE SHELDON L ; WILDE SL MCCANDLESS TJ SAUNDERS RM ; RM SAUNDERS ; ROBAATO EMU SAUNDAAZU ; ROBERT M SAUNDERS ; SHERUDON ERU WAIRUDO ; SHIERUDON ERU WAIRUDO ; SL WILDE ; SOUNDERS ROBERT M

Inventor(s): T J MCCANDLESS ; S L WILDE ; L WILDE SHELDON ; M SOUNDERS ROBERT ; WILDE S L MCCANDLESS T J SAUNDERS R M ; SHELDON L WILDE THOMAS J MCCANDLESS ROBERT M SAUNDE ; SHELDON L WILDE THOMAS J MCCANDLESS ROBERT M... ; SHELDON WILDE THOMAS MCCANDLESS ET ROBERT SAUNDERS ; R M SAUNDERS

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FETHERSTONHAUGH AND CO

Designated states: AU BR DE FR GB IT JP NL SE

International class
(IPC 8-9): B29C33/00 B29C37/00 B29C41/20 B29C43/00 B29C43/02 B29C43/14 B29C43/18 B29C43/36 B29C43/40 B29C43/42 B29C43/50 B29C53/02 B29C55/00 B29C57/00 B29C59/02 B29C63/26 B29C65/00 B29C65/56 B29C67/00 B29C69/02 B29C70/80 B29D99/00 B65D41/02 B65D41/04 B65D41/20 B65D41/34 B65D41/38 B65D41/40 B65D49/12 B65D53/00 B65D53/04 B65D53/06 B65D55/02 B65D55/08 G09F3/03 (Advanced/Invention); B29C33/00 B29C37/00 B29C43/00 B29C43/02 B29C43/18 B29C53/02 B29C55/00 B29C59/02 B29C63/26 B29C65/00 B29C65/56 B29C67/00 B29L31/56 B65D41/04 B65D53/00 G09F3/03 (Advanced/Non-invention); B29C33/00 B29C37/00 B29C43/00 B29C43/02 B29C43/14 B29C43/18 B29C43/32 B29C43/36 B29C55/00 B29C57/00 B29C59/02 B29C63/26 B29C65/00 B29C65/56 B29C67/00 B29C69/02 B29C70/00 B29D99/00 B65D41/02 B65D41/04 B65D41/32 B65D41/34 B65D49/00 B65D53/00 B65D55/02 G09F3/03 (Core/Invention); B29C43/18 B29C53/00 (Core/Non-invention)

International class
(IPC 1-7): B29C13/02 B29C27/00 B29C3/00 B29C41/20 B29C43/00 B29C43/10 B29C63/26 B29C67/00 B29D1/00 B29D3/00 B29D31/00 B29D7/16 B29D9/08 B29L31/56 B65D39/00 B65D41/02 B65D41/04 B65D41/20 B65D41/32 B65D41/34 B65D41/38 B65D41/40 B65D49/12 B65D53/00 B65D53/04 B65D53/06 B65D55/02 B65D55/08 B65D55/12 B67B3/02 G09F3/03

CPC: B65D41/3423 Y10S425/809 Y10S425/058 B29C43/361 B65D41/04 B65D41/34 B29C43/146 B26F2210/04 B29C37/0014 B29C37/0017 B29C43/18 B29C43/184 B29C53/02 B29C57/00 B29C69/02 B29C2791/001 B29C2793/009 B29L2031/56 B65D41/0407 B65D41/3428 B65D2101/0046 B65D2101/0053 B65D41/045 B29C37/0082 B29C43/021 B29C43/42 B29C59/022 B29C67/0003 B29C67/0044 B29C70/80 B29L2001/00 B29L2031/565 B65D41/0435 B65D41/3466

European class: B29C37/00B3 B29C37/00B4 B29C37/00K2 B29C43/02B B29C43/14C B29C43/36C B29C43/42 B29C57/00 B29C59/02C B29C67/00B B29C67/00K B29C69/02 B29C70/80 B65D41/04 B65D41/04B B65D41/04D B65D41/04D2 B65D41/34 B65D41/34C B65D41/34C1 B65D41/34E1 L26F210/04 L29C37/00K2 L29C43/18 L29C43/18B2 L29C53/02 L29C66/71 L29C791/00B L29C793/00J L29L1/00 L29L31/56 L29L31/56B L65D101/00A3D L65D101/00A3E

US class: 215/246 215/252 215/329 215/343 215/350 248/163.2 249/59 264/154 264/230 264/250 264/266 264/268 264/274 264/291 425/110 425/112 425/127 425/291 425/809 425/DIG.58

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Abstract:

Source: US4343754A A process for making a composite closure having a plastic cap with specially configured pedestals that are interconnected to a plastic liner. In one embodiment, the pedestals are each formed with an overhang, such as a mushroom-shaped overhang, to provide a mechanical interlock with the liner. In other embodiments, the pedestals are each formed with a fusible heat concentration zone that is fused to the liner as the liner is compression molded and heated in the cap. In one embodiment, each of the fusible pedestals are formed with a cylindrical configuration. In another embodiment, each of the fusible pedestals are formed in the shape of a pyramid.

3) Family number: 30051622 (US2005178094A)

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Title: VACCUM PUMP FOR BOTTLES**Priority:** ES20020001144 20020520 WO2003ES00225 20030520

Family:	Publication number	Publication date	Application number	Application date
	AT381487 E	20080115	AT20030725216T	20030520
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	ZA200409201 A	20050530	ZA20040009201	20041117
	ZA200409201 A	20050727	ZA20040009201	20041117

Probable Assignee: PHILIPS ELECTRONICS KONINKLL NV**Assignee(s):^(std):** BONICH MARTA BRUCART ; BRUCART BONICH MARTA ; MARTA BRUCART
BONICH**Assignee(s):** PHILIPS ELECTRONICS KONINKLL NV**Inventor(s):^(std):** BONICH MARTA BRUCART ; BRUCART BONICH MARTA ; MARTA BRUCART
BONICH**Agent(s):** FETHERSTONHAUGH AND CO; STRIKER STRIKER AND STENBY; MICHAEL J**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO
CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW
HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG
MK ML MN MR MW MX MZ NE NI 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**International class**
(IPC 8-9): [B65B1/04](#) [B65B31/04](#) [B65D81/20](#) (Advanced/Invention);
[B65B1/04](#) [B65B31/04](#) [B65D81/20](#) (Core/Invention);
[B65B](#) [B65D](#) (Subclass/Invention)**International class**
(IPC 1-7): [B65B](#) [B65B31/00](#) [B65B31/04](#) [B65D](#) [B65D81/20](#)**CPC:** [B65B31/047](#) [B65D81/2038](#)**European class:** [B65B31/04E1](#) [B65D81/20B3](#)**US class:** [141/65](#) [141/98](#) [53/320](#) [53/510](#)[Classification Explorer](#)**Cited documents:** US5653352 A, US5540557 A, US5535900 A, US5469979 A, US5031785 A, US4889250 A, US4763803 A, ES2007549 B3, ES2007549,**Forward Citations:** WO08155494, USD735525, US9370791, US8967413, US8646245, US7743796,
US7726356, US2012137631, US2010132831, US2008142470, JP6090243,
JP2016003625, FR2917650, EP3184461, CN104595206, CN102417071,**Abstract:**

Source: US2005178094A The invention relates to a hemi-cannula for tracheotomy patients, comprising a main

tubular body (1.1) which is made from a suitable flexible material and which comprises peripheral end fixing flanges (1.2 and 1.3). One of said flanges (1.2), which is intended to be disposed inside the trachea next to the inner face of same, takes the form of a wing comprising a cylindrical surface with an oblique axis in relation to an axis perpendicular to the main axis of the main body (1.1). The other flange (1.3) takes the shape of a truncated cone comprising a larger outer base. According to the invention, a conduit forming the main tubular body passes through the centre of both of said flanges. The invention is suitable for producing tracheotomy cannulas.

0) US5676269A – TAMPER-EVIDENT CLOSURE WITH CAPTIVE BAND

4) Family number: 15221983 (US5676269A)

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Title: Tamper-evident closure with captive band

Priority: US19950408078 19950322 US19960665063 19960515 WO1996US03927 19960320

Family:

Publication number	Publication date	Application number	Application date
AR001409 AA	19971022	AR19960335883	19960322
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<u>ZA9602254 A</u>	19960926	ZA19960002254	19960320	
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Probable Assignee: BERRY PLASTICS CORP

Assignee(s):^(std): CLOSURE AND PACKAGING SERVICES ; CLOSURE AND PACKAGING SERVICES LTD ; CLOSURES AND PACKAGING SERVICE ; KLOZHURES EHND PEHKEHDZHING SE ; CLOSURES AND PACKAGING SERV LTD ; KLOZHURES EHND PEHKEHDZHING SERVISIS LTD ; CLOSURES AND PACKAGING SERVICES LTD ; CLOSURES AND PACKAGING SERVICES SUBSTITUT LTD ; PRECISION VALVE CORP

Assignee(s): TANSEY M CHARLES ; TANSEY CHARLES M ; REXAM CLOSURE SYSTEMS LLC ; CLOSURES AND PACKAGING SERVICES LTD ST PETER PORT GUERNSEY ; CLOSURES AND PACKAGING SERVICES LTD ST PETER PORT GUERNSEY CSATORNA SZIGETEK ; CLOSURES AND PACKAGING SERVICES SUBSTITUTED UNDER SECTION 24 1 FROM PRECISION VALVE CORP LTD ; CLOSURES AND PACKAGING SERVICES A CORP OF GUERNSEY LTD ; CLOSURES AND PACKAGING SERVICES LTD ST PETER PORT ; 3I GROUP PLC ; BERRY PLASTICS CORP ; BLAKE R ROBERT ; BLAKE ROBERT R

Inventor(s):^(std): TANSEY CHALRES M ; TANSEY M ; TANSEY M CHARLES ; TANSEY CHARLES MARTIN ; TANSEY CHARLES M ; ROBERT R BLAKE ; ROBERT R BLEJK ; ROBERT R BLEJK ; ROBERT R BLAKE ; CHARLESM TANSEY ; CHARLES M TANSEY ; CHARL Z MTEHNSI ; CHARL Z M TEHNSI ; CHALRES M TANSEY ; BLAKE ROBERT R ; BLAKE R ; BLAKE R ROBERT

Inventor(s): CHARL'Z M.TEHNSI

Agent(s): FB RICE; FB RICE PTY LTD; KIRBY EADES GALE BAKER; XIMENA BONILLA PEREIRA

Designated states: AT AU BE BG BR CA CH DE DK ES FI FR GB GR HU IE IT JP KP KR LI LU MC MX NL NO NZ PL PT RO RU SE SG UA

International class
(IPC 8-9): B65B51/00 B65D41/00 B65D41/04 B65D41/34 B65D41/38 B65D51/16 B65D55/08 G01B11/02 G03F7/26 H01L21/00 (Advanced/Invention);
B65D41/00 B65D41/04 B65D41/34 B65D51/16 G01B11/02 G03F7/26 H01L21/00 (Core/Invention)

International class
(IPC 1-7): B65B B65B51/00 B65D41/00 B65D41/34 B65D41/38 B65D55/08 B67B E05F

CPC: B65D41/0428 B65D41/3447 B65D51/1688 B65D2101/0046

European class: B65D41/04B2 B65D41/34D1 B65D51/16E3 L65D101/00A3D

US class: 215/252

[Classification Explorer](#)

Cited documents: WO9402371 A1, US5248050 A, US5246125 A, US5215204 A, US5080246 A, US4805792 A, US4557393 A, US4530436 A, US4206851 A, US3904062 A, EP0552958 B1, EP0552958, DE4206123 A1, DE3230779 A1,

Forward Citations: WO9903746, WO12021084, WO0064774, USD634200, USD634199, USD633386, US9617045, US8844770, US8672158, US8668097, US8584876, US8231020, US7975864, US7735666, US7645414, US7575123, US7344039, US7235207, US7228979, US6991123, US6874648, US6793082, US6772894, US6673298, US6659297, US6640988, US6626310, US6581793, US6527132, US6491175, US6371317, US5979682, US2010213159, US2009159555, US2009008392, US2008197135, US2007181525, US2007108154, US2006163189, US2005189312, US2004124169, US2004069738, US2003057175, JP2006213360, ES2292317, EP2383197, EP1263657, EP1263657, DE10297200, DE102009044896, CN103619719, CN103619719, AU731374,

Abstract:

Source: US5676269A A container closure 10 for screw top containers such as beverage container, the closure 10 having a generally cylindrical tamper-evident band 11 joined by a plurality of frangible bridges 13b, 13c and at least one extended non-frangible bridge 13a to the free edge of a skirt 16 of the closure 10. The band 11 has a segmented internal rib 18 which engages an external retaining flange 30 of the container 29 when the closure is applied to the container. An L-shaped slot 17 extends through the side wall of the tamper-evident band 11, the horizontal leg 61 of which terminates directly adjacent to or under the extended non-frangible bridge 13a. A weakened frangible region 63 of the band extends from the terminating end 62 of the horizontal leg 61 axially downward to the bottom of the band 11. On removal of the closure 10 from the container 29, the frangible bridges 13b, 13c and frangible region 63 rupture and the band 11 remains captive at the extended bridge 13a to the skirt. Longitudinal internal projections 25 and 28 circle the band 11, except in the region of the L-shaped slot 17 to allow stretching of the band adjacent the slot. Thickenings 26 circle the band except in the region of the slot 17

and except at approximate quarter-turns 71, 72 around the band from the slot, allowing stretching of the band where absent for application to the container.

5) Family number: 1295955 (US3964643A)

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Title: UNPRESSURIZED CONTAINER FOR HOLDING A PLURALITY OF PRODUCTS SEPARATELY AND DISPENSING THEM SIMULTANEOUSLY**Priority:** FR19730046537 19731227 FR19740039496 19741203

Family:	Publication number	Publication date	Application number	Application date
	DE2461617 A1	19750710	DE19742461617	19741227
	DE2461617 C2	19900215	DE19742461617	19741227
	FR2269278 A5	19751121	FR19730046537	19731227
	FR2293375 A2	19760702	FR19740039496	19741203
	FR2293375 B2	19810529	FR19740039496	19741203
	GB1469009 A	19770330	GB19740055835	19741224
	US3964643 A	19760622	US19740537106	19741223

Probable Assignee: OREAL**Assignee(s):**^(std) OREAL**Assignee(s):** OREAL FR ; L OREAL ; L OREAL PARIS FR ; LOREAL**Inventor(s):**^(std) MORANE BRUNO R ; GUERET JEAN LOUIS H ; MORANE BRUNO ; GUERET JEAN LOUIS**Inventor(s):** GUERET JEAN LOUIS PARIS FR ; BRUNO MORANE ET JEAN LOUIS GUERET**International class**
(IPC 8-9): [B65D81/32](#) (Advanced/Invention);
[B65D81/32](#) (Core/Invention)**International class**
(IPC 1-7): [B65D25/08](#) [B65D35/22](#) [B65D37/00](#) [B65D81/32](#)**CPC:** [Y10S215/08](#) [B65D81/3222](#)**European class:** [B65D81/32C1](#)**US class:** [206/219](#) [215/DIG.8](#) [222/129](#) [222/145](#) [222/189.06](#) [222/541.6](#)[Classification Explorer](#)**Cited documents:** US3813534 A, US3764796 A, US3584211 A, US3576987 A, US3068154 A, US3047195 A, US2808184 A, US2783091 A, US2619448 A, US1332985 A,**Forward Citations:** WO09079543, WO09079543, WO08092068, WO08092068, WO05096874, WO02062173, WO0151360, USD604050, USD419776, US9694945, US8931665, US8910830, US8790366, US8631941, US8585308, US8434643, US8403178, US8262608, US8100294, US7976234, US7637679, US7581899, US7243660, US7128241, US6705790, US6676322, US6655388, US6637967, US6616019, US6595940, US6592281, US6478191, US6455064, US6428234, US6428233, US6425704, US6376019, US6372816, US6340097, US6322852, US6269979, US6099807, US5568988, US5554197, US5335827, US5332124, US5289949, US5020694, US4894269, US4893730, US4850729, US4527687, US4390333, US4340097, US4265280, US4227611, US4093067, US2015136622, US2011284583, US2011248045, US2009311028, US2009255953, US2009196675, US2009152296, US2009152295, US2009152267, US2009125057, US2008029556, US2007292195, US2007253761, US2006113318, US2005255425, US2005211261, US2005196431, US2005186135, US2005111900, US2004234450, US2004221864, US2003063944, US2002018689, JP2007524493, FR2475010, FR2473108, FR2411769, EP2955130, EP1250263, EP0170526, DE3834566, DE3142321, DE102006034272,**Abstract:**

Source: US3964643A Unpressurized container for holding a plurality of products separately and dispensing them simultaneously comprises a deformable outer jacket, a rigid frangible tube so positioned within the outer jacket that it may be ruptured by flexing the outer jacket.

6) Family number: 44071381 (WO09145670A1)

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Title: DEVICE FOR TREATING AND PURIFYING A LIQUID PRODUCT AND THE UNITS OF SAID DEVICE**Priority:** RU20080121572 20080529 WO2009RU00256 20090522

Family:	Publication number	Publication date	Application number	Application date
	EA018124 B1	20130530	EA20100001341	20090522
	EA201001341 A1	20110429	EA20100001341	20090522
	EP2316916 A1	20110504	EP20090755119	20090522
	RU2381268 C1	20100210	RU20080121572	20080529
	WO09145670 A1	20091203	WO2009RU00256	20090522

Probable Assignee: OOO EVROSTANDART**Assignee(s):^(std):** KISTEREV VALERIY EVGENYEVICH ; LIABILITY COMPANY LTD ; OBSHESTVO S OGRANICHENNOI OTV ; OBSHESTVO S OGRANICHENNOI OTVETSTVENNOSTIYU EUROSTANDART ; OOO EVROSTANDART ; ZHERDEV PAVEL DMITRIEVICH**Assignee(s):** OBSHESTVO S OGRANICHENNOJ OTVETSTVENNOST JU EVROSTANDART**Inventor(s):^(std):** KISTEREV VALERIY EVGEN EVICH ; KISTEREV VALERIY EVGENYEVICH ; ZHERDEV PAVEL DMITRIEVICH**Inventor(s):** KISTEREV VALERIY EVGEN'EVICH**Agent(s):** SONN AND PARTNER PATENTANWALTE; LOMSKIY SERGEY MIHAYLOVICH**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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class [B01D35/02](#) [B01D35/16](#) [B65D47/34](#) [C12H1/04](#) [C12H1/07](#) [G09F23/04](#) [G09F23/06](#)
^{(IPC 8-9):} [G09F25/00](#) (Advanced/Invention);
[B01D35/00](#) [B01D35/16](#) [B65D47/34](#) [C12H1/00](#) [G09F23/00](#) [G09F25/00](#) (Core/Invention)

CPC: [C12G3/04](#) [C12G3/06](#) [C12H1/0408](#) [C12H1/0424](#) [C12H1/063](#) [G09F23/04](#) [G09F23/06](#)
[G09F25/00](#) [G09F27/00](#)**European class:** [C12G3/04](#) [C12G3/06](#) [C12H1/04B](#) [C12H1/04C4](#) [C12H1/06C](#) [G09F23/04](#) [G09F23/06](#)
[G09F25/00](#) [G09F27/00](#)[Classification Explorer](#)**Cited documents:** US6136188 A, US2004050875 AA, RU35462 U1, RU2266253 C2, RU2164888 C1, RU2131759 C1, JP9122564 A2, JP2003267465 A2, BE902997 A,**Forward Citations:** WO12141612, WO12141612,**Abstract:**

The inventions relate to the food industry. The treatment and purification of a liquid product, including vodka, are carried out by passing said product through a mixture of sorbent components enclosed between filtering materials. Each portion of the product poured from a bottle into a drinking vessel, prior to be consumed, is treated and purified by the consumer himself. The treatment is carried out by pressing product out from a container at a maximum rate through, arranged in a cartridge, a coarse filtering material, sorbents and a fine filtering material by means of the predetermined excessive air pressure which is produced in the inner cavity of the container when necessary by an air pump which is provided with an electric motor and is located outside the bottle. Mineral, flavouring and/or other additives accommodated in the cartridge at exit from the device make it possible to obtain a product different from that which is contained in the container. Moreover, the device can be provided with units producing luminous and sound effects for advertising purposes.

7) Family number: 21848710 (FR1542739A)

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Title: BOUCHON VERSEUR GARANTISSANT L'AUTHENTICITE DU PRODUIT POURING STOPPER ENSURES THE AUTHENTICITY OF THE PRODUCT (Machine translation)

Priority: FR19670120294 19670907

Family:	Publication number	Publication date	Application number	Application date
	FR1542739 A	19681018	FR19670120294	19670907

Probable Assignee: WERNER WARSAWSKY KG

Assignee(s):^(std): WERNER WARSAWSKY KG

Assignee(s): WERNER WARSAWSKY KG KUNSTOFF SPRITZGUSSWERK ; WERNER WARSAWSKY KUNSTOFF SPRITZGUSSWERK KG

International class
(IPC 8-9): B65D49/02 (Advanced/Invention);
B65D49/00 (Core/Invention)

International class
(IPC 1-7): B65D49/02

CPC: B65D49/02

European class: B65D49/02

[Classification Explorer](#)

Abstract:

Source: FR1542739A [Source: Claim 1] 1. **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. tube comporte une cage intermediaire 3 a, qui est par exemple rapportee par soudage et dont la partie superieure est formee d'une plaque horizontale presentant des trous 11 et a partir de laquelle une enveloppe laterale eomportant des passages 4 descend coniquement vers la paroi du tube-verseur. Une plaque d'etancheite ou clapet 6 a reposant sur le passage 2 comporte un trou central par lequel elle coulisse librement sur -une cheville de guidage vertical 5 reliee a sa partie superieure a la plaque horizontale de la cage intermediaire. Le mode de fonetionnement du bouchonverseur est le suivant: apres avoir enleve le capuchon non represente en le faisant tourner sur le filet du col de la bouteille, on peut verser le contenu de celle-ci. Le contenu de la bouteilk exerce une pression sur la plaque d'etancheite 6 a qui se souleve en consequence sur la cheville de guidage 5, de sorte que le liqxude-peut s'ecouler par les ouvertures 4. Lorsque le service est termine, la plaque d'etancheite 6 a retombe, le passage est obture et il est impossible de remplir la bouteille. La partie superieure de la cage intermediaire 3 a peut egalement etre conique ou hemisPhe- rique pour que le deversement soit regulier. La conformation particuliere de la cage intermediaire et notamment de ses ouvertures 4 exclut toute possibilite de soulevement de la plaque d'etancheite 6 a du passage 2 a l'aide d'un fil ou autre. li est egalement impossible de remplir la bouteille placee obliquement, car la plaque d'etancheite comporte sur sa face superieure des evidements qui se remplissent de liquide lorsqu'on essaye de remplir la bouteille par les trous 11, cette plaque etant ainsi repoussee de maniere certaine contre le passage [Source: Claim 1] 1. ** WARNING ** start of CLMS field may contain end of DESC **. tube has an intermediate cage 3, which is for example attached by welding, and whose upper part is formed of a horizontal plate having holes 11 and from which a side envelope eomportant passages 4 down conically towards the tube wall -verseur. A sealing plate or valve 6 is based on the passage 2 has a central hole through which it slides freely on -a vertical guide pin 5 connected to its upper part to the horizontal plate of the intermediate shaft. The fonetionnement mode bouchonverseur is: after removing the cap not represented by turning on the net on the neck of the bottle, you can pour the contents thereof. The content of the bouteilk puts pressure on the tightness 6 plate which raised accordingly on the guide pin 5, so that the can-lixqude to flow through the openings 4. When the service is complete, the 6 a plate of tightness falls, the passage is closes and it is impossible to fill the bottle. The upper part of the intermediate cage 3 may also be conical or hemispherical so that the spill is regular. The particular conformation of the intermediate cage and in particular openings 4 excludes any possibility of uprising of the tightness 6 plate of the passage 2 by means of a wire or another. li is also possible to fill the bottle placed obliquely because of tightness plate has on its upper side of recesses that fill with liquid when trying to fill the bottle with the holes 11, this plate thus being repulsed in some ways against the passing

8) Family number: 33549736 (WO06111992A1)

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Title: CLOSING DEVICE WITH TAP FOR LARGE BOTTLES**Priority:** IT2005MI00712 20050421**Family:**

Publication number	Publication date	Application number	Application date
<u>ITMI20050712 A1</u>	20061022	IT2005MI00712	20050421
<u>WO06111992 A1</u>	20061026	WO2005IT00278	20050516

Probable Assignee: MANGIA SANTO GIOVANNI**Assignee(s):^(std):** MANGIA SANTO GIOVANNI**Inventor(s):^(std):** MANGIA SANTO GIOVANNI

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 KP KR KZ LC LK LR LS LT LU LV 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

International class B65D41/08 B65D47/30 B65D51/16 (Advanced/Invention);
 (IPC 8-9): B65D41/04 B65D47/04 B65D51/16 (Core/Invention)

CPC: B65D41/08 B65D47/30 B65D51/1644**European class:** B65D41/08 B65D47/30 B65D51/16D2[Classification Explorer](#)**Cited documents:** US6139802, US2234084, GB717696, DE958363, DE19806481,**Forward Citations:** GB2480603,**Abstract:**

Device of plastic material for closing large bottles (10) with a tap, comprising a cylindrical head piece (18) with threading (38) on its internal wall (22) to be screwed into external threading (74, 76) on a pair of semi-cylindrical parts (70, 72) that match at their longitudinal ends (86, 88), with internal projections (78, 80) to fit between the projecting rim (14) at the top of the neck (12) of the bottle and a continuous raised portion (16) at a short distance below it, there being at the base of the head piece a tube (52) communicating with the inside of the bottle, in which is a freely sliding valve (56) of a diameter slightly smaller than that of the inside of the tube to facilitate the passage of air and therefore outflow of the liquid in the bottle.

0) GB780679A – AN IMPROVED NON-REFILLABLE CLOSURE FOR A CONTAI...

9) Family number: 20415049 (GB780679A)

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Title: An improved non-refillable closure for a container

Priority: GB19550015920 19550603

Family:	Publication number	Publication date	Application number	Application date
	<u>GB780679 A</u>	19570807	GB19550015920	19550603

Probable Assignee: JUAN BAUTISTA DELLA LIBERA SIL

Assignee(s):^(std): JUAN BAUTISTA DELLA LIBERA SIL

Assignee(s): JUAN BAUTISTA DELLA LIBERA SILICANI

International class
(IPC 8-9): B65D49/06 (Advanced/Invention);
B65D49/00 (Core/Invention)

International class
(IPC 1-7): B65D49/04

CPC: B65D49/06

European class: B65D49/06

[Classification Explorer](#)

Abstract:

Source: GB780679A 780,679. Non-refillable bottles. SILICANI J. B. D. L. June 3, 1955, No. 15920/55. Class 66. A non-refillable closure for a bottle comprises lower and upper members 7 and 8 housing a ball 10 that rests on a valve 9 to seal an opening 15 in the lower member, there being a concave head-piece 6 in the upper member 8 spaced from the ball 10 but serving as an inclined plane when the bottle is horizontal to cause the ball 10 to push against the valve 9 and maintain it in its closed position. The headpiece 6 seats into and is located centrally by a shallow recess 14 in the top of the lower body member 7, the head-piece 6 and the recess 14 being of less diameter than the interior of the upper body member 8 to form an annular space 18 through which liquid may flow when the bottle is tilted beyond the horizontal position. The head-piece 6 is held in the recess 14 by projections 22 in the upper body 8. The upper body 8 increases in diameter at the bottom by a stepped formation, thereby presenting a recess 13 into which fits a flange 24 on the top of the lower body member 7. The stepped formation serves as an anchorage for a retaining band for securing the closure on a bottle. Alternatively the upper body member 8 may have a cylindrical bottom extension serving to encompass the neck of a container and being so constructed that it secures the closure in place.

10) Family number: 3289428 (US4890754A)

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Title: Pilfer-resistant plastic closure**Priority:** US19890357716 19890526

Family:	Publication number	Publication date	Application number	Application date
	<u>US4890754 A</u>	19900102	US19890357716	19890526

Probable Assignee: ZAPATA INDUSTRIES INC**Assignee(s):^(std):** ZAPATA IND INC ; ZAPATA INDUSTRIES INC**Assignee(s):** ZAPATA IND**Inventor(s):^(std):** DORN HENRY J ; ZUMBUHL BRUNO

International class B65D41/34 (Advanced/Invention) ;
^{(IPC 8-9) :} B65D41/34 (Core/Invention)

International class B65D41/34
^{(IPC 1-7) :}

CPC: B65D41/3447**European class:** B65D41/34D1**US class:** 215/252[Classification Explorer](#)

Cited documents: US4667838 A, US4595110 A, US4579241 A, US4552328 A, US4545496 A, US4527704 A, US4526282 A, US4511054 A, US4511053 A, US4506795 A, US4503985 A, US4501373 A, US4497765 A, US4496302 A, US4432461 A, US4418828 A, US4407422 A, US4345692 A, US4155698 A, US4147268 A, US3940103 A, US3929246 A, US3555606 A, GB2022063 A1, FR2339541 A1, FR1296166 A,

Forward Citations: WO9418085, WO9418084, WO9222464, WO05092729, US9511905, US6991123, US6705479, US6527132, US6381928, US6325225, US5648037, US5107998, US2014319093, US2004069738, US2003116523, FR2744988, FR2721282, FR2706426, FR2701248, EP0688724, EP0682624, EP0650444, AU696551,

Abstract:

Source: US4890754A Plastic closures for beverage bottles and containers for motor oil, food, pharmaceuticals, industrial products and the like have a tamper-resistant band connected to the sidewall of the closure by internal bridges that are formed by notches in the thread core of molding apparatus of the type having mold parts, including a stripper ring, that move axially to release closures. Stretching, elongation, and weakening of bridges when the closure is stripped from the mold are avoided, and desired configuration of the bridges is maintained, with improved quality and uniformity and more consistent proper performance of the closure during application to and removal from a bottle. In a modification, a small number of relatively strong bridges is added to prevent drooping of the tamper-resistant band if some of the predominant bridges break inadvertently before removal of the closure from a bottle, for example.

11) Family number: 49784302 (RU104156U)

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Title: Safety cover BOTTLE (Machine translation)**Priority:** RU20100125684U 20100623

Family:	Publication number	Publication date	Application number	Application date
	RU104156 U1	20110510	RU20100125684U	20100623

International class B65D49/02 (Advanced/Invention)
(IPC 8-9).[Classification Explorer](#)**Abstract:**

Source: RU104156U

Machine translation: 1. Protection cap for a bottle comprising a body having a prisoner in a metal cap and a mobile node is located inside a metal sleeve fixed node having means for interaction with the elements of the bottle, a means of transporting liquids, including spreader outer sleeve having an internal cavity, filling the hole, the filler element and performed with male interacting with a female cap, with the outer sleeve has a hollow box, transient cavity, closing and sealing means, including the cover, which has made cup-shape, the sealing ring element, threaded connection between the outer sleeve and cover, installation tools and retention of housing on the neck, includes the performance of the outer sleeve annular cavity locks to interact with mating elements of the bottle made in the form of inward formed in the outer sleeve windows sectoral projections, internal axial slots with pointed tips, tools display opening, including the inverted one to the other parts of the metal cap and a metal sleeve having at the junction of the weakened section of the ring facing the metal sleeve of the recessed ring belt, made in the bottom of the cover, and has a harbor with the response element of the metal sleeve in the form of a ratchet engagement section, with harboring element is an annular shoulder formed "podkatkoy" top of the metal sleeve, and placed with the possibility of singing

- **search:** SS6 TAC=(bottle or (beverage container)) and FT=((((squeeze* or juic*) W3 fruit*) and neck) and IC=B65D and PD<20140606 (Results 489)
- **List:** SS6 1-50 (TAC=(bottle or (beverage container)) and FT=((((squeeze* or juic*) W3 fruit*) and neck) and IC=B65D and PD<20140606) (Results 489)

1) Family number: 32365737 (US2006065992A)

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Title: MONO AND MULTI-LAYER ARTICLES AND COMPRESSION METHODS OF MAKING THE SAME

Priority: JP20070508616 20050418 JP20070508622 20050418 US20040563021 20040416
 US20050108342 20050418 US20040621511P 20041022 US20040620160P 20041018
 US20040586399P 20040707 US20040575231P 20040528 US20040563021P 20040416
 US20050108345 20050418 WO2005US13150 20050418 WO2005US13078 20050418
 US20050108607 20050418 US20090559393 20090914 US20100861757 20100823
 US20110299907 20111118 US20050643008P 20050111 US20050586399P 20050707

Family:

Publication number	Publication date	Application number	Application date
AT424288 E	20090315	AT20050740108T	20050418
AU2005235596 AA	20051103	AU20050235596	20050418
AU2005235601 AA	20051103	AU20050235601	20050418
BRPI0509773 A	20071023	BR2005PI09773	20050418
BRPI0509843 A	20071009	BR2005PI09843	20050418
CA2562073 AA	20061004	CA20052562073	20050418
CA2562073 C	20140708	CA20052562073	20050418
CA2562074 AA	20061004	CA20052562074	20050418
CA2562074 C	20141216	CA20052562074	20050418
CN1984763 A	20070620	CN200580019212	20050418
CN1997502 A	20070711	CN200580019175	20050418
DE602005013076 D1	20090416	DE200560013076T	20050418
EP1737642 A2	20070103	EP20050736269	20050418
EP1742785 A2	20070117	EP20050740108	20050418
EP1742785 B1	20090304	EP20050740108	20050418
ES2321421 T3	20090605	ES20050740108T	20050418
IN06491DN2006 A	20070831	IN2006DN06491	20061102
IN06785DN2006 A	20070831	IN2006DN06785	20061115
IN281613 B	20170324	IN2006DN06491	20061102
JP2007532362 T2	20071115	JP20070508616T	20050418
JP2007532363 T2	20071115	JP20070508622T	20050418
JP2012006402 A2	20120112	JP20110184255	20110826
JP2012006403 A2	20120112	JP20110184257	20110826
JP4974081 B2	20120711	JP20070508616T	20050418
JP5037335 B2	20120926	JP20070508622T	20050418
JP5037717 B2	20121003	JP20110184255	20110826
JP5508363 B2	20140528	JP20110184257	20110826
KR100921267 B1	20091009	KR20067024071	20050418
KR20070010059 A	20070119	KR20067024069	20050418
KR20070012493 A	20070125	KR20067024071	20050418
MXPA06011806 A1	20061215	MX2006PA11806	20050418
MXPA06011853 A1	20070416	MX2006PA11853	20050418
RU2006140303 A	20080527	RU20060140303	20050418
RU2006140304 A	20080527	RU20060140304	20050418
RU2387540 C2	20100427	RU20060140303	20050418
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<u>WO05102668 A3</u>	20051229	WO2005US13150	20050418

Probable Assignee: CONCENTRATE MFG CO OF IRELAND

Assignee(s):^(std): ADVANCED PLASTICS TECH LTD ; ADVANCED PLASTICS TECHNOLOGIES ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG S A ; FARHA SAID ; FARHA SAID K ; CONCENTRATE MFG CO OF IRELAND ; CONCENTRATE MFG CO IRELAND ; HUTCHINSON GERALD ; LEE ROBERT ; HUTCHINSON GERALD A ; LEE ROBERT A ; EHDVANSID PLASTIKS TEKNOLODZHI ; THE CONCENTRATE MFG CO IRELAND

Assignee(s): CONCENTRATE MANUFACTURING CO OF IRELAND ; HUTCHINSON SHARON ; PEPSICO INC ; THE CONCENTRATE MANUFACTURING COMPANY OF IRELAND ; CONCENTRATE MFG CO OF IRELAND20 PARLIAMENT STREETCORNER HOUSEHM 12HAMILTONBM ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG SA82 ROUTE D'ARLONL-1150GRAND-DUCHYLUXEMBOURGLU ; EHDVANSID PLASTIKS TEKNOLODZHIZ LAKSEMBERG SA ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOURG SA ; EHDVANSID PLASTIKS TEKNOLODZHIZ LAKSEMBERG S A ; ADVANCED PLASTICS TECHNOLOGIES LTD ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOUG S A ; ADVANCED PLASTICS TECHNOLOGIES LUXEMBOUG SA

Inventor(s):^(std): LEE ROBERT ; SAID HUTCHINSON GERALD LEE ROB ; FARHA SAID ; HUTCHINSON GERALD ; LEE ROBERT A ; HUTCHINSON GERALD A ; FARHA SAID K ; LI ROBERT ; KHATCHINSON DZHERAL D ; FARKHA SAID ; EE ROBERT A L

Inventor(s): KHATCHINSON DZHERAL'D ; GERALD HUTCHINSON ; FARHA SAIDUS ; HUTCHINSON GERALDUS ; HUTCHINSON GERALD LEE ROBERT FARHA SAID ; SAID FARHA ; ROBERT LEE ; LEE ROBERTGB

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; LANG MICHENER LLP; MCMILLAN LLP; POLYPATENT; KNOBBE MARTENS OLSON AND BEAR LLP; BANNER AND WITCOFF LTD

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 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class
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International class
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European class:

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US class:

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Abstract:

Source: US2006065992A In preferred embodiments methods and apparatuses can produce articles that have formable material. The articles may be mono and multilayer. The articles can be formed by various methods.

0) US2006051539A – DLC FILM COATED PLASTIC CONTAINER, AND DEVICE A...

2) Family number: 30109328 (US2006051539A)

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Title: DLC FILM COATED PLASTIC CONTAINER, AND DEVICE AND METHOD FOR MANUFACTURING THE PLASTIC CONTAINER

Priority: AU20030241765 20030526 AU20090227865 20091019 JP20020154697 20020528
 EP20030733060 20030526 US20050514728 20050727 EP20090001090 20030526
 WO2003JP06528 20030526 US20100749175 20100329 US20120557737 20120725

Family:	Publication number	Publication date	Application number	Application date
	AT506270 E	20110515	AT20030733060T	20030526
	AT521545 E	20110915	AT20030001090T	20030526
	AU2003241765 AA	20031219	AU20030241765	20030526
	AU2003241765 BB	20090806	AU20030241765	20030526
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	EP2052987 A3	20090506	EP20090001090	20030526
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	US2006051539 AA	20060309	US20050514728	20050727
	US2010275847 AA	20101104	US20100749175	20100329
	US2013189448 AA	20130725	US20120557737	20120725
	US7754302 BB	20100713	US20050514728	20050727
	WO03101847 A1	20031211	WO2003JP06528	20030526

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OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK
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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO
CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW
HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG
MK ML MN MR MW MX MZ NE NI 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

International class
(IPC 8-9): B32B27/08 B65D23/02 B65D23/08 C23C16/04 C23C16/26 C23C16/448
C23C16/505 (Advanced/Invention);
B65D23/02 C23C16/00 C23C16/26 (Advanced/Non-invention);
B32B27/08 B65D23/00 C23C16/04 C23C16/26 C23C16/50 (Core/Invention);
C23C16/00 (Core/Non-invention)

International class
(IPC 1-7): B65D23/02 C23C16/26

CPC: B65D1/0215 B65D23/0814 C23C16/045 C23C16/505 Y10T428/1352 C23C16/26

European class: B65D1/02B1 B65D23/08B1 C23C16/04D C23C16/26 C23C16/505

US class: 118/723.00IP 118/723I 220/62.12 220/62.22 427/237 427/577 428/35.7

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Cited documents: WO9949991 A1, WO03102263 A1, WO0132513 A1, WO0071780 A1, US7166336 BA,
US7029752 BB, US6919114 BA, US6805931 BB, US6589619 BA, US6503579 BA,
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US5798139 A, US4746538 A, US4667620 A, US2007157885 AA, US2006051539 AA,
US2005118365 AA, US2003124229 AA, US2003087030 AA, JP8053117 A2,
JP2001335947 A2, JP2001335947, JP2001031045 A2, JP2001031045, EP1197581 A1,
EP1010773 A1,

Forward Citations: WO13110491, WO13110491, WO10119578, WO10045555, WO08114475, WO06058547,
WO05035825, US9764093, US9664626, US9662450, US9572526, US9554968,
US9545360, US9458536, US9445969, US9272095, US8950614, US8950356,
US8883257, US8834954, US8722163, US8512796, US7985188, US7967945,
US7887891, US7754302, US7166336, US2015150759, US2012052215, US2011001103,
US2010275847, US2010200587, US2009297730, US2009284421, US2008206477,
US2007235427, US2007157885, US2005266191, US2005230492, JP2008229968,
JP2006321528, JP2006160268,

Abstract:

Source: US2006051539A The present invention provides a plastic container having a inner wall surface coated with DLC film which has same level of oxygen barrier property as prior art and can prevent a coloring of the DLC film formed on a neck portion of the container, manufacturing apparatus therefor and manufacturing method thereof. The apparatus for manufacturing the DLC film coated plastic container, comprising: a container side electrode which forms one portion of a pressure-reducing chamber which houses a container formed from plastic, a facing electrode which faces said container side electrode and is arranged inside said container or above said opening, wherein said container side electrode and said facing electrode are made to face each other via an insulating body which forms a portion of said pressure-reducing chamber, source gas supply means which includes a supply gas inlet pipe, exhaust means, and high frequency supply means; wherein said container side electrode is formed so that the average inner hole diameter of the inner wall surrounding said neck portion when the container is housed becomes smaller than the average inner hole diameter of the inner wall surrounding said body portion, and the average distance between the outer wall of said container and the inner wall of said container side electrode in a horizontal cross section with respect to the vertical direction of said container at said neck portion becomes longer than the average distance between the outer wall of said container and the inner wall of said container side electrode in a horizontal cross section with respect to the vertical direction of said container at said body portion.

3) Family number: 28516897 (US2003075548A)

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Title: Beverage bottle cooling method and apparatus with assembly for holding ice and water

Priority: US20000246493P 20001106 US20010983107 20011023 US20020066656 20020206
 US20020298613 20021119 US20030482475P 20030626 US20030382526 20030307
 WO2002US17003 20020531 US20050535658 20050519 WO2003US36962 20031119
 US20030535658 20031119

Family:	Publication number	Publication date	Application number	Application date
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	AU2002310203 BB	20070405	AU20020310203	20020531
	AU2003297290 AA	20040615	AU20030297290	20031119
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	JP2005536705 T2	20051202	JP20030538662T	20020531
	MXPA04003802 A1	20050408	MX2004PA03802	20020531
	TWI230248 B	20050401	TW20020124561	20021023
	US2003075548 AA	20030424	US20020066656	20020206
	US2003146227 AA	20030807	US20020298613	20021119
	US2004172921 AA	20040909	US20030382526	20030307
	US2006196882 AA	20060907	US20030535658	20031119
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	US7118005 BB	20061010	US20020298613	20021119
	WO03036204 A1	20030501	WO2002US17003	20020531
	WO04045961 A2	20040603	WO2003US36962	20031119
	WO04045961 A3	20040812	WO2003US36962	20031119

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Agent(s): J D HARDIE AND CO; BLAKE CASSELS AND GRAYDON LLP; NISHIURA TSUGUHARU; J JOHN SHIMAZAKI; J JOHN

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 ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU 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

International class
 (IPC 8-9): [A47G19/14](#) [A47G19/22](#) [A47J41/00](#) [B65B21/08](#) [B65D23/02](#) [B65D25/00](#) [B65D25/32](#) [B65D81/38](#) [F25D3/00](#) [F25D3/08](#) [F25D31/00](#) (Advanced/Invention); [B65D83/72](#) (Advanced/Non-Invention); [B65B21/00](#) [B65D23/00](#) [B65D25/00](#) [B65D25/28](#) [B65D81/38](#) [F25D3/00](#) [F25D31/00](#) (Core/Invention); [B65D](#) (Subclass/Invention)

International class
 (IPC 1-7): [A47G19/14](#) [A47G19/22](#) [B65B21/08](#) [B65D23/02](#) [B65D25/00](#) [F25D3/00](#) [F25D3/08](#)

CPC: F25D31/007 F25D2303/081 F25D2303/082 F25D2303/0843 F25D2303/0845
F25D2331/803 F25D2331/808 F25D2331/809 F25D2500/02 B65D25/32 B65D81/3844
F25D2303/0841 F25D3/08

European class: B65D25/32 B65D81/38F3 F25D3/08 F25D31/00H2 R25D303/081 R25D303/082
R25D303/0843 R25D303/0845 R25D331/803 R25D331/808 R25D331/809 R25D500/02

US class: 220/23.87 220/23.89 220/592.17 220/737 220/739 53/449 62/457.3 62/457.4

[Classification Explorer](#)

Cited documents: US81814 A, US7118005 BB, US6705110 BA, US6588621 BB, US6588621 BA, US6516967 BB, US6516967 BA, US6398061 BB, US6398061 BA, US6276163 BA, US6240741 BA, US6112537 A, US6085543 A, US5967378 A, US592781 A, US5904267 A, US5862937 A, US5573141 A, US5555746 A, US5406808 A, US5390804 A, US5243835 A, US5177981 A, US5090213 A, US4870837 A, US4823974 A, US4798063 A, US4638645 A, US4338795 A, US4281520 A, US3998072 A, US3995445 A, US379823 A, US3765559 A, US3302427 A, US303815 A, US2926508 A, US2868411 A, US2838916 A, US2622415 A, US2032130 A, US2005077305 AA, US2003210141 AA, US1657927 A, US1519034 A, US1354712 A, US1280501 A, US1218827 A, US1009406 A, JP7014976 A2,

Forward Citations: WO14095755, WO13089984, WO13089984, WO10149402, WO08002884, WO06001037, WO05019064, WO05019064, USD710712, USD636232, US9801483, US9750625, US9603483, US9598186, US9468323, US9408779, US9320938, US9175876, US8783244, US8733338, US8578926, US8556108, US8528761, US8424713, US8360048, US8002129, US8001959, US7784759, US7712625, US7464567, US7337915, US7118005, US2016106247, US2015096324, US2014319158, US2014251319, US2013313272, US2013299443, US2012125943, US2011186264, US2011147395, US2010227027, US2010224510, US2010102023, US2009266737, US2009199843, US2009114791, US2009071968, US2008308559, US2008010123, US2007169506, US2006201165, US2006196882, US2006043250, US2005126209, US2003146227, JP2011229594, EP1668299, CN105329548, CN104918864, CN103284607,

Abstract:

Source: US2003075548A The present invention relates to a beverage bottle cooling method and apparatus comprising a container for containing ice and/or water that is adapted to have a commercial beverage bottle positioned substantially therein, wherein regular ice and/or water can be stored and sealed within the space between the bottle and container, to help keep the beverage inside cool. The space is preferably substantially sealed by a cap which is adapted with an opening and sealing ring that extends over the neck of the bottle, wherein the bottle can be held in substantial compression between the sealing ring and one or more supports extending substantially underneath the bottle. The supports preferably provide vertical and lateral support to the bottle, and substantially prevent the bottle in the cooling device from rotating, which enables the bottle lid to be easily opened and closed. The container is also preferably adapted in relation to the bottle in a way that enables the bottle to be held in an elevated position, so as to maximize contact with ice, and ice to be easily displaced when the bottle is inserted into the container.

0) US2009277859A – CAP CLOSURE

4) Family number: 41699427 (US2009277859A)

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Title: CAP CLOSURE

Priority: GB19980011308 19980526 GB20000027403 19990409 JP20000550757 19990409
US20000701057 20001122 US19990701057 19990409 NZ20030508267 20030226
US20090505227 20090717 WO1999GB01094 19990409 WO1998GB03433 19981113

Family:

Publication number	Publication date	Application number	Application date
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AU752089 B2	20020905	AU19990034324	19990409
BRPI9911599 A	20010213	BR1999PI11599	19990409
BRPI9911599 B1	20090113	BR1999PI11599	19990409
CA2333449 AA	20001124	CA19992333449	19990409
CA2333449 C	20070814	CA19992333449	19990409
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<u>RU2225815 C2</u>	20040320	RU20000130132	19990409	
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<u>US7721901 BA</u>	20100525	US19990701057	19990409	
<u>US7931163 BB</u>	20110426	US20090505227	20090717	
<u>WO9961336 A1</u>	19991202	WO1998GB03433	19981113	
<u>WO9961337 A2</u>	19991202	WO1999GB01094	19990409	
<u>WO9961337 A3</u>	20000224	WO1999GB01094	19990409	
<u>ZA200006764 A</u>	20011120	ZA20000006764	20001120	

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

International class
(IPC 8-9): B65B3/02 B65B7/28 B65D1/02 B65D17/28 B65D17/30 B65D41/00 B65D43/02 B65D47/10 B65D47/20 B65D47/36 B65D51/00 B65D51/18 B65D51/20 B65D8/18 (Advanced/Invention); B65B51/10 B65D1/02 B65D17/28 B65D41/00 (Advanced/Non-invention); B65B3/00 B65B7/28 B65D1/02 B65D17/28 B65D41/00 B65D43/02 B65D47/00 B65D47/06 B65D51/00 B65D51/18 B65D8/04 (Core/Invention); B65B51/10 B65D41/00 (Core/Non-invention)

International class
(IPC 1-7): B65B7/28 B65D B65D1/02 B65D1/40 B65D17/28 B65D17/30 B65D41/32 B65D47/10 B65D47/36 B65D51/20 B65D8/18 B67B3/0 B67B3/00 B67B3/00 B67C7/00

CPC: B65D43/021 B65D2543/00518 B65D2543/00537 B65D2543/00555 B65D51/20 B65B3/022 B65B7/2878 B65D1/0238 B65D47/103 B65D2251/0015 B65D2251/0018 B65D2251/0056 B65D2251/0087 B65D2251/0093 B65D2543/00629 B65D2543/00685 B65D2543/0074 B65D2543/00796

European class: B65B3/02B B65B7/28F4 B65D1/02D1A B65D43/02S3D B65D47/10A B65D51/20 L65D251/00Y2D L65D251/00Y2F L65D251/00Y4J L65D251/00Y6J L65D251/00Y6M L65D543/00Y8D1E L65D543/00Y8D3 L65D543/00Y8D5 L65D543/00Y8S1B4 L65D543/00Y8S1D2 L65D543/00Y8S3B4 L65D543/00Y8S3D2

US class: 215/232 215/256 215/256S 215/316 215/316S 220/254.1 220/359.4 53/478

[Classification Explorer](#)

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JP54157161 A2, JP54054552 A2, JP540157161, JP10513157 T2, JP10513137 T2, GB2181419 A1, GB2108464 A1, EP0755871 A1, EP0411578 A1, EP0126575 A2, DE4340553 A1, CA2176921 AA, AU7993194 A1,

Forward Citations: WO14081413, WO13144560, WO09150204, WO08092200, WO08024775, WO07096674, WO06010960, WO05016779, WO04035410, WO03076293, WO03076293, WO03062061, WO0166430, USD701121, USD589796, USD530603, US9738409, US9663277, US9522759, US9403310, US9139326, US9033168, US9027769, US8919594, US8887937, US8887936, US8881929, US8857637, US8827094, US8770423, US8733600, US8678215, US8573423, US8528736, US8523016, US8511500, US8485360, US8403175, US8302805, US8113374, US8091242, US7971747, US7963409, US7878352, US7584842, US7578040, US6902075, US6883689, US2015274330, US2012187158, US2011155753, US2011127232, US2009188887, US2008237178, US2008078775, TWI316038, RU2619097, RU2517137, RU2493073, JP2011168169, JP2009220889, JP2009113867, GB2516175, GB2430668, GB2430668, GB2416763, GB2416763, GB2416535, GB2416535, GB2407085, GB2407085, GB2404916, GB2404916, GB2384478, GB2384478, GB2375346, GB2375346, GB2374068, GB2374068, FR2806070, EP2922762, EP2167385, EP2167385, EP1687212, EP1656306, DE102007049750, CN104114455, CN104114455, CN102596744, CN102596744, CN102285479, CN102285479, AU2009256633, AU2005266155, AU2004265129, AU2003202049,

Abstract:

Source: US2009277859A A sealing arrangement for a plastic bottle includes a blow-molded bottle having a body and a mouth that includes an opening, an injection molded neck that includes a continuous wall that defines a top wall-opening and a bottom wall-opening. The top wall-opening provides a pour spout for liquid contained within the body of the bottle. The bottom wall-opening is fused to the mouth of the bottle so as to surround the bottle's opening. A removable flange is located generally within the bottom wall-opening and a frangible region connects the flange to the wall. A foil is secured to a side of the flange that is generally adjacent to the bottom wall-opening, and the foil is adapted to close the bottom wall-opening. A plurality of foil-cutting teeth are carried by the wall generally adjacent to the bottom wall-opening, generally adjacent to the side of the flange and generally adjacent to the foil. A pull member is secured to the flange. Manual operation of the pull member separates the flange from the wall, as at least a portion of the foil is cut by the teeth. An injection-molded cap removably closes the top wall-opening. The wall includes a weakened portion that will break upon an attempt to physically remove the wall from the bottle. The cap includes a cover plate that covers the top wall-opening and a skirt that extends from the cover plate to cover the weakened portion of the wall.

0) US2007158294A – MOUTH CYLINDRICAL PART OF SYNTHETIC RESIN BOTTL...

5) Family number: 32133808 (US2007158294A)

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Title: MOUTH CYLINDRICAL PART OF SYNTHETIC RESIN BOTTLE
Priority: EP20050704064 20050125 JP20040024304 20040130 JP20040024626 20040130
WO2005JP00883 20050125

Family:	Publication number	Publication date	Application number	Application date
	<u>AU2005209521 AA</u>	20050811	AU20050209521	20050125
	<u>AU2005209521 BB</u>	20101021	AU20050209521	20050125
	<u>AU2005209521 BH</u>	20110303	AU20050209521	20050125
	<u>CA2547704 AA</u>	20060530	CA20052547704	20050125
	<u>CA2547704 C</u>	20111213	CA20052547704	20050125
	<u>CN100519352 C</u>	20090729	CN200580000105	20050125
	<u>CN1764572 A</u>	20060426	CN200580000105	20050125
	<u>DE602005029701 D1</u>	20111027	DE200560029701T	20050125
	<u>EP1714887 A1</u>	20061025	EP20050704064	20050125
	<u>EP1714887 A4</u>	20090826	EP20050704064	20050125
	<u>EP1714887 B1</u>	20110824	EP20050704064	20050125
	<u>JP2005212872 A2</u>	20050811	JP20040024304	20040130
	<u>JP2005212876 A2</u>	20050811	JP20040024626	20040130
	<u>JP4362821 B2</u>	20091111	JP20040024626	20040130
	<u>JP4432077 B2</u>	20100317	JP20040024304	20040130
	<u>KR101094487 B1</u>	20111220	KR20057020495	20051028
	<u>KR20060119710 A</u>	20061124	KR20057020495	20050125
	<u>US2007158294 AA</u>	20070712	US20050579496	20050125
	<u>US7735663 BB</u>	20100615	US20050579496	20050125
	<u>WO05073096 A1</u>	20050811	WO2005JP00883	20050125

Probable Assignee: YOSHINO KOGYOSHO CO LTD

Assignee(s):^(std): IIZUKA TAKAO ; KOSHIDAKA YUKIO ; SHIMIZU KAZUHIKO ; TANAKA TOSHIMASA ; YOSHINO KOGYOSHO CO LTD

Assignee(s): YOSHINO KOGYOSHO CO

Inventor(s):^(std): IIZUKA TAKAO ; KAZUHIKO SHIMIZU ; KAZUHIKO TANAKA TOSHIMASA IIZU ; KOSHIDAKA YUKIO ; SHIMIZU KAZUHIKO ; TAKAO IIZUKA ; TANAKA TOSHIMASA ; TOSHIMASA TANAKA ; YUKIO KOSHIDAKA

Inventor(s): TANAKA TOSHIMASA IIZUKA TAKAO KOSHIDAKA YUKIO ; TANAKA TOSHIMASA IIZUKA TAKAO KOSHIDAKA YUKIO SHIM

Agent(s): SPRUSON AND FERGUSON; FETHERSTONHAUGH AND CO; KLINGSEISEN RINGS AND PARTNER PATENTANWALTE; KLINGSEISEN FRANZ; OLIFF AND BERRIDGE PLC

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 KE KG KP KR KZ LC 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

International class
^{(IPC 8-9):} B29C49/64 B65B7/28 B65D1/02 B65D1/26 B65D1/46 (Advanced/Invention);
B29L22/00 B65D1/02 B65D1/26 (Advanced/Non-invention);
B29C49/64 B65D1/02 (Core/Invention)

International class
^{(IPC 1-7):} B29C49/64 B65D1/02

CPC:

B29B11/08 B29B11/14 B29B2911/1402 B29B2911/14026 B29B2911/14033
B29B2911/1404 B29B2911/14106 B29B2911/14133 B29B2911/14326 B29B2911/1434
B29B2911/1442 B29B2911/1444 B29B2911/14466 B29C49/06 B29K2067/00
B29L2031/7158 B65D1/0223 B65D1/0246 B65D2501/0018 B65D2501/0036

European class: B65D1/02D B65D1/02D1B L29B11/08 L29B11/14 L29B911/14B2B L29B911/14B2D
L29B911/14B2F L29B911/14B2H L29B911/14B4L L29B911/14B4N L29B911/14D10D4
L29B911/14D10D4D2 L29B911/14D10D4F L29B911/14D2 L29B911/14D6 L29C49/06
L29K67/00 L29L31/7158 L65D501/02Y1 L65D501/02Y1C

US class: 215/42 215/43 215/43P 215/44 215/45 220/288

[Classification Explorer](#)

Cited documents: WO9962770 A1, WO02098755 A1, US7097056 BB, US6659297 BB, US6626324 BA, US6626324, US6359401 BA, US6351043 BA, US6105802 A, US6044992 A, US6006930 A, US5780945 A, US5307946 A, US4969797 A, US4419894 A, US2002148800 AA, JP2002053117 A2, JP2002053117, JP2000503944 T2, JP2000503944 T2, JP10058527 A2, EP0669255 A1,

Forward Citations: WO16176672, US9738409, US9522759, US9403310, US9359099, US8413829, US8308002, US8292102, US2015041426, US2014231375, US2010314348, US2010089863, US2008314856, JP6083606, JP2015008935, JP2009524561, JP2008273594,

Abstract:

Source: US2007158294A A resource-saving neck of a synthetic resin bottle having high resistance to pressure and heat and a high, stable sealing property is provided. The part is aimed at equalizing an effect of thread-formed portions on the crystallization of a molten resin material along the circumferential direction of the part. These objectives are achieved by (1) forming screw threads of a multi-threaded screw structure on the outer surface of the neck wall, each screw thread comprising a main thread, with a starting and ending extension, with a width and height thereof being reduced gradually; (2) disposing the starting extension of a screw thread vertically above the ending extension of another thread; and (3) whitening the entire part by thermal crystallization. Sinks are prevented in the neck wall, and the height can be restricted despite increase in the diameter.

0) US2005016129A – PLUG REPLACING DEVICE AND PLUG REPLACING METHOD...

6) Family number: 32382571 (US2005016129A)

© PatBase

Title: PLUG REPLACING DEVICE AND PLUG REPLACING METHOD

Priority: JP20020149117 20020523 JP20030064146 20030310 JP20030145574 20030523
 US20030493815 20030523 NZ20030536670 20030523 NZ20030536671 20030523
 US20050125519 20050510 US20040493815 20040428 US20060349878 20060208
 US20060493815 20060425 WO2003JP06491 20030523 WO2003JP06490 20030523
 US20060639014 20061214

Family:

Publication number	Publication date	Application number	Application date
AT365144 E	20070715	AT20030733049T	20030523
AT381513 E	20080115	AT20030733050T	20030523
AU2003241754 AA	20031212	AU20030241754	20030523
AU2003241754 BB	20081218	AU20030241754	20030523
AU2003242444 AA	20031212	AU20030242444	20030523
AU2003242444 BB	20080207	AU20030242444	20030523
CA2477146 AA	20040823	CA20032477146	20030523
CA2477147 AA	20040823	CA20032477147	20030523
CA2477147 C	20091229	CA20032477147	20030523
CN100383034 C	20080423	CN20038001619	20030523
CN1332874 C	20070822	CN20038001737	20030523
CN1596220 A	20050316	CN20038001619	20030523
CN1602281 A	20050330	CN20038001737	20030523
DE60314534 D1	20070802	DE20036014534	20030523
DE60314534 T2	20080221	DE20036014534T	20030523
DE60318231 D1	20080131	DE20036018231	20030523
DE60318231 T2	20081204	DE20036018231T	20030523
EP1550631 A1	20050706	EP20030733049	20030523
EP1550631 A4	20051019	EP20030733049	20030523
EP1550631 B1	20070620	EP20030733049	20030523
EP1553046 A1	20050713	EP20030733050	20030523
EP1553046 A4	20060125	EP20030733050	20030523
EP1553046 B1	20071219	EP20030733050	20030523
ES2298526 T3	20080516	ES20030733050T	20030523
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JP2003099704 A1	20050922	JP20040507371T	20030523
JP2004043030 A2	20040212	JP20030145574	20030523
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JP3601823 B2	20041215	JP20040507371T	20030523
JP3649334 B1	20050518	JP20040507368T	20030523
JP3649334 B2	20050518	JP20040507368T	20030523
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KR100598278 B1	20060707	KR20047010334	20030523
KR20040111340 A	20041231	KR20047010334	20030523
KR20050007431 A	20050118	KR20047010026	20030523
NZ536670 A	20081128	NZ20030536670	20030523
NZ536671 A	20080829	NZ20030536671	20030523
NZ569113 A	20090925	NZ20030569113	20030523
NZ569114 A	20090925	NZ20030569114	20030523

<u>NZ569225 A</u>	20091030	NZ20030569225	20030523
<u>US2005016129 AA</u>	20050127	US20040493815	20040428
<u>US2005204704 AA</u>	20050922	US20050125519	20050510
<u>US2005230414 AA</u>	20051020	US20040514059	20041109
<u>US2006191242 AA</u>	20060831	US20060349878	20060208
<u>US2007090082 AA</u>	20070426	US20060639014	20061214
<u>US7032364 BB</u>	20060425	US20040493815	20040428
<u>US7162851 BB</u>	20070116	US20050125519	20050510
<u>US7287670 BB</u>	20071030	US20040514059	20041109
<u>US7299601 BB</u>	20071127	US20060349878	20060208
<u>WO03099701 A1</u>	20031204	WO2003JP06490	20030523
<u>WO03099704 A1</u>	20031204	WO2003JP06491	20030523

Probable Assignee: EIJI YOSHIDA C O EVERYDAYWINE

Assignee(s):^(std): ISHIMATSU TATSURO ; YAHAGI KEIICHI ; MATSUNAGA HIROYUKI ; OTAKE SATOSHI ; MATSUMOTO HIROKI ; NAGAO KAGENORI ; KUDO SATOMI ; KAWAGUCHI ERI ; NAKAYAMA IKUO ANDREAS ; OGINO YUTA ; NAKAJIMA SYOTARO ; NAKAYAMA IKUO A ; YOSHIDA EIJI ; YOSHIDA YUSUKE ; EIJI YOSHIDA ; EIJI YOSHIDA C O EVERYDAYWINE

Assignee(s): EIJI YOSHIDA C O EVERYDAYWINE CO ; EIJI YOSHIDA C O EVERYDAYWINE CO LTD

Inventor(s):^(std): YUTA OGINO ; YUSUKE YOSHIDA ; TATSURO ISHIMATSU ; SYOTARO NAKAJIMA ; SATOSHI OTAKE ; IKUO ANDREAS NAKAYAMA ; HIROKI MATSUMOTO ; YOSHIDA YUSUKE ; YOSHIDA EIJI ; YAHAGI KEIICHI ; SATOMI KUDO ; OTAKE SATOSHI ; OTAKE MASARU ; OGINO YUTO ; OGINO YUTA ; NAKAYAMA YUKIO ANDREAS ; NAKAYAMA IKUO ANDREAS ; NAKAYAMA IKUO A ; NAKAJIMA SYOTARO ; NAKAJIMA SHOTARO ; NAGAO KAGENORI ; MATSUNAGA HIROYUKI ; MATSUMOTO HIROKI ; KUDO TOMOMI ; KUDO SATOMI ; KEIICHI YAHAGI ; KAWAGUCHI ERI ; KAGENORI NAGAO ; ISHIMATSU TATSURO ; HIROYUKI MATSUNAGA ; ERI KAWAGUCHI ; EIJI YOSHIDA ; HIROYUKI YOSHIDA EIJI YAHAGI K

Inventor(s): NAKAYAMA IKUO ; YOSHIDA EIJI YAHAGI KEIICHI MATSUNAGA HIROYUKI

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MARKS AND CLERK; DUANE MORRIS LLP IP DEPARTMENT; DUANE MORRIS LLP; DUANE MORRIS LLP, IP DEPARTMENT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI 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

International class
(IPC 8-9): B65B31/00 B65B31/02 B65B31/04 B65B7/28 B65D39/00 B65D51/16 B67B1/00 B67B1/04 B67B1/06 B67B3/24 B67B7/04 B67B7/06 B67B7/18 B67B7/44 B67D1/14 B67D3/00 B67D7/08 B67D7/80 F16D11/00 G01F11/02 G01F11/32 G01F15/18 (Advanced/Invention); B67B1/06 B67B7/06 B67D1/00 B67D1/04 B67D3/00 (Advanced/Non-invention); B67B1/00 B67B7/00 B67D1/00 B67D3/00 B67D7/08 B67D7/80 G01F11/00 G01F11/02 G01F15/00 (Core/Invention)

International class
(IPC 1-7): B65B31/02 B65B31/04 B65B7/28 B67B1/04 B67B1/06 B67B3/24 B67B7/04 B67B7/06 B67B7/44 B67D1/14 B67D3/00 F16D11/00 G01F11/00

CPC: B67D3/0003 B67D2001/0481 B67D2001/0814 G01F11/028 G01F11/32 G01F15/18 B65D39/0052 B67B1/00 B67B1/045 B67B7/04 B67B7/0411 B67B7/0441

European class: B65D39/00G B67B1/00 B67B1/04B B67B7/04 B67B7/04D B67B7/04F6 B67D3/00B B67D3/00G G01F11/02B8D G01F11/32 G01F15/18 L67D1/04G2 L67D1/08A32B

US class: 215/315 215/355 215/355S 215/364 215/364S 222/1 222/129 222/146.6 222/1P 222/399 222/481.5 222/61 53/109 53/264 53/319 53/319S 53/328 53/381.1 53/381.100S 53/381.4 53/403 53/432 53/432P 53/468 53/478 53/485 53/485S 53/489 53/492 53/492S 53/51 53/510 53/510P 53/510S 53/79 53/86

[Classification Explorer](#)

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US6026867 A, US5996620 A, US5848736 A, US5802812 A, US5697526 A, US5458165 A, US5347889 A, US5299408 A, US5228601 A, US5038548 A, US5012703 A, US4938387 A, US4911314 A, US4763803 A, US4706847 A, US4655029 A, US4555371 A, US4475576 A, US4467846 A, US4374464 A, US4281779 A, US4005807 A, US3699740 A, US3221946 A, US3220695 A, US2265676, US2002070234 AA, US1842226 A, US1483119 A, JP8244885 A2, JP62106827 A2, JP60183390 A2, JP56151700 A2, JP4502298 T2, JP4502298, JP4502298, JP4132094 A2, JP4087988 A2, JP40013155 B1, JP40013155 B1, JP40013155 A2, JP3067415 U, JP3067415 U, JP3067415 B4, JP3067415 B2, JP3067415, JP3028335 U, JP3028335, JP2507385 Y2, JP2507385 Y2, JP2507385 B2, JP2507385, JP2507385, JP2001354206 A2, JP2001354206, JP2001122397 A2, JP2001122397, JP2001058700 A2, JP1150600 U1, JP1150600, JP11009986, JP10245099 A2, GB343328 A, GB2322851 A1, FR2650816 A1, FR2616767 A1, FR2601962 A1, DE4107567 A1, DE3928852 A1,

Forward Citations: WO16144503, WO15001243, WO14155314, WO12158349, WO10005552, WO10005552, WO09068054, WO09068054, WO08149710, WO08118130, US9790071, US9714857, US9656847, US9340403, US9168202, US8987331, US8978546, US8814000, US8789716, US8636179, US8464910, US8434642, US8394334, US8348097, US8162176, US7543978, US7454883, US2016367083, US2016052763, US2016003659, US2015259186, US2014242241, US2014183227, US2013277396, US2012186201, US2011204093, US2010276453, US2010213219, US2010155419, US2010151415, US2009277929, US2009218603, US2009064407, US2008223812, US2008219092, US2007277482, US2007181601, US2007169434, US2007084820, TWI583600, KR100846670, KR100723931, ITMI20121875, FR3007999, FR2997932, FR2994172, EP2727878, CN105358241, CN105358241, CN103596475, CN102582873, CN102582873, CN102009753, AU2007361754,

Abstract:

Source: US2005016129A A stopper change device (10) includes an airtight chamber body (21) detachably mountable on a head of a bottle, a gas supply port (19) for supplying N gas to the chamber body, an air vent valve (57) for discharging air from the chamber body, a first supporting structure (28) movable upward and downward for supporting a corkscrew, and a second supporting structure (34) movable upward and downward for containing a substitute stopper. The first and second supporting structures are mutually position changeable, and one of them is selectively placed above an opening of the bottle. When the first supporting structure (28) is placed above the opening, a bottle stopper can be pulled in N gas atmosphere. On the other hand, when the second supporting structure (34) is placed above the opening, the substitute stopper is mountable on the head of the bottle in N gas atmosphere. By changing the bottle stopper with the substitute stopper using this device, entering of air in the bottle as a cause of deterioration in a quality can be prevented.

0) US5476170A – BOTTLE CARRIER HAVING IMPROVED GRIPPING MEANS

7) Family number: 30134583 (US5476170A)

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Title: BOTTLE CARRIER HAVING IMPROVED GRIPPING MEANS

Priority: EP19950922310 19950613 EP19950922310 19950613 US19940259401 19940613
WO1995US07453 19950613 WO1995US07453 19940613

Family:

Publication number	Publication date	Application number	Application date
AT234772 E	20030415	AT19950922310T	19950613
AT289954 E	20050315	AT19950018604T	19950613
AU199527041 A1	19960105	AU19950027041	19950613
AU691004 B2	19980507	AU19950027041	19950613
BRPI9507986 A	19970805	BR1995PI07986	19950613
CA2192679 AA	19961211	CA19952192679	19950613
CA2192679 C	20001017	CA19952192679	19950613
CL1995000840 A1	19960429	CL19950000840	19950613
DE69529983 D1	20030424	DE19956029983	19950613
DE69529983 T2	20030904	DE19956029983T	19950613
DE69534051 D1	20050407	DE19956034051	19950613
DE69534051 T2	20050811	DE19956034051T	19950613
DK0762981 T3	20030623	DK19950922310T	19950613
DK1275592 T3	20050627	DK19950018604T	19950613
EP0762981 A1	19970319	EP19950922310	19950613
EP0762981 A4	19980812	EP19950922310	19950613
EP0762981 B1	20030319	EP19950922310	19950613
EP1275592 A2	20030115	EP20020018604	19950613
EP1275592 A3	20030122	EP20020018604	19950613
EP1275592 B1	20050302	EP20020018604	19950613
ES2194912 T3	20031201	ES19950922310T	19950613
ES2239695 T3	20051001	ES20020018604T	19950613
JP2000511135 T2	20000829	JP19960502389T	19950613
JP3431161 B2	20030728	JP19960502389T	19950613
KR100332826 B1	20020703	KR19960707200	19961211
KR19970703897 A	19970809	KR19960707200	19940613
MX9606280 A1	19980331	MX19960006280	19950613
NZ288118 A	19980226	NZ19950288118	19950613
PT1275592 T	20050630	PT20020018604T	19950613
PT762981 T	20030630	PT19950922310T	19950613
US5476170 A	19951219	US19940259401	19940613
WO9534487 A1	19951221	WO1995US07453	19950613

Probable Assignee: MEADWESTVACO PACKAGING SYSTEMS LLC

Assignee(s):^(std): MEADWESTVACO PACKAGING SYSTEMS ; MEAD CORP

Assignee(s): MEAD CORP DAYTON ; MEADWESTVACO PACKAGING SYSTEMS LLC ;
MEADWESTVACO PACKAGING SYSTEMS LLC STAMFORD ; WEBER CLAUDIA

Inventor(s):^(std): WEBER CLAUDIA ; CLAUDIA WEBER

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; RIDOUT AND MAYBEE LLP;
PORZIO

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

International class B65D67/02 B65D71/00 B65D71/12 B65D71/46 B65D71/48 (Advanced/Invention);
(IPC 8-9): B65D75/00 (Advanced/Non-Invention);
B65D71/40 (Core/Invention)

International class B65D67/02 B65D71/00 B65D71/12 B65D71/40 B65D71/46 B65D71/48 B65D75/00
(IPC 1-7): B65D79/00

CPC: B65D71/48

European class: B65D71/48

US class: 206/147 206/153 206/159

[Classification Explorer](#)

Cited documents: US5273156 A, US4621734 A, US4318476 A, US4180191 A, US3834750 A, US3640563 A, US3528697 A, US2823063 A, US2823062 A, US2764284 A, GB1286211 A, FR1423952 A, EP0170259 A2, EP0048506 A1, DE3321036 A1, DE1915479 A1,

Forward Citations: USD420575, US9511916, US9446891, US9376250, US9169050, US9079699, US8955674, US8936149, US8701878, US8631932, US8602209, US7409794, US6488322, US5845776, US5788302, US5590776, US2011284623, JP5506708, JP5174981, JP2012153419, EP0673337, CN103052570, CN103052570,

Abstract:

Source: US5476170A A bottle carrier includes a tubular structure including a base wall and a top portion disposed above the base wall, neck-gripping edges provided for the top portion to engage the underside of a peripheral neck projection of a bottle, and shoulder-gripping flaps provided for the base wall to engage and press down on the shoulder of the bottle. The top portion of the tubular structure has an upper aperture for receiving the neck of the bottle whereas the base wall has a lower aperture for receiving the shoulder of the bottle. The upper and lower apertures are disposed in vertical alignment with each other. Due to the shoulder-gripping flaps, the carrier is urged upward even when in a displayed condition, and thereby the neck-gripping edges are pressed against and kept in firm engagement with the underside of the peripheral projection without vertical play.

8) Family number: 29580953 (US2005218140A)

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Title: OPENING CURLED PART OF METAL CONTAINER AND METHOD OF FORMING THE OPENING CURLED PART

Priority: JP20020127869 20020430 JP20020266714 20020912 JP20030017021 20030127
 US20040512992 20041029 US20080241412 20080930 JP20030072267 20020317
 US20030512992 20030428 JP20030072267 20030317 JP20030209231 20030828
 WO2003JP05433 20030428

Family:	Publication number	Publication date	Application number	Application date
	CA2483666 AA	20041029	CA20032483666	20030428
	CA2483666 C	20090317	CA20032483666	20030428
	EP1500598 A1	20050126	EP20030719234	20030428
	EP1500598 A4	20070613	EP20030719234	20030428
	EP1500598 B1	20090513	EP20030719234	20030428
	JP2004026306 A2	20040129	JP20030072267	20030317
	JP2004154862 A2	20040603	JP20030209231	20030828
	JP2004224417 A2	20040812	JP20030017021	20030127
	JP4293349 B2	20090708	JP20030209231	20030828
	JP4375704 B2	20091202	JP20030017021	20030127
	JP4375706 B2	20091202	JP20030072267	20030317
	US2005218140 AA	20051006	US20040512992	20041029
	US2009035096 AA	20090205	US20080241412	20080930
	US7497350 BB	20090303	US20040512992	20041029
	US7721578 BB	20100525	US20080241412	20080930
	WO03093121 A1	20031113	WO2003JP05433	20030428

Probable Assignee: DAIWA CAN CO LTD**Assignee(s):^(std):** DAIWA CAN CO LTD ; ENOKI YASUSHI ; MATSUO TOSHIO**Assignee(s):** DAIWA CAN COMPANY ; DAIWA CAN CO**Inventor(s):^(std):** ENOKI YASUSHI ; MATSUO TOSHIO**Agent(s):** BORDEN LADNER GERVAIS LLP; HIGGS JONATHAN ET AL; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP**Designated states:** CA GB US

International class
 (IPC 8-9): [B21B1/00 B21D11/20 B21D19/12 B21D51/18 B21D51/24 B21D51/26 B21D51/32 B21D51/38 B65D1/02 B65D1/16 B65D1/42 B65D51/16 B65D8/02 B65D8/16 B65D8/20 C23C26/00](#) (Advanced/Invention);
[C09J5/10](#) (Advanced/Non-invention);
[B21D19/00 B21D51/16 B21D51/26 B21D51/30 B21D51/38 B65D1/00 B65D1/02 B65D51/16 B65D8/00 B65D8/04 C23C26/00](#) (Core/Invention);
[C09J5/10](#) (Core/Non-invention)

International class
 (IPC 1-7): [B21D19/12 B21D51/18 B21D51/38 B65D1/40 B65D8/02 B65D8/16 C23C26/00](#)

CPC: [B65D7/04 B65D7/38 B65D51/1688](#)**European class:** [B65D51/16E3 B65D7/04 B65D7/38](#)**US class:** [220/619 220/62.22 220/62.220P 220/658 413/4 413/6 413/6P 72/101 72/125 72/379.4](#)[Classification Explorer](#)

Cited documents: WO9615865, WO0138185 A1, WO0123117 A1, WO0115829 A1, US6959830 BA, US6499329 BA, US6463776, US6119890 A, US5718352 A, US5072605 A, US4938051 A, US3478921 A, US2384810 A, US2157896 A, JPH10509095, JP8085582 A2, JP62022945 U1, JP62022945 A2, JP61051314 U1, JP61051314 A2, JP6007619 A2, JP60028571,

JP56024431 A2, JP56014051 A2, JP52150183 A2, JP5049123, JP2003040265 A2, JP2002225865 A2, JP2001233333 A2, JP2001213417 A2, JP2000191006 A2, JP10509095 T2, JP10509095, JP10216893, GB1571938 A, EP1247750 A1,

Forward Citations: WO11046713, WO07122724, USD758207, USD742251, US9067254, US9061787, US8903528, US8857232, US8726710, US8726709, US8627697, US8567224, US8448487, US8381561, US8286460, US8181814, US2014299566, US2013220964, US2013146594, US2012297848, US2010330244, US2010297305, US2010139354, US2010100213, US2010095735, US2010095734, US2010095728, US2010095723, US2010095514, US2009277862, US2009165526, US2009101661, US2009061133, US2008078769, KR101304203, JP2010042853, JP2008200743, JP2007284097, JP2006188279, EP2781278, EP2011737, EP2008938, EP1914025, EP1914025, CN105644887, CN103433402,

Abstract:

Source: US2005218140A A configuration of an outwardly curled portion formed on an opening portion of a metal can, in which both inner and outer faces of a metal sheet forming at least around the opening portion are covered with a resin film, in which the curled portion formed above an inclined face by curling an upper end of a trim end portion so as to confine it inside of the curled portion, as being squeezed in the can radius direction so as to contact its lower end with the inclined face, and in which the metal sheet layers are folded in the can radius direction via the resin films in the most part but except around both upper and lower ends of the curled portion. Accordingly, the trim end portion of in the curled portion can be prevented from getting rusty, and deterioration in the appearance of the curled portion can be avoided. Moreover, the strength of the curled portion is enhanced so that the resistance against the deformation is improved.

0) US2004251228A – SNAP–ON SCREW–OFF CLOSURE WITH RETAINING MEMBER...

9) Family number: 15831595 (US2004251228A)

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Title: SNAP–ON SCREW–OFF CLOSURE WITH RETAINING MEMBER FOR
TAMPER–INDICATING BAND

Priority: US19970961440 19971030 US19980145690 19980902 US19990414179 19991007
US20040869622 20040616 WO1998US22933 19981029

Family:	Publication number	Publication date	Application number	Application date
	AT261861 E	20040415	AT19980955191T	19981029
	CA2307851 AA	20000428	CA19982307851	19981029
	CA2307851 C	20070821	CA19982307851	19981029
	DE69822493 D1	20040422	DE19986022493	19981029
	DE69822493 T2	20041223	DE19986022493T	19981029
	EP1027261 A2	20000816	EP19980955191	19981029
	EP1027261 B1	20040317	EP19980955191	19981029
	MXPA00004145 A1	20030801	MX2000PA04145	19981029
	US2004251228 AA	20041216	US20040869622	20040616
	US6059134 A	20000509	US19970961440	19971030
	US6305579 BA	20011023	US19990414179	19991007
	US6793082 BA	20040921	US19980145690	19980902
	US7228979 BB	20070612	US20040869622	20040616
	WO9923002 A2	19990514	WO1998US22933	19981029
	WO9923002 A3	19990819	WO1998US22933	19981029

Probable Assignee: SILGAN IPEC CORP

Assignee(s):^(std) INT PLASTICS AND EQUIPMEN ; INT PLASTICS AND EQUIPMENT COR

Assignee(s): INT PLASTICS AND EQUIPMENT CORP ; LONG CHARLES J ; INT PLASTICS AND
EQUIPMENT CORP NEW CAST ; SILGAN IPEC CORP ; INT PLASTICS AND
EQUIPMENT CORP NEW CASTLE ; LONG CHARLES J JR

Inventor(s):^(std) LONG J ; LONG JR CHARLES J ; LONG CHARLES J ; LONG JR CHARLES C ; LONG
CHARLES J JR ; CHARLES J LONG JR

Inventor(s): LONG ; JR CHARLES J

Agent(s): BORDEN LADNER GERVAIS LLP; DAVID V; ROBERT A

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

International class
^{(IPC 8–9):} [B65D41/00](#) [B65D41/34](#) [B65D41/47](#) [B65D41/58](#) ^{(Advanced/Invention):}
[B65D41/00](#) [B65D41/32](#) [B65D41/34](#) ^(Core/Invention)

International class
^{(IPC 1–7):} [B65D41/34](#) [B65D41/58](#)

CPC: [B65D41/3447](#) [B65D41/47](#) [B65D41/58](#)

European class: [B65D41/34D1](#) [B65D41/47](#) [B65D41/58](#)

US class: [215/252](#) [215/253](#) [215/318](#) [215/329](#) [215/341](#) [215/354](#) [215/44](#) [215/45](#) [220/296](#) [222/153.02](#)
[222/153.06](#) [222/525](#)

[Classification Explorer](#)

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WO9620872, WO9613442, WO9418084 A1, WO9414673, US94834296, US92774396,
US92731196, US83813396, US74948896, US68714996, US6793082 BA, US6769575
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Forward Citations: WO15065481, WO14041442, WO05009854, US9796265, US9611079, US8757416, US8397927, US8353413, US8308005, US8231025, US7882977, US7712619, US7694835, US7228979, US7198170, US7114625, US7114625, US6988642, US6938787, US6878340, US6793082, US6367640, US2011155758, US2011100947, US2011088505, US2009277861, US2009188888, US2009173738, US2009114651, US2009057261, US2008173611, US2008164235, US2007272647, US2007181578, US2006265951, US2006159237, US2006124644, US2005145629, US2005045578, US2004251228, US2004079765, US2004011757, US2003155361, US2002073647, JP2006182357, EP2796382, EP1847469, DE102006017259, CN105705425, AU2004202619,

Abstract:

Source: US2004251228A A closure is provided with a thread configuration adapted for snap-on or screw-on application to a container neck finish. The closure is optionally provided with at least one member attached to the tamper-indicating ring which cooperates with the arcuate projection to assist in breaking said tamper indicating ring during removal of the closure from the container neck.

10) Family number: 49569626 (US2011220652A)

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Title: CONTAINERS FOR HOLDING MATERIALS**Priority:** US20100312658P 20100310 US20110044366 20110309 US20140458189 20140812
WO2011US27744 20110309**Family:**

Publication number	Publication date	Application number	Application date
AU2011224353 AA	20110915	AU20110224353	20110309
AU2011224353 BB	20160630	AU20110224353	20110309
CA2792092 AA	20110915	CA20112792092	20110309
CA2792092 C	20150623	CA20112792092	20110309
EP2544960 A1	20130116	EP20110754007	20110309
EP2544960 A4	20140521	EP20110754007	20110309
JP2013522128 T2	20130613	JP20120557215T	20110309
KR20130004500 A	20130110	KR20127026393	20110309
TW201144165 A	20111216	TW20110108000	20110309
TW201425150 A	20140701	TW20140111549	20110309
US2011220652 AA	20110915	US20110044366	20110309
US2015034588 AA	20150205	US20140458189	20140812
US8807377 BB	20140819	US20110044366	20110309
US9452857 BB	20160927	US20140458189	20140812
WO11112712 A1	20110915	WO2011US27744	20110309

Probable Assignee: ECOLOGIC BRANDS INC**Assignee(s):^(std):** ECOLOGIC BRANDS INC ; GRAHAM ROMEO ; WATTERS ROBERT ; SIROIS MICHAEL ; CORBETT JULIE ; ECO LOGIC BRANDS INC**Inventor(s):^(std):** CORBETT JULIE ; GRAHAM ROMEO ; SIROIS MICHAEL ; WATTERS ROBERT**Agent(s):** PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; Price Paul Anthony King; WILSON SONSINI GOODRICH AND ROSATI; KIM ELAINE 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 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 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**International class**
(IPC 8-9): [B65D1/02](#) [B65D23/02](#) [B65D23/10](#) [B65D25/02](#) [B65D25/14](#) [B65D25/18](#) [B65D25/54](#) [B65D35/56](#) [B65D77/06](#) [B65D83/00](#) (Advanced/Invention)**CPC:** [B65D1/0223](#) [B65D83/0055](#) [B65D77/06](#)**European class:** [B65D77/06](#) [B65D83/00B](#)**US class:** [1/1](#) [215/12.1](#) [215/379](#) [220/495.01](#) [220/495.03](#) [220/495.030P](#) [220/495.06](#) [220/495.08](#) [222/105](#) [222/105S](#) [222/183](#)[Classification Explorer](#)**Cited documents:** WO9902415, WO9746465, WO9419255 A1, WO9419242 A1, WO9315967 A1, WO9114630, WO11158000 A1, WO11157999 A3, WO11157999 A2, WO11141696 A1, WO09153558 A1, WO09133359 A1, WO09133355 A1, WO08103649 A3, WO08103649 A2, WO07126044 A1, WO07066090 A1, WO07060450 A2, WO05054068 A1, WO03033376 A1, WO0064595 A1, USRE32354 E, USD99757 S1, USD694635 S1, USD692769 S1, USD692768 S1, USD645755 S1, USD645754 S1, USD633808 S1, USD608211 S1, USD607743 S1, USD543852 S1, USD543466 S1, USD508206 S1, USD471111 S1, USD451401 S1, USD429465 S1, USD426469 S1, USD408742 S1, USD401506 S1, USD376761 S1, USD374179 S1, USD373535 S1, USD373533 S1, USD372429 S1, USD368660 S1, USD354914 S1, USD305980 S1, USD258117 S1, USD233829 S1, USD229485 S1, USD217439 S1, USD201213 S1, USD198407 S1,

USD198404 S1, USD192535 S1, US8991635 BB, US8807377 BB, US8430262 BB, US7076935 BB, US6874299 BB, US6857779 BB, US6826892 BB, US6794053 BB, US6783277 BB, US6619505 BA, US6510965 BA, US6464106 BA, US6454134 BA, US6431401 BA, US6398076 BA, US6375040 BA, US6290124 BB, US6237308 BA, US6223945 BA, US6196452 BA, US6142344 A, US5996427 A, US5909841 A, US5890616 A, US5860555 A, US5860530 A, US5735422 A, US5715992 A, US5477974 A, US5474212 A, US5429263 A, US5363966 A, US5288531 A, US5257865 A, US5203470 A, US4838429 A, US4837849 A, US4817830 A, US4709528 A, US4330066 A, US4282984 A, US3941301 A, US3610455 A, US3567104 A, US3450254 A, US3255932 A, US3119543 A, US3017049 A, US2954901 A, US2822965 A, US2562389 A, US2015314916, US2014252032, US2012145710, US2012024897, US2011220652, US2011036846 AA, US2009057381 AA, US2008267540 AA, US2008210584 AA, US2008083777 AA, US2008083695 AA, US2007211967 AA, US2006230588 AA, US2006111224 AA, US2006062497 AA, US2005167319 AA, US2005133578 AA, US1452039 A, TWM269271, NL2000414 C2, KR200379463, JP532272, JP5098689, JP5032272 A2, JP50089191 A2, JP2009196644, JP2002542992 T2, JP2002542992, JP2001287620 A2, JP2001287260 A2, JP11059726 A2, GB8185514, GB818551, GB8110983, GB811098, GB8076986, GB807698, GB8076978, GB807697, GB6111371, GB611137, GB5247895, GB524789, GB2432829 A1, GB16490 A, GB16490, GB1207421 A, FR1287487 A, EP2361847 A1, EP2338807 A1, EP1739025 A1, EP0785023 A1, EP0590424 A1, EP0302600 A1, EP0134142 A3, EP0134142 A2, DE4401719 A1, DE20220109 U,

DE202004010291 U1

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Forward Citations: WO13071221, WO13062942, USD761647, USD720227, US9629432, US9574307, US9573151, US9504308, US9463969, US9463482, US9452857, US9284106, US9126719, US9126717, US9090372, US8991635, US8857664, US8820579, US8701905, US8663419, US8430262, US2016229674, US2016037886, US2015308050, US2015298148, US2015284143, US2015158042, US2014331476, US2014291273, US2013341354, US2013075410, US2012168461, US2011036846, US2010155396, TWI560119, EP3074320,

Abstract:

Source: US2011220652A The invention provides for a container that may include a liquid-holding vessel and a skeleton shell supporting the liquid holding vessel. The liquid-holding vessel may comprise a flexible polymer or plastic material for preventing contact between a liquid stored in or dispensed from the container and the skeleton. The liquid-holding vessel and the closure may be formed from a minimal amount of polymer or plastic.

11) Family number: 30319679 (US2005150856A)

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Title: MOUTH TUBE PORTION OF SYNTHETIC RESIN BOTTLE BODY

Priority: JP20020234092 20020809 JP20020234093 20020809 JP20030054694 20030228
WO2003JP10190 20030811 JP20030054821 20030228

Family:	Publication number	Publication date	Application number	Application date
	<u>AU2003254923 AA</u>	20040225	AU20030254923	20030811
	<u>CN100333973 C</u>	20070829	CN20038001395	20030811
	<u>CN1578745 A</u>	20050209	CN20038001395	20030811
	<u>DE60331150 D1</u>	20100318	DE20036031150	20030811
	<u>EP1528000 A1</u>	20050504	EP20030784641	20030811
	<u>EP1528000 A4</u>	20080521	EP20030784641	20030811
	<u>EP1528000 B1</u>	20100127	EP20030784641	20030811
	<u>JP2004131174 A2</u>	20040430	JP20030054694	20030228
	<u>JP2004131175 A2</u>	20040430	JP20030054821	20030228
	<u>JP4415407 B2</u>	20100217	JP20030054821	20030228
	<u>JP4432021 B2</u>	20100317	JP20030054694	20030228
	<u>KR100985666 B1</u>	20101005	KR20047006511	20030811
	<u>KR20050026910 A</u>	20050316	KR20047006511	20030811
	<u>TW200405877 A</u>	20040416	TW20030122189	20030811
	<u>TWI268895 B</u>	20061221	TW20030122189	20030811
	<u>US2005150856 AA</u>	20050714	US20040514444	20041214
	<u>US7097056 BB</u>	20060829	US20040514444	20041214
	<u>WO04014744 A1</u>	20040219	WO2003JP10190	20030811

Probable Assignee: YOSHINO KOGYOSHO CO LTD

Assignee(s):^(std): IIZUKA TAKAO ; OZAWA TOMOYUKI ; TAKADA MAKOTO ; TANAKA TOSHIMASA ;
YOSHINO KOGYOSHO CO LTD ; YOSHINO YOGYOSHO CO LTD

Assignee(s): YOSHINO YOGYOSHO CO ; YOSHINO KOGYOSHO CO

Inventor(s):^(std): MAKOTO OZAWA TOMOYUKI TANAKA T ; OZAWA TOMOYUKI ; IIZUKA TAKAO ;
TAKADA MAKOTO ; TOSHIMASA TANAKA ; TOMOYUKI OZAWA ; TAKAO IIZUKA ;
MAKOTO TAKADA ; TANAKA TOSHIMASA

Inventor(s): TANAKA TOSHIMASA C O YOSHINO KOGYOSHO CO LTD ; TAKADA MAKOTO C O
YOSHINO KOGYOSHO CO LTD ; IIZUKA TAKAO C O YOSHINO KOGYOSHO CO LTD ;
OZAWA TOMOYUKI C O YOSHINO KOGYOSHO CO LTD ; OZAWA TOMOYUKI
TANAKA TOSHIMASA IIZUKA TAKAO ; OZAWA TOMOYUKI TANAKA TOSHIMASA
IIZUKA TAKAO TAKADA MAKOTO

Agent(s): 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 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

International class
(IPC 8-9): B29C49/48 B29C49/64 B29C49/00 B65D1/02 B65D1/46 B65D51/16
B65D79/00 (Advanced/Invention);
B65D1/02 B65D1/46 (Advanced/Non-invention);
B29C49/00 B65D1/02 B65D1/40 B65D51/16 B65D79/00 (Core/Invention)

International class
(IPC 1-7): B29C49/00 B29C49/48 B29C49/64 B65B7/28 B65D1/02 B65D1/46

CPC: Y10S215/902 Y10S220/913 B65D79/005 B29B2911/14446 B29K2995/0016
B29K2995/0041 B29K2995/0043 B29L2031/7158 B65D1/0246 B65D51/1688

B65D2205/00

European class: B65D1/02D1B B65D51/16E3 B65D79/00B L29K995/00D6 L29K995/00F4 L29K995/00F4B L29L31/7158 L65D205/00

US class: 215/42 215/44 215/44P 215/902 220/296 220/913

[Classification Explorer](#)

Cited documents: US6635325 BA, US6006930 A, US5673808 A, US5553727 A, US5462186 A, US5431291 A, US5261545 A, US4747502 A, US4620640 A, US4589559 A, US4007848 A, US1866770 A, JPS63192216 U, JPS63192216, JP9029824 A2, JP63192216 U1, JP63192216 A2, JP10157752 A2,

Forward Citations: WO16077352, WO14012904, WO11148879, WO10006355, WO08090347, USD560118, US9359099, US9238341, US9010574, US8806968, US8584876, US8551385, US7866496, US7735663, US2012132014, US2012111821, US2011174822, US2011114653, US2010314348, US2009008392, US2007158294, JP5946239, JP5325288, JP2012096817, JP2011526229, JP2010095269, JP2007069939, GB2445934, EP2687450, EA019851, CN104169177, CN104169177, AU2009270318, AU2008208745,

Abstract:

Source: US2005150856A The gas-venting groove or grooves are formed, while leaving a part of the thread ridge (3) up to a certain height, as the vertical degassing paths in the thread ridge carved on the outer surface of the round neck wall and the entire neck is whitened by the thermal crystallization. This thermal crystallization is conducted under the condition that the neck is prevented from undesired deformation caused by uneven resin flow state. Thus, the object of this invention is to provide a highly safe neck that can be used widely in the field of heat-resistant containers, pressure-tight containers, and heat-resistant and pressure-tight containers.

12) Family number: 30513317 (US2005284836A)

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Title: CONTAINER WITH SNAP-ON CLOSURE**Priority:** EP20020079347 20021021 EP20030808709 20030925 WO2003EP11063 20030925**Family:**

Publication number	Publication date	Application number	Application date
AT334069 E	20060815	AT20030808709T	20030925
AU2003276062 AA	20040504	AU20030276062	20030925
AU2003276062 BB	20070208	AU20030276062	20030925
BRPI0314500 A	20050726	BR2003PI14500	20030925
CA2501382 AA	20050406	CA20032501382	20030925
CN100404384 C	20080723	CN20038024346	20030925
CN1688492 A	20051026	CN20038024346	20030925
DE60307125 D1	20060907	DE20036007125	20030925
DE60307125 T2	20070215	DE20036007125T	20030925
DK1554189 T3	20061106	DK20030808709T	20030925
EP1554189 A1	20050720	EP20030808709	20030925
EP1554189 B1	20060726	EP20030808709	20030925
ES2268485 T3	20070316	ES20030808709T	20030925
IN00261MN2005 A	20070629	IN2005MN00261	20050411
IN214198 B	20080331	IN2005MN00261	20050411
JP2006503760 T2	20060202	JP20040544093T	20030925
MXPA05004129 A1	20050622	MX2005PA04129	20030925
NZ538995 A	20061027	NZ20030538995	20030925
PL200904 B1	20090227	PL20030375095	20030925
PL375095 A1	20051114	PL20030375095	20030925
RU2005115496 A	20060120	RU20050115496	20030925
RU2332338 C2	20080827	RU20050115496	20030925
US2005284836 AA	20051229	US20030531776	20030925
WO04035410 A1	20040429	WO2003EP11063	20030925
ZA200502608 A	20060628	ZA20050002608	20050331

Probable Assignee: UNILEVER BESTFOODS NORTH AMERICA DIVISION OF CONOPCO INC**Assignee(s):**^(std): UNILEVER NV ; UNILEVER PLC ; MAJOOR FRANSISCUS AUGUSTINUS ; MAJOOR FRANSISCUS A ; LEVER HINDUSTAN LTD ; JUNILEVER N V ; VERHAAR FRED**Assignee(s):** UNILIVER NV ; JUNILEVER NV ; HINDUSTAN UNILEVER LTD ; HINDUSTAN LEVER LIMITED ; HINDUSTAN LEVER LTD ; UNILEVER BESTFOODS NORTH AMERICA DIVISION OF... ; UNILEVER N V ; UNILEVER BESTFOODS NORTH AMERICA DIVISION OF CONOP ; UNILEVER BESTFOODS NORTH AMERICA DIVISION OF CONOPCO INC**Inventor(s):**^(std): AUGUSTINUS MAJOOR FRANSISCUS ; FRANSISCUS AUGUSTINUS MAJOOR ; FRED VERHAAR ; MAJOOR AUGUSTINUS ; FRANSISCUS AUGUSTINUS MAJOOR ; MAJOOR FRANSISCUS AUGUSTINUS ; VERHAAR FRED ; MAJOOR FRANSISCUS AUGUSTINUS ; MAJOOR FRANSISCUS A ; MAJOR FRANSISKUS AUGUSTINUS ; VERKHAR FRED**Inventor(s):** MAJOOR FRANSISCUS**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; RIDOUT AND MAYBEE LLP; UNILEVER INTELLECTUAL PROPERTY GROUP**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 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 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

International class B65D41/18 B65D41/28 B65D41/48 B65D41/58 (Advanced/Invention);
(IPC 8-9); B65D41/02 B65D41/32 (Core/Invention);
B65D (Subclass/Non-invention)

International class B65D41/00 B65D41/48
(IPC 1-7);

CPC: B65D41/485

European class: B65D41/48B

US class: 215/254 215/354 220/276

[Classification Explorer](#)

Cited documents: WO9961337 A2, US6260723 BA, US6041953 A, US5499736 A, US4919286 A, US4699301 A, US4693392 A, US4248030 A, US3544338 A, FR2820110 A1, FR2744100 A1, FR2294936 A1, EP1122168 A1,

Forward Citations: WO11039400, US9611079, US8622231, US8454872, US2014183200, US2011056951, US2010166923, RU2508230, RU2471623, CN102596741,

Abstract:

Source: US2005284836A The invention relates to a container suitable for aseptic packing of microbiologically sensitive food products comprising a blow-moulded container body (1) and neck (2) and a closure (3), characterised in that the closure (3) is a snap-on closure (3) wherein the snap-on closure (3) comprises a peripheral skirt (4) with a ridge (5), intended for engagement with the inner surface (6) of the neck (2) wherein the free outer diameter of the ridge (5) is slightly higher than the free inner diameter of the neck, characterised in that the snap-on closure (3) and the neck comprise means (7,8) for substantially fixing the ridge (5) in the axial direction of the neck, when the container is closed.

13) Family number: 33039194 (US2008006599A)

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Title: METHOD FOR PLACING A CAPSULE ONTO THE NECK OF A PLASTIC BOTTLE WHEN FILLING THE BOTTLE

Priority: CH20040001947 20041126 CH20050001415 20050830 WO2005CH00596 20051026

Family:	Publication number	Publication date	Application number	Application date
	<u>AT398081 E</u>	20080715	AT20050793963T	20051026
	<u>AU2005309300 AA</u>	20060601	AU20050309300	20051026
	<u>AU2005309300 BB</u>	20110512	AU20050309300	20051026
	<u>CA2582650 AA</u>	20070404	CA20052582650	20051026
	<u>CN101039841 A</u>	20070919	CN200580034875	20051026
	<u>CN101039841 B</u>	20101117	CN200580034875	20051026
	<u>DE502005004427 D1</u>	20080724	DE200550004427T	20051026
	<u>EP1824740 A1</u>	20070829	EP20050793963	20051026
	<u>EP1824740 B1</u>	20080611	EP20050793963	20051026
	<u>ES2308554 T3</u>	20081201	ES20050793963T	20051026
	<u>IN02264CN2007 A</u>	20070907	IN2007CN02264	20070525
	<u>IN259099 B</u>	20140228	IN2007CN02264	20070525
	<u>JP2008521708 T2</u>	20080626	JP20070541622T	20051026
	<u>JP4828546 B2</u>	20111130	JP20070541622T	20051026
	<u>KR20070083595 A</u>	20070824	KR20077006890	20051026
	<u>PT1824740 T</u>	20080924	PT20050793963T	20051026
	<u>RU2007123703 A</u>	20090110	RU20070123703	20051026
	<u>RU2384494 C2</u>	20100320	RU20070123703	20051026
	<u>US2008006599 AA</u>	20080110	US20050791440	20051026
	<u>US7886504 BB</u>	20110215	US20050791440	20051026
	<u>WO6056082 A1</u>	20060601	WO2005CH00596	20051026

Probable Assignee: MUHLEMANN IP GMBH**Assignee(s):^(std):** MUHLEMANN ROLF ; RM BETAJLIGUNGS AG ; RM BETEILIGUNGS AG ; MUEHLEMANN ROLF**Assignee(s):** MUHLEMANN IP GMBH ; MUEHLEMANN IP GMBH**Inventor(s):^(std):** MUEHLEMANN ROLF ; MUHLEMANN ROLF ; ROLF MUHLEMANN ; MJULEMANN ROLF**Inventor(s):** ROLF MUEHLEMANN ; MJULEMANN ROLF**Agent(s):** GRIFFITH HACK; MARKS AND CLERK; SCHNEIDER FELDMANN AG PATENT- UND MARKENANWAELTE; NAGAI HIROSHI; PAULEY PETERSEN AND ERICKSON**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 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

International class
 (IPC 8-9): B65B3/02 B65B61/00 B65B61/02 B65B61/20 B65B7/16 B65D51/28
B65D81/32 (Advanced/Invention);
B65B7/16 B65D51/28 (Advanced/Non-invention);
B65B3/00 B65B61/00 B65B7/16 B65D51/24 B65D81/32 (Core/Invention)

International class
 (IPC 1-7): B65B61/02

CPC: B65B7/164 B65B61/20 B65D51/2821

European class: B65B61/20 B65B7/16B1 B65D51/28B1A

US class: 215/40 215/40P 53/130.1 53/173 53/410 53/420 53/423 53/425 53/452 53/452S 53/474 53/488

[Classification Explorer](#)

Cited documents: WO9840289 A1, US7562771 BB, US7077291 BA, US6786330 BB, US6513650 BB, US6105760 A, US5992677 A, US5884759 A, US5799775 A, US5370222 A, US5224601 A, US3779372 A, US3305368 A, US2631521 A, US2004161504 AA, JP56137737 U, JP56137737 A2, JP4902760 U, JP49002760 U, JP49002760 A2, GB2364699 A1, GB2321231 A1, GB2210014 A1, EP0857662 A1,

Forward Citations: WO09111901, WO09111901, US8607534, JP2011514296,

Abstract:

Source: US2008006599A A container with a corresponding bottle neck having a capsule inside of which a substance is placed that is to be released into the bottle contents. This invention avoids having to sterilize the contents again after the container has been aseptically filled, even though the substance in the capsule often does not endure these temperatures. Thus, this invention provides a method with the following steps: a) aseptic filling of the plastic bottle; b) welding a first membrane onto the container neck; c) placing the substance, which is to be released into the plastic bottle, on the first membrane that is already welded on; d) covering the substance, which is to be released, by a second membrane and welding the second membrane to the first membrane. Lastly, a closure with a secured tamper-evident layer is placed over the capsule and onto the bottle neck.

14) Family number: 30898960 (US2008272085A)

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Title: BOTTLE STOPPER**Priority:** GB20040000712 20040114 GB20040015520 20040114 WO2005GB00103 20050113**Family:**

Publication number	Publication date	Application number	Application date
<u>EP1713699 A1</u>	20061025	EP20050701871	20050113
GB2004000712 A0	20040218	GB20040000712	20040114
GB200407398 A0	20040505	GB20040007398	20040114
GB200415520 A0	20040811	GB20040015520	20040114
<u>GB2397296 A1</u>	20040721	GB20040000712	20040114
<u>GB2397296 B2</u>	20041201	GB20040000712	20040114
<u>GB2397297 A1</u>	20040721	GB20040007398	20040114
<u>GB2397297 B2</u>	20041201	GB20040007398	20040114
<u>GB2401862 A1</u>	20041124	GB20040015520	20040114
<u>GB2401862 B2</u>	20050413	GB20040015520	20040114
<u>US2008272085 AA</u>	20081106	US20050597073	20050113
<u>WO05068315 A1</u>	20050728	WO2005GB00103	20050113

Probable Assignee: PORTA GIOVANNI M**Assignee(s):^(std):** LA PORTA GIOVANNI MARIA ; PORTA GIOVANNI M ; LAPORTA GIOVANNI M ; LAPORTA GIOVANNI MARIA**Assignee(s):** GIOVANNI MARIA LA PORTA ; GIOVANNI MARIA LAPORTA ; LA PORTA GIOVANNI M**Inventor(s):^(std):** LAPORTA GIOVANNI MARIA ; LA PORTA GIOVANNI MARIA**Inventor(s):** GIOVANNI MARIA LAPORTA ; GIOVANNI MARIA LA PORTA**Agent(s):** HAYES SOLOWAY PC**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**International class**
(IPC 8-9): B65D39/00 B65D39/12 B65D39/16 B65D51/24 B65D51/28 B65D81/26 C12H1/14 (Advanced/Invention);
B65D39/00 B65D51/24 B65D81/26 C12H1/00 (Core/Invention)**International class**
(IPC 1-7): B65D39/00 B65D39/12 B65D39/16 B65D51/24 B65D51/28**CPC:** B65D39/0052 B65D39/0064 B65D39/12 B65D39/16 B65D51/244 B65D51/28 B65D81/266 B65D2203/12 C12H1/14**European class:** B65D39/00G B65D39/00G2 B65D39/12 B65D39/16 B65D51/24E B65D51/28 B65D81/26F C12H1/14 L65D203/12**US class:** 215/228 215/230 215/296 215/358 215/364[Classification Explorer](#)**Cited documents:** US5617812 A, US4838442 A, US4756436 A, US4526752 A, US4421235 A, US4287995 A, GB650296 A, GB1241985 A, EP1300342 A1, EP0269066 A1, DE10161185 C1,**Forward Citations:** WO16010544, WO14102691, WO13068622, WO13028357, WO13028357, WO12004446, WO11014790, WO07059902, WO07059902, USD683580, USD677118, USD675059, USD640561, US9314121, US9027774, US8714383, US8640746, US2016207752, US2015217912, US2014312000, US2013043215, US2012241453, US2011126939, US2010012612, US2008290062, JP2011240991, GB2474294, FR3000476, ES2412529, ES2374346, EP3102500, EP2458370, EP2308770,

Abstract:

Source: US2008272085A In one aspect the invention provides a bottle stopper for a wine bottle or the like, which bottle stopper comprises a body having a sealing member which sits within the neck (1) of the bottle in use and which extends radially outwardly from the body of the stopper to seal the bottle neck, the stopper further having a passageway extending upwardly therethrough to communicate with the interior of the bottle and which incorporates or communicates with a chamber within the stopper in which is housed an oxygen-scavenging medium. In a further aspect the invention provides a bottle stopper for a wine bottle or the like, which bottle stopper comprises a body having a sealing member (30, 31) which sits within the neck of the bottle in use and which extends radially outwardly from the body of the stopper to seal the bottle neck, the bottle stopper further having a mechanism for compressing the sealing member substantially axially of the stopper to expand the sealing member laterally/substantially radially of the stopper into sealing contact with the neck of the bottle.

0) US4257525A – BOTTLE WITH ATTACHED HANDLE

15) Family number: 5167936 (US4257525A)

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Title: Bottle with attached handle

Priority: US19780877603 19780214 US19790028886 19790410 US19810237079 19810223
US19790040864 19790521 US19790040865 19790521 US19810237081 19810223
US19830458369 19830117 US19810246045 19810320 US19840643653 19840823

Family:	Publication number	Publication date	Application number	Application date
	US4257525 A	19810324	US19790040864	19790521
	US4273246 A	19810616	US19790040865	19790521
	US4280859 A	19810728	US19790028886	19790410
	US4368826 A	19830118	US19810237079	19810223
	US4368827 A	19830118	US19810246045	19810320
	US4372454 A	19830208	US19810237081	19810223
	US4629598 A	19861216	US19840643653	19840823

Probable Assignee: ZAPATA INNOVATIVE CLOSURES INC

Assignee(s):^(std): THOMPSON MORTIMER S ; TRI TECH SYST

Assignee(s): TRI TECH SYSTEMS INT ; SCHEICH RICHARD A ; S D TECHNOLOGIES INC ; PLASTIC TECHNOLOGIES INC ; YODER J SCOTT ; ZAPATA INNOVATIVE CLOSURES INC ; TRI TECH SYSTEMS INTERNATIONAL INC ; TRI TECH SYSTEMS INT INC ; S D TECHNOLOGIES INC FL CORP ; GRAHAM PACKAGING CO ; GRAHAM PACKAGING CO LP ; GRAHAM PACKAGING COMAPNY LP ; GRAHAM PACKAGING CORP ; INNOVATIVE CLOSURES INC ; MID AMERICAN BANK AND TRUST CO ; MID AMERICAN NATIONAL BANK AND TRUST COMAPNY

Inventor(s):^(std): THOMPSON MORTIMER S

International class
^(IPC 8-9): [B29C49/54 B65D23/10](#) (Advanced/Invention) ;
[B29C49/06 B29C49/42](#) (Advanced/Non-invention) ;
[B29C49/48 B65D23/10](#) (Core/Invention) ;
[B29C49/06 B29C49/42](#) (Core/Non-invention)

International class
^(IPC 1-7): [B29C17/07 B29C49/06 B29C49/12 B32B1/10 B65D23/10 B65D25/28](#)

CPC: [B65D23/102 B29C49/54 B29C49/06 B29C49/4236 B29L2031/463 B65D23/10 B65D23/106 Y10T29/4987 Y10T29/49876](#)

European class: [B29C49/54 B65D23/10 B65D23/10B B65D23/10D2 L29C49/06 L29C49/42C L29L31/46B](#)

US class: [156/245 156/272.2 156/275.5 156/73.5 156/73.6 215/100A 215/383 215/396 215/398 264/445 264/454 264/509 264/513 264/515 264/523 264/532 264/535 264/537 264/540 264/68 29/450 29/453 294/27.1 294/33 425/525](#)

[Classification Explorer](#)

Cited documents: US601988 A, US4280859 A, US4273246 A, US4164298 A, US398234 A, US3900120 A, US3807594 A, US3708082 A, US3524241 A, US3456864 A, US3404795 A, US3366262 A, US3307752 A, US3250434 A, US3163544 A, US3140329 A, US3115682 A, US3100576 A, US2930502 A, US2705095 A, US2571389 A, US2268768 A, US2008316 A, GB979873 A, GB818618 A, GB364936 A, FR1192475 A, FR1137095 A, DE1912249 A1, AU154343 A1,

Forward Citations: WO9948761, WO9930894, WO9930883, WO9911530, WO9805566, WO9744258, WO9743108, WO9633063, WO9630212, WO9630189, WO9627529, WO9515250, WO9221577, WO9100223, WO8503273, WO8302101, WO8202369, WO13093610, WO12158316, WO12042025, WO12009156, WO11116095, WO11116095, WO06065791, WO05085078, WO05047128, WO04069675, WO04048060, WO04048060, WO04033319, WO04033319, WO03018413, WO02072441, WO0119692, WO0042878, USD762119, USD746142, USD649834, USD649400, USD643292, USD595580, USD554426, USD510871, USD508651, USD462879, USD452798, USD452444, USD451033, USD451032, USD449993, USD439844, USD439521, USD438803, USD433891, USD428338, USD425418, USD423350, USD421386, US9352873, US9248603, US9144933, US9114911, US8815354, US8771583, US8550272, US8524143,

US8511492, US8430267, US8404755, US8282876, US8202018, US8158227, US8080191, US8047387, US7871683, US7726499, US7708158, US7681749, US7648038, US7600655, US7487883, US7431169, US7357267, US7228982, US7226560, US7143904, US7103940, US7028857, US7000512, US6998091, US6926163, US6910596, US6824001, US6789689, US6736290, US6730253, US6601283, US6521158, US6444158, US6364385, US6352235, US6338415, US6237791, US6227393, US6216923, US6179143, US6126886, US6103035, US6068901, US6062408, US6042164, US5988418, US5957513, US5931324, US5918754, US5902657, US5891380, US5887774, US5879115, US5862929, US5861072, US5836469, US5819966, US5816631, US5795534, US5769256, US5704507, US5704506, US5697744, US5637167, US5622579, US5575969, US5560506, US5540579, US5533881, US5508076, US5469612, US5413232, US5413231, US5409749, US5325982, US5322184, US5297686, US5230433, US5154306, US5122791, US5104472, US5100009, US5097638, US5092476, US5089208, US5057266, US5049224, US5038454, US4979339, US4964522, US4952133, US4946053, US4936614, US4925617, US4915241, US4909403, US4896415, US4892207, US4886947, US4872304, US4856667, US4834269, US4832216, US4823967, US4821372, US4811857, US4773549, US4754656, US4727997, US4709824, US4708255, US4676385, US4660876, US4629598, US4569816, US4552396, US4513875, US4486043, US4439393, US4395378, US4368826, US4367821, US4357296, US2017065111, US2014110369, US2014091500, US2013193020, US2013048654, US2012312813, US2012193321, US2012187008, US2012012595, US2011226724, US2011186540, US2011132863, US2011064899, US2010307954, US2010200531, US2010193119, US2010189934, US2010044152, US2009264545, US2008245763, US2008099424, US2008093777, US2008093333, US2008083764, US2008050547, US2007262047, US2007257005, US2007246866, US2007235477, US2007221608, US2007221607, US2007095785, US2007023978, US2007014898, US2007012651, US2006228504, US2006175282, US2006141182, US2006124580, US2006124579, US2006108311, US2006073288, US2005236356, US2005218109, US2005181159, US2005163882, US2005127026, US2005082251, US2005011050, US2004238475, US2004108627, US2004099109, US2004069736, US2004065636, US2003173328, US2003020193, TR27494, NL2005640, JP63294352, JP2191156, JP2009214884, GB2268922, GB2255546, GB2251844, GB2251844, GB2174669, FR2917328, FR2874193, ES2088772, EP3090954, EP2524876, EP2011627, EP1510319, EP1279477, EP1238916, EP1176100, EP1083129, EP0929454, EP0856472, EP0835736, EP0822891, EP0822891, EP0775639, EP0670269, EP0609644, EP0609575, EP0498123, EP0482203, EP0406625, EP0232207, EA213, EA000213, DE3921258, DE3917609, DE10141640, AU721739, AU721062, AU720887, AU654913, AU2005257193,

Abstract:

Source: US4257525A A new and unique bottle and attachable handle and method of forming and assembling the same. The bottle includes a recess in its sidewall which provides space for finger placement and means for attaching the handle substantially therewithin. The handle is attached to the sidewall of the bottle at the upper and lower portions of the recess and essentially lies within the breadth of the bottle and preferably substantially within the recess. The handle and bottle can be attached by interlocking, welding, bonding, or adhesive means. For such attachment the handle and bottle have coating surfaces which provide vertical and horizontal bearing surfaces therebetween for lifting and carrying the bottle and for pouring therefrom.

0) US2008089992A – FRUIT FLAVORING IN THE IMAGE OF A FRUIT PORTION...

16) Family number: 41731785 (US2008089992A)

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Title: FRUIT FLAVORING IN THE IMAGE OF A FRUIT PORTION STORED WITH A VESSEL FOR FLAVORING A FLUID

Priority: US20060549979 20061017 US20070446202 20071017 WO2007US81704 20071017
US20140333482 20140716 US20090446202 20090417 US20170601998 20170522

Family:	Publication number	Publication date	Application number	Application date
	US2008089992 AA	20080417	US20060549979	20061017
	US2010313767 AA	20101216	US20070446202	20071017
	US2014370157 AA	20141218	US20140333482	20140716
	US2017251702 AA	20170907	US20170601998	20170522
	US7798056 BB	20100921	US20060549979	20061017
	US8783166 BB	20140722	US20070446202	20071017
	US9655380 BB	20170523	US20140333482	20140716
	WO08049041 A2	20080424	WO2007US81704	20071017
	WO08049041 A3	20081113	WO2007US81704	20071017

Probable Assignee: KRAMER JAMES F

Assignee(s):^(std): KRAMER JAMES F

Inventor(s):^(std): KRAMER JAMES F

Agent(s): JAMES F KRAMER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): [A23L1/185](#) [A23L2/38](#) [A23L2/56](#) [A23L7/20](#) [A47G19/14](#) [A47J31/00](#) [B65D23/04](#) [B65D23/12](#) [B65D23/14](#) [B65D25/08](#) [B65D25/38](#) [B65D51/28](#) [B65D81/32](#) [B65D85/808](#) [B67D5/00](#) [B67D99/00](#) (Advanced/Invention);
[A23L1/185](#) [A23L2/52](#) [A47J31/00](#) [B65D25/04](#) [B65D25/38](#) [B67D99/00](#) (Core/Invention)

CPC: [A23L2/38](#) [B65D23/14](#) [B65D51/28](#) [B65D2517/0056](#) [B65D2571/00827](#) [B65D2571/00851](#) [B65D2571/00925](#) [Y10S215/08](#) [B65D23/04](#) [B65D23/12](#) [A23L2/56](#) [B65D51/2835](#) [B65D85/808](#)

European class: [A23L2/38](#) [A23L2/56](#) [B65D23/14](#) [B65D51/28](#) [L65D517/00Y6Z](#) [L65D571/00Y8C](#) [L65D571/00Y9C](#) [L65D571/00Y9M](#)

US class: [206/0.5](#) [206/219](#) [206/219S](#) [206/221](#) [206/222](#) [206/5](#) [215/DIG.8](#) [222/187](#) [222/575](#) [239/24](#) [239/44](#) [239/53](#) [426/115](#) [426/115S](#) [426/120](#) [426/120S](#) [426/519](#) [426/590](#) [426/86](#) [99/275](#) [99/323](#) [99/323P](#)

[Classification Explorer](#)

Cited documents: US7051648 BB, US6951275 BB, US6886686 BB, US6854595 BB, US6844015 BB, US6644471 BA, US6541055 BA, US6517878 BB, US6390292 BB, US6024012 A, US5984141 A, US5924151 A, US5288159 A, US5246142 A, US4399158 A, US4339550 A, US4304869 A, US3881634 A, US3861284 A, US3710795 A, US3620759 A, US3118427 A, US2546848 A, US2014220181 AA, US2004178086 AA, US2001042446 AA,

Forward Citations: WO16029035, WO11028243, US9359183, US9155331, US8469186, US8342839, US2014377415, US2014335234, US2014079867, US2013189412, US2013087472, US2011053104, US2010279581,

Abstract:

Source: US2008089992A An assembly and method are provided for storing and dispensing a soluble substance, such as a flavoring, into a liquid. A useful application of the subject invention includes the case where lime-flavored liquid is contained in a foam artificial lime stored in the neck of a beer bottle, attached to a beer

bottle or can, or attached to the 6 –pack or 12 –pack carton. The artificial lime may be retrieved from the neck or a protective covering and acted upon so it diffuses the lime–flavored liquid into the beer when it is inserted into the beer bottle. Alternately, juice from the artificial lime may be squeezed into the beer, or the artificial lime may be simply retrieved and discarded. Rather than needing to buy a natural lime, cut it up and push a wedge into a beer bottle, an artificial lime, or a packaged natural lime, may be stored directly in or with the beer bottle and placed in functional contact with the beer at time of consumption.

17) Family number: 54182907 (US2014326727A)

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Title: LIQUID FILLED BOTTLE HAVING A COVER MEMBER WITH A LABEL FORMING EXTENSION

Priority: EP20120812208 20121217 WO2011IB03241 20111219 WO2012EP75859 20121217

Family:	Publication number	Publication date	Application number	Application date
	AR089330 AA	20140813	AR2012P104823	20121219
	CN104136340 A	20141105	CN201280064161	20121217
	CN104136340 B	20160316	CN201280064161	20121217
	DE602012006775 D1	20150528	DE201260006775T	20121217
	EP2794414 A1	20141029	EP20120812208	20121217
	EP2794414 B1	20150415	EP20120812208	20121217
	ES2542129 T3	20150731	ES20120812208T	20121217
	JP2015509887 T2	20150402	JP20140547906T	20121217
	JP6131266 B2	20170517	JP20140547906T	20121217
	MX2014007396 A1	20140821	MX20140007396	20121217
	MX343991 B	20161130	MX20140007396	20121217
	RU2014129855 A	20160210	RU20140129855	20121217
	RU2608709 C2	20170123	RU20140129855	20121217
	RU2608709 C9	20170417	RU20140129855	20121217
	TR201508634 T4	20150821	TR20150008634T	20121217
	US2014326727 AA	20141106	US20120364720	20121217
	US9114899 BB	20150825	US20120364720	20121217
	WO13092529 A1	20130627	WO2012EP75859	20121217
	WO13093539 A1	20130627	WO2011IB03241	20111219

Probable Assignee: GERVAIS DANONE SA

Assignee(s):^(std): DES EAUX MINERALES D EVIAN SAEME SA ; DEZ O MINERAL D EVIAN SAEME SA ; JOUIN FREDERIC ; GEHRINGER CHRISTINE ; OSTERTAG JENNIFER ; GERVAIS DANONE SA ; EAUX MINERALES D EVIAN SAEME DES SA ; EAUX MINERALES DEVIAN SAEME DES SA ; EVIAN SAEME SA

Assignee(s): GERVAIS DANONE COMP ; DES EAUX MINERALES DEVIAN SAEME SA ; DES EAUX MINERALES D'EVIAN SAEME SA

Inventor(s):^(std): GEHRINGER CHRISTINE ; GERINGER KRISTIN ; JOUIN FREDERIC ; OSTERTAG DZHENNIFER ; OSTERTAG JENNIFER ; ZHUAN FREDERIK

Inventor(s): FREDERIC JOUIN

Agent(s): CABINET PLASSERAUD; DE ELZABURU ALBERTO; UGUR GUERSAD YALCINER; YOUNG AND THOMPSON; LE FALHER GUY ET AL

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

International class
(IPC 8-9): [B65D1/02](#) [B65D23/00](#) [B65D23/14](#) [B65D51/20](#) [B65D77/20](#) [G09F1/08](#) [G09F23/00](#) [G09F23/06](#) [G09F3/00](#) [G09F3/04](#) (Advanced/Invention)

CPC: [B65D1/0238](#) [B65D1/0253](#) [G09F23/00](#) [G09F3/04](#) [B65D51/20](#) [B65D77/2032](#) [G09F23/06](#)

US class: [1/1](#) [206/459.5](#) [220/270](#)

[Classification Explorer](#)

Cited documents: US8225954 BA, US6460720 BA, US5022526 A, US4886206 A, US2011152821 AA, US2010006587 AA, US2009212060 AA, US2008073308 AA, US2008073308, US2005006333 AA, US2003230547 AA, JP56013368 A2, JP56013368, JP2006330715 A2, JP2006330715, JP2005107012 A2, JP2005107012, JP2004244070 A2, JP2004244070, JP2004099128 A2, JP2004099128, JP2003191319 A2, JP2003191319, JP2000007011 A2, JP2000007011, JP11153957, JP11153957, GB222708 A, GB190222708 A, FR2101015 A1, FR2, EP2327635 A1, EP0761560 A1, EP0, DE202010009034 U1
DE202008010071 U1
DE20 U, CN2913218 Y, CN201027006 Y,

Forward Citations: WO17064532, WO14170708, WO14170215, US2016163236,

Abstract:

Source: US2014326727A The plastic bottle (1) is filled with liquid and provided with a neck (4) that defines a narrow opening (5) with an inner diameter typically inferior to 40 mm. A flexible sheet-like cover member (C), having a lower closing element (C1) and an upper label element (C2), is provided to seal the opening. A first portion (10) that defines a first surface of the label element is directly fastened to a central portion (6) of the closing element in contact with the upper face of the neck and reinforces this central portion. A second portion (L), which is entirely offset relative to the upper face of the neck, defines a second surface of the label element. The ratio between the second surface (S2) and the first surface (S1) is at least 1:2, and preferably at least 1:1. The second portion (L) extends above the shoulder 3 of the bottle.

18) Family number: 28325810 (US2002162818A)

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Title: BEVERAGE CONTAINER CLOSURE
Priority: US20010288940P 20010504 US20020138088 20020503 WO2002US13953 20020503
Family:

Publication number	Publication date	Application number	Application date
CA2446220 AA	20031103	CA20022446220	20020503
CA2446220 C	20071113	CA20022446220	20020503
US2002162818 AA	20021107	US20020138088	20020503
US7588155 BB	20090915	US20020138088	20020503
WO02090192 A2	20021114	WO2002US13953	20020503
WO02090192 A3	20030220	WO2002US13953	20020503
ZA200309218 A	20040917	ZA20030009218	20031126

Probable Assignee: BERRY PLASTICS CORP

Assignee(s):^(std): BERRY PLASTICS CORP ; WILLIAMS CHARLES L

Assignee(s): BANK OF AMERICA NA ; BANK OF AMERICA NA ABL COLLATERAL AGENT AS ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BERRY STERLING CORP ; CAPTIVE PLASTICS INC ; GRAFCO IND ; LANDIS PLASTICS LLC ; SETCO LLC ; TUBED PRODUCTS LLC ; WELLS FARGO BANK NA ; CREDIT SUISSE ADMINISTRATIVE AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH TERM COLLATERA ; GRAFCO IND PARTNERSHIP LTD ; FLEET NATIONAL BANK COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH TERM COLLAT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH TERM COLLATERAL AGENT AS ; CREDIT SUISSE AS ADMINISTRATIVE AGENT ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AS TERM COLLAT ; FLEET NATIONAL BANK AS COLLATERAL AGENT ; WELLS FARGO BANK NA COLLATERAL AGENT AS

Inventor(s):^(std): WILLIAMS CHARLES L ; CHARLES L WILLIAMS

Agent(s): SMART AND BIGGAR; BARNES AND THORNBURG LLP

Designated states: AT BE CA CH CY DE DK ES FI FR GB GR IE IT LU MC MX NL NO PT SE TR ZA

International class [B65D41/04](#) [B65D41/34](#) [B65D53/00](#) (Advanced/Invention)
 (IPC 8-9):

International class [B65D53/00](#)
 (IPC 1-7):

CPC: [Y10S215/01](#) [B65D41/045](#) [B65D41/3447](#)

European class: [B65D41/04D2](#) [B65D41/34D1](#)

US class: [215/252](#) [215/343](#) [215/349](#) [215/DIG.001](#) [215/DIG.1](#) [215/DIG.1S](#)

[Classification Explorer](#)

Cited documents: US5979690 A, US5769255 A, US5762218 A, US5553727 A, US5415306 A, US5216224 A, US5213224 A, US5042680 A, US4878589 A, US4744481 A, US4741447 A, US4667839 A, US4658977 A, US4658976 A, US4635806 A, US4625875 A, US4531649 A, US4488676 A, US4463863 A, US4429802 A, US4415096 A, US4379512 A, US4360114 A, US3628704 A, US3215297 A, US3195754 A, US3095991 A, US3074579 A, US3051342 A, US3033407 A, US2901139 A, US2768762 A, US2752059 A, GB2235186 A1,

Forward Citations: WO17108223, USD621707, USD621706, USD621705, US9738409, US9718587, US9522759, US9403310, US8794461, US8650839, US8460771, US8328038, US8251236, US8100277, US7867425, US7798359, US7780024, US7775386, US7766178, US7644902, US7431168, US7168581, US7007817, US2015118366, US2015008223, US2011204016, US2008302753, US2008257850, US2006163191, US2006032831, US2006021959, US2004188375, US2004055992, EP2799362, CN104053610,

Abstract:

Source: US2002162818A A beverage container closure includes a cap and a monolithic cap liner having

concentric first and second seal rings coupled to the cap. The concentric first and second seal rings are adapted to mate with an annular rim provided on the neck of a beverage container and formed to include an open mouth to allow liquids to flow through the neck into and out of the beverage container. At least one of the seal rings is splayed relative to the annular rim during installation of the cap on the container neck to form a seal between the cap and the beverage container.

19) Family number: 3204114 (US4873100A)

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Title: Bistable expandable bottle**Priority:** CA19880563986 19880413 US19870038794 19870415

Family:	Publication number	Publication date	Application number	Application date
	<u>CA1314007 A1</u>	19930302	CA19880563986	19880413
	<u>EP0287170 A2</u>	19881019	EP19880200692	19880412
	<u>EP0287170 A3</u>	19900404	EP19880200692	19880412
	<u>JP1058660 A2</u>	19890306	JP19880093320	19880415
	<u>JP64058660 A2</u>	19890306	JP19880093320	19880415
	<u>US4873100 A</u>	19891010	US19870038794	19870415

Probable Assignee: PROCTER AND GAMBLE**Assignee(s):^(std):** PROCTER AND GAMBLE ; DIRKSING ROBERT S**Assignee(s):** GIRARDOT RICHARD M ; MERZ THEODORE P ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE COMPANY**Inventor(s):^(std):** DIRKSING ROBERT S ; GIRARDOT RICHARD M ; MERZ THEODORE P ; RICHIIYAADO MAIKERU JIRAADOTSUT ; ROBAATO SUTANRII DAAKUSHINGU ; SHIODOA POORU MERUTSU**Inventor(s):** RICHIIYAADO MAIKERU JIRAADOTSUTO**Agent(s):** KIRBY EADES GALE BAKER**Designated states:** AT BE CH DE ES FR GB GR IT LI LU NL SE**International class**
(IPC 8-9): B29C49/48 B65D1/02 B65D21/08 B65D51/16 (Advanced/Invention) ;
B29C49/48 B65D1/02 B65D21/00 B65D51/16 (Core/Invention)**International class**
(IPC 1-7): B65D1/02 B65D1/40 B65D1/44 B65D21/08**CPC:** B29C49/48 B29L2031/703 B65D1/0292 B65D51/1644**European class:** B29C49/48 B65D1/02D3 B65D51/16D2 L29L31/703**US class:** 215/311 215/382 215/398 220/202 220/752 220/772 426/111 426/112 426/115[Classification Explorer](#)**Cited documents:** USRE32379 E, US4775564 A, US4773458 A, US4645078 A, US4526296 A, US4492313 A, US4456134 A, US4394906 A, US4377191 A, US4147279 A, US4068778 A, US4044836 A, US3939888 A, US3939887 A, US3938514 A, US3929165 A, US3926341 A, US3920226 A, US3918582 A, US3908704 A, US3587937 A, US3586084 A, US3559692 A, US3557788 A, US3506163 A, US3474844 A, US3473524 A, US3441172 A, US3434589 A, US3409224 A, US3390821 A, US3387732 A, US3384258 A, US3340869 A, US3301293 A, US3261458 A, US3220544 A, US3201111 A, US3172577 A, US3163544 A, US3143429 A, US3083877 A, US3012695 A, US2899110 A, US2886084 A, US2880902 A, US2863305 A, US2791367 A, US2685316 A, US2681284 A, US2673806 A, US2667422 A, US1988091 A, US1885757 A, US1668895 A, US1627851 A, US132875 A, NO87739 A, IT706406 A, GB2138525 A1, GB2109247 A1, GB2080756 A1, GB1117552 A, FR2467146 A1, FR1288900 A, FR1208104 A, DE2042593 A1, DE2038069 A1, DE1296900 B, CH411684 A, CA688612 A, AU293596 A1,**Forward Citations:** WO9426633, WO9323301, WO9204236, WO15196202, WO15162284, WO15031902, WO11064523, WO10069040, WO09027942, WO09027942, USD779886, USD651476, US9723942, US9427136, US9423033, US9370198, US9296508, US8871092, US8397962, US8348509, US8231029, US8061548, US7913638, US7832582, US7819293, US7744280, US7678271, US7654402, US7357267, US7059450, US6695163, US6669040, US6662964, US6589578, US6581795, US6484897, US6334543, US6180149, US6105815, US5711445, US5676268, US5642826, US5590799, US5573129, US5549213, US5503284, US5447110, US5439128, US5417337, US5392941, US5384138, US5348173, US5226551, US5201438, US5114011, US2016244249, US2016242456, US2016242455, US2015091257,

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Abstract:

Source: US4873100A A bistable expandable bottle preferably including a concentrated material to be diluted, said bottle being comprised of convex shaped bellows when in its expanded condition, said bottle also including opposed handle means for facilitating the extension of the bottle from its collapsed to its expanded condition. In a preferred embodiment a self-venting closure is also employed to seal the orifice in said bottle to permit extension of the bottle from its collapsed to its expanded condition without loosening or removing of the closure.

20) Family number: 31303730 (US4234443A)

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Title: Composition and a method useful for making a fountain solution for lithographic printing operations

Priority: AU19800060337 19800711 AU19830013155 19830405 AU19840035808 19841122
 CA19830427106 19830429 CA19830427109 19830429 CA19830427108 19830429
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Family:

Publication number	Publication date	Application number	Application date
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AT28438 E	19870815	AT19830105529T	19830606
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<u>US4664292 A</u>	19870512	US19850799201	19851118

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Agent(s): MADDERNS; RIDOUT AND MAYBEE LLP

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

International class
(IPC 8-9): A47J31/40 B41N3/08 B65D47/04 B65D47/20 B65D47/24 B65D85/72 B65D88/74 B67D1/00 B67D1/04 B67D1/08 B67D1/12 B67D1/14 B67D3/00 B67D7/74 F16K11/08 F16K31/44 (Advanced/Invention);
A47J31/40 B41N3/00 B65D47/04 B65D85/72 B65D88/00 B67D1/00 F16K11/02 (Core/Invention)

International class
(IPC 1-7): A23L2/00 A23L2/38 A47J31/40 A47J31/44 B01F3/04 B41L25/00 B41M1/06 B65D47/04 B65D47/20 B65D47/24 B65D85/72 B65D88/74 B67B7/28 B67D1/00 B67D1/02 B67D1/04 B67D1/08 B67D1/12 B67D1/14 B67D5/01 B67D5/04 B67D5/08 B67D5/56 C11D1/44

C11D3/075 C11D3/08 C11D3/43 C11D7/16 C11D9/36 F16K1/36 F16K11/08 F16K15/02 F16K15/18 F16K19/00 F16K31/44

CPC: B67D1/04 B67D1/1405 B67D1/1444 B41N3/08 Y10S261/07 B67D1/1277 B67D1/0057 B67D1/0831 B67D1/0072 B67D1/0021 B67D1/0052 B67D1/007 B67D1/0079 B67D1/0801 B67D2001/0087 B67D2001/0814 B67D2001/0815 B67D2210/00028 B67D2210/00034 B67D2210/00039 B67D2210/00052 B67D2210/0006 Y10T137/314 Y10T137/87957

European class: B41N3/08 B67D1/00F4 B67D1/00H2C2 B67D1/00H4 B67D1/00H4H2 B67D1/00H4H4B B67D1/00H6B B67D1/04 B67D1/08B2 B67D1/12M B67D1/14B B67D1/14B4B L67D1/00H8M L67D1/08A L67D1/08A32B L67D1/08A32B2 L67D210/00D L67D210/00D2B L67D210/00D2D L67D210/00D4B2 L67D210/00D4D

US class: 101/424 101/451 101/463.1 101/466 106/2 137/212 137/614.04 141/29 215/100A 215/259 215/393 215/398 222/1 222/129.1 222/153 222/185 222/185.1 222/399 222/400.7 222/478 222/507 222/514 222/520 239/418 252/135 252/139 252/173 252/174.15 252/174.16 252/174.21 252/174.23 252/527 252/529 252/DIG.14 261/122 261/122.1 261/DIG.7 430/309 510/172 510/421 510/423 510/436 510/466 99/323.1

Classification Explorer

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Abstract:

Source: US4234443A This invention is directed to a composition useful for making a fountain solution for lithographic printing operations which comprises trisodium phosphate, sodium metasilicate, tetrapotassium pyrophosphate, a nonionic detergent which is a condensation product of ethylene oxide with a dialkylphenol, an alkylamine or an aliphatic alcohol, and dialkylpolysiloxane. The invention is further directed to a method for making such a fountain solution which comprises combining any of the compositions of the invention with water.

21) Family number: 53957311 (US2014308405A)

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Title: OXYGEN-ABSORBING RESIN COMPOSITION AND OXYGEN-ABSORBING MOLDED ARTICLE USING SAME AND MULTILAYER BODY, CONTAINER, INJECTION-MOLDED ARTICLE AND MEDICAL CONTAINER USING THESE

Priority: EP20120852006 20121122 JP20110257821 20111125 JP20120223276 20121005
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Family:

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JP5966852 B2	20160810	JP20120235092	20121024
JP6015322 B2	20161026	JP20120223276	20121005
JP6015328 B2	20161026	JP20120224914	20121010
JP6015334 B2	20161026	JP20120229009	20121016
JP6015343 B2	20161026	JP20120235248	20121025
JP6015344 B2	20161026	JP20120235409	20121025
JP6016098 B2	20161026	JP20120235091	20121024
KR20140103923 A	20140827	KR20147013872	20121122
PT2784120 T	20170814	PT20120852006T	20121122
TR201711547 T4	20170921	TR20170011547T	20121122
TW201336925 A	20130916	TW20120143982	20121123
TWI568789 B	20170201	TW20120143982	20121123
US2014308405 AA	20141016	US20120360078	20121122
WO13077436 A1	20130530	WO2012JP80395	20121122

Probable Assignee: MITSUBISHI GAS CHEMICAL CO INC

Assignee(s):^(std): MITSUBISHI GAS CHEMICAL CO ; MITSUBISHI GAS CHEMICAL CO INC

Assignee(s): MITSUBISHI GAS CHEMICAL COMPANY INC

Inventor(s):^(std): ARAKAWA SHOTA ; FUMIHIRO ITO ; IKEDA SHINICHI ; ITO FUMIHIRO ; IWAMOTO SHINPEI ; KASHIBA TAKASHI ; KENICHIRO USUDA ; OGAWA SHUN ; OGAWA TAKASHI ; OKADA SATOSHI ; SATOSHI OKADA ; SHINICHI IKEDA ; SHINPEI IWAMOTO ; SHOTA ARAKAWA ; SHUN OGAWA ; TAKAGI TOSHIYA ; TAKASHI KASHIBA ; TOSHIYA TAKAGI ; USUDA KENICHIRO

Agent(s): HOFFMANN EITLE; FUSTER GUSTAVO NICOLAS; INABA YOSHIYUKI; UGUR GUERSAD YALCINER; INABA YOSHIYUKI ET AL

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

International class
(IPC 8-9): [A23B7/00](#) [A23F3/16](#) [A23L1/22](#) [A23L27/00](#) [A23L3/00](#) [A23L3/3436](#) [A61J1/00](#) [A61J1/05](#) [A61J1/10](#) [A61M5/28](#) [B01J20/26](#) [B01J20/28](#) [B01J20/30](#) [B29C45/00](#) [B32B1/02](#) [B32B27/00](#) [B32B27/18](#) [B32B27/20](#) [B32B27/36](#) [B32B37/15](#) [B65D1/00](#) [B65D1/09](#) [B65D5/06](#) [B65D65/40](#) [B65D77/26](#) [B65D81/24](#) [B65D81/26](#) [B65D85/72](#) [C08G63/02](#) [C08G63/06](#) [C08G63/127](#) [C08G63/18](#) [C08G63/199](#) [C08J5/18](#) [C08K3/00](#) [C08K3/08](#) [C08K3/10](#) [C08K3/22](#) [C08K3/28](#) [C08K3/30](#) [C08K3/32](#) [C08K5/09](#) [C08K5/098](#) [C08L101/00](#) [C08L23/00](#) [C08L67/00](#) [C08L67/02](#) [C12G3/02](#) [C12H1/00](#) (Advanced/Invention); [A23L3/3436](#) (Advanced/Non-invention)

CPC: [C08G63/64](#) [B32B7/12](#) [B32B15/085](#) [B32B15/09](#) [B32B15/20](#) [B32B27/08](#) [B32B27/10](#) [B32B27/16](#) [B32B27/306](#) [B32B27/32](#) [B32B27/325](#) [B32B27/34](#) [B32B27/365](#) [B32B29/06](#) [B32B2250/02](#) [B32B2250/03](#) [B32B2250/04](#) [B32B2250/05](#) [B32B2250/24](#) [B32B2250/40](#) [B32B2255/10](#) [B32B2255/20](#) [B32B2270/00](#) [B32B2307/31](#) [B32B2307/518](#) [B32B2307/718](#) [B32B2307/7244](#) [B32B2307/738](#) [B32B2439/46](#) [B32B2439/60](#) [B32B2439/62](#) [B32B2439/70](#) [B32B2439/80](#) [C08J5/18](#) [C08J2323/08](#) [C08J2367/02](#) [C08J2423/08](#) [C08J2467/02](#) [A61M5/3129](#) [C08L67/00](#) [B01J20/264](#) [B01J20/3007](#) [B01J20/28042](#) [B65D85/72](#) [B32B2307/724](#) [A61J1/065](#) [A61J1/067](#) [A61J1/10](#) [Y10T428/1303](#) [Y10T428/1355](#) [Y10T428/1359](#) [Y10T428/31678](#) [C08K5/098](#) [C08G63/181](#) [C08G63/19](#) [B32B27/327](#) [B32B1/02](#) [A23L3/3436](#) [B32B27/18](#) [B32B27/36](#)

US class: [156/242](#) [206/524.6](#) [252/184](#) [264/532](#) [426/106](#) [428/34.2](#) [428/35.8](#) [428/35.9](#) [428/457](#)

[Classification Explorer](#)

Cited documents: WO200875639, WO08075639 A1, US6653440 BB, US6527976 BA, US3505282 A, US3505282, US2003068455 AA, US03505282, JP9234832 A2, JP8134194 A2, JP8134194, JP8127641 A2, JP7112949 A2, JP7112949, JP7079702 A2, JP61296028 A2, JP5317411 A2, JP5300939 A2, JP5115776 A2, JP51136845 A2, JP4063807 A2, JP3122137 A2, JP3014882 A2, JP2500846 T2, JP2009108153 A2, JP200837065, JP2008037065 A2, JP2006111718 A2, JP2006111718, JP2004323058 A2, JP2004229750 A2, JP2003521552 T2, JP2003291938, JP2003251775, JP2001252560

A2, JP2001105540 A2, JP2001105540, JP11255913 A2, JP11255913, JP10182804 A2, JP10182804, EP0850967 A2, CN1654536, CN1237936 A,

Forward Citations: WO15147031, WO14136844, WO14136812, WO14136811, WO14057991, US9776768, US9637604, US9518148, US2015232251, KR20160138462, KR20160118265, JP6160977, JP6115760, JP5557310, JP2014172945, JP2014167046, JP2011028477, EP3124232, EP3103829, EP2966126, EP2966125, EP2965808, EP2861503, EP2818540, CN106163799,

Abstract:

Source: US2014308405A A novel oxygen-absorbing resin composition is not responsive to a metal detector, produces no odor after absorption of oxygen and has excellent oxygen-absorbing performance, and an oxygen-absorbing molded article, and a multilayer body, container, injection-molded article and medical container. Further provided are an oxygen-absorbing resin composition etc. having excellent oxygen-absorbing performance in a wide range of humidity conditions from low to high humidity. The oxygen-absorbing resin composition is an oxygen-absorbing resin composition containing a polyester compound and a transition metal catalyst, in which the polyester compound has at least one constituent unit having a tetralin ring. Furthermore, the oxygen-absorbing molded article of the present invention is formed by molding the oxygen-absorbing resin composition into a film form or a sheet form. Moreover, the multilayer body, container, injection-molded article, medical container, etc. of the present invention are obtained by using the oxygen-absorbing resin composition of the present invention.

0) US4448317A – TAMPER EVIDENT CLOSURES AND PACKAGES

22) Family number: 28673962 (US4448317A)

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Title: TAMPER EVIDENT CLOSURES AND PACKAGES

Priority: CA19840447712 19840217 EP19840101269 19840208 US19880292661 19881230
WO1984US00206 19840213 US19830467791 19830218

Family:

Publication number	Publication date	Application number	Application date
<u>AT39459 E</u>	19890115	AT19840101269T	19840208
<u>AU198426538 A1</u>	19840910	AU19840026538	19840213
<u>AU561982 B2</u>	19870521	AU19840026538	19840213
<u>CA1253116 A1</u>	19890425	CA19840447712	19840217
<u>DE3475769 D1</u>	19890202	DE19843475769	19840208
<u>EP0116892 A2</u>	19840829	EP19840101269	19840208
<u>EP0116892 A3</u>	19850911	EP19840101269	19840208
<u>EP0116892 B1</u>	19881228	EP19840101269	19840208
<u>ES290070 U</u>	19861116	ES19840290070U	19840217
<u>ES290070 Y</u>	19870716	ES19840290070U	19840217
<u>ES290070 Y1</u>	19870814	ES19840290070U	19840217
<u>IE55522 B</u>	19901010	IE19840000379	19840217
<u>IE840379 L</u>	19840818	IE19840000379	19840217
<u>IL70843 A0</u>	19840531	IL19840070843	19840201
<u>IL70843 A1</u>	19870831	IL19840070843	19840201
<u>IN163531 A</u>	19881008	IN1984CA00091	19840206
<u>JP1772225 C3</u>	19930714	JP19840501094	19840213
<u>JP4064941 B4</u>	19921016	JP19840501094	19840213
<u>JP60500524 T2</u>	19850418	JP19840501094T	19840213
<u>KR840007701 A</u>	19841210	KR19840000742	19840216
<u>MX158578 A</u>	19890215	MX19840200380	19840217
<u>NZ207189 A</u>	19870630	NZ19840207189	19840217
<u>US4448317 A</u>	19840515	US19830467791	19830218
<u>US4489841 A</u>	19841225	US19830467794	19830218
<u>US4905851 A</u>	19900306	US19880292661	19881230
<u>WO8403270 A1</u>	19840830	WO1984US00206	19840213
<u>ZA8400458 A</u>	19850227	ZA19840000458	19840120

Probable Assignee: ZAPATA INNOVATIVE CLOSURES INC

Assignee(s):^(std): TRI TECH SYST ; TRI TECH SYSTEMS INT INC ; TRI TECH SYSTEMS INTERNATIONAL INC ; TRI TECH SYSTEMS INTERNAT INC

Assignee(s): YODER J SCOTT ; ZAPATA INNOVATIVE CLOSURES INC ; TRI TECH SYSTEMS INTERNATIONAL INC ; FIRST FEDERAL SAVING AND LOAN ASSOCIATION OF TOLED ; FIRST FEDERAL SAVING AND LOAN ASSOCIATION OF TOLEDO 701 FIRST FEDERAL PLAZA TOLEDO OH 43624 ; INNOVATIVE CLOSURES INC ; MID AMERICAN BANK AND TRUST CO ; MID AMERICAN NATIONAL BANK AND TRUST CO ; TRI TECH SYSTEMS INT ; SCHEICH RICHARD A ; MID AMERICAN NATIONAL BANK AND TRUST COMAPNY ; S D TECHNOLOGIES INC ; TORAI TEKU SHISUTEMUZU INTERN INC ; MID AMERICAN NATIONAL BANK AND TRUST CO 222 SOUTH ; S D TECHNOLOGIES INC FL CORP ; THOMPSON MORTIMER S ; MID AMERICAN NATIONAL BANK AND TRUST CO 222 SOUTH MAIN STREET BOWLING GREEN OHIO 43402

Inventor(s):^(std): ASHER ELI ; THOMPSON MORTIMER S ; THOMPSON MORTIMER STAFFORD ; THOMPSON MS ; THOMPSON M S ; STAFFORD THOMPSON MORTIMER ; MORTIMER S THOMPSON ; ELI ASHER

Inventor(s): TONPUSON MOOTEIMAA SUTATSUFUOODO

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY; REINHOLD COHN AND PARTNERS

Designated states: AT AU BE BR CF CG CH CM DE DK FI FR GA GB HU IT JP LI LU MC MR NL NO RO SE SN SU TD TG

International class
(IPC 8-9): B65D41/18 B65D41/34 B65D55/02 (Advanced/Invention);
B65D41/34 (Advanced/Non-invention);
B65D41/02 B65D41/34 B65D55/02 (Core/Invention)

International class
(IPC 1-7): B65D41/04 B65D41/18 B65D41/28 B65D41/34 B65D55/02 B67B1/00 B67B3/00

CPC: Y10S206/807 B65D55/026

European class: B65D55/02G

US class: 206/459.1 206/807 215/203 215/230 215/365

[Classification Explorer](#)

Cited documents: US4678083 A, US4666052 A, US4603785 A, US4591063 A, US4579240 A, US4489841 A, US4461389 A, US4456139 A, US4436213 A, US4432462 A, US4424911 A, US4423822 A, US3984005 A, US3935960 A, US3923198 A, US3923198, US3899295 A, US3896965 A, US3887734 A, US3887734, US3468744 A, US3433152 A, US2939597 A, US2414420 A, US2201205 A, JP59209542,

Forward Citations: WO9205083, WO9106486, WO9106486, WO9128640, WO9128640, WO9047702, WO05021400, US9708105, US9637271, US9409686, US9409682, US9334084, US8800471, US8322555, US8286812, US7913870, US7704589, US7682696, US6968968, US6929136, US6478175, US6108475, US6102224, US6029807, US5566846, US5477972, US5284694, US5257705, US5240131, US5236101, US5156720, US5152412, US5145079, US5104704, US5103979, US5064664, US5062928, US5055150, US5022545, US5015318, US4994314, US4927036, US4905851, US4837061, US4801028, US4793500, US4771923, US4736857, US4718553, US2016137381, US2016068311, US2015176818, US2011232560, US2010089922, US2009255897, US2007289935, US2006246802, US2006068168, US2006054526, US2005056645, KR100982879, GB2345067, GB2283735, EP1660383, EP0303400, EP0269317, EP0269317, EP0243545, EP0243545, EP0233077, EA007707, DE4002967, CN105189301, AU597572,

Abstract:

Source: US4448317A A tamper evident closure and package having a container (10), a resealable, substantially rigid closure (12) for closing, opening and reclosing the container (10), color changing means (32a in Figures 1-6) which effect a color change upon stretching, and coacting mechanical means (24, 36, 44 and 46 in Figures 1-6) for uncapping and recapping the closure 10 and for stretching the color changing means (32a) which clearly and unequivocally indicate the condition of the package, e.g., open or closed. Where legends, or other well defined indicia, indicating opening is desired, the color changes can be localized in the skirt by providing thin sections (32a) which stretch preferentially and adjacent thicker sections (38) which remain substantially unstretched. The thin sections (32a) for example can be a legend, or alternatively the thick sections (38) can be the legend while the thin sections (32a) provide a suitable background. The colour changes employed by the invention can be accomplished by such phenomena as stress whitening inherent in various plastic materials. Alternatively, the color changes can be accomplished by mechanisms such as the use of encapsulated staining or coloring agents incorporated in a suitable matrix.

23) Family number: 42979846 (US2010276452A)

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Title: MODULE FOR A MODULAR BEVERAGE DISTRIBUTION SYSTEM**Priority:** CN200880112236 20080819 EP20070388059 20070820 WO2008DK00291 20080819
EP20080784415 20080819 EP20110187085 20080819 EP20130173521 20080819**Family:**

Publication number	Publication date	Application number	Application date
<u>AT537108 E</u>	20111215	AT20080784415T	20080819
<u>AU2008290973 AA</u>	20090226	AU20080290973	20080819
<u>AU2008290973 BB</u>	20120830	AU20080290973	20080819
<u>CA2697308 AA</u>	20100219	CA20082697308	20080819
<u>CN101827779 A</u>	20100908	CN200880112236	20080819
<u>CN101827779 B</u>	20140319	CN200880112236	20080819
<u>CN103224212 A</u>	20130731	CN201310139769	20080819
<u>CN103224212 B</u>	20160706	CN201310139769	20080819
<u>DE602008012029 D1</u>	20120308	DE200860012029T	20080819
<u>DE602008040950 D1</u>	20151217	DE200860040950T	20080819
<u>DE602008041488 D1</u>	20160114	DE200860041488T	20080819
<u>DK2181063 T3</u>	20120402	DK20080784415T	20080819
<u>DK2444366 T3</u>	20160208	DK20080187085T	20080819
<u>DK2660186 T3</u>	20160201	DK20080173521T	20080819
<u>EA016993 B1</u>	20120830	EA20100070280	20080819
<u>EA201070280 A1</u>	20100830	EA20100070280	20080819
<u>EP2181063 A2</u>	20100505	EP20080784415	20080819
<u>EP2181063 B1</u>	20111214	EP20080784415	20080819
<u>EP2444366 A2</u>	20120425	EP20110187085	20080819
<u>EP2444366 A3</u>	20120725	EP20110187085	20080819
<u>EP2444366 B1</u>	20151202	EP20110187085	20080819
<u>EP2660186 A1</u>	20131106	EP20130173521	20080819
<u>EP2660186 B1</u>	20151028	EP20130173521	20080819
<u>IL204012 A0</u>	20101031	IL20080204012	20080819
<u>IL204012 A1</u>	20160331	IL20080204012	20080819
<u>IN01453CN2010 A</u>	20100813	IN2010CN01453	20100315
<u>JP2010536669 T2</u>	20101202	JP20100521303T	20080819
<u>JP5425075 B2</u>	20140226	JP20100521303T	20080819
<u>PT2181063 T</u>	20120323	PT20080784415T	20080819
<u>RS54663 B1</u>	20160831	RS20160000126	20080819
<u>UA97008 C2</u>	20111226	UA20100003314	20080819
<u>US2010276452 AA</u>	20101104	US20080674358	20080819
<u>US8479955 BB</u>	20130709	US20080674358	20080819
<u>WO09024147 A2</u>	20090226	WO2008DK00291	20080819
<u>WO09024147 A3</u>	20091105	WO2008DK00291	20080819
<u>ZA201001373 A</u>	20110727	ZA20100001373	20100225
<u>ZA201001373 A</u>	20111228	ZA20100001373	20100225
<u>ZA201001373 A</u>	20120125	ZA20100001373	20100225

Probable Assignee: CARLSBERG BREWERIES A S**Assignee(s):^(std):** CARLSBERG BREWERIES AS ; RASMUSSEN JAN N ; VESBORG STEEN ;
RASMUSSEN JAN NOERAGER

Assignee(s): CARLSBERG BREWERIES A S ; CARLSBERG BREWERIES A SNY CARLSBERG VEJ 100DK-1799COPENHAGEN VDK

Inventor(s):(std): NOERAGER RASMUSSEN JAN ; RASMUSSEN JAN ; RASMUSSEN JAN N ; RASMUSSEN JAN NOERAGER ; RASMUSSEN JAN NORAGER ; STEEN VESBORG ; VESBORG STEEN ; RASMUSSEN JAN NA RAGER

Inventor(s): JAN NOERAGER RASMUSSEN ; JAN NORAGER RASMUSSEN ; VESBORG STEENDK ; RASMUSSEN JAN NOERAGERDK

Agent(s): FRANKE HYLAND; BENOIT AND COTE INC; VOSSIUS AND PARTNER
PATENTANWAELE RECHTSANWAELE MBB; MEISSNER BOLTE AND PARTNER
GBR; NIELSEN HENRIK STEN; BUDDE SCHOU A S; PEARL COHEN ZEDEK LATZER
BARATZ; KLEIN ONEILL AND SINGH LLP

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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): B65D35/28 B67D B67D1/00 B67D1/04 B67D1/08 B67D1/12 B67D7/06 B67D7/80 (Advanced/Invention);
B67D1/00 (Core/Invention);
B67D (Subclass/Invention)

International class
(IPC 1-7): B67D1/04

CPC: B67D1/0081 B67D1/0082 B67D1/0085 B67D1/0425 B67D1/0462 B67D1/06 B67D1/07 B67D1/0807 B67D1/0835 B67D1/0878 B67D1/12 B67D1/125 B67D1/1252 B67D2001/0828 B67D2210/00034 B67D2210/00047

European class: B67D1/00H8 B67D1/00H8B B67D1/00H8C B67D1/04B4 B67D1/04E B67D1/06 B67D1/07 B67D1/08A8 B67D1/08B2B B67D1/08H B67D1/12 B67D1/12F B67D1/12G L67D1/08A36B L67D1/12G L67D210/00D2B L67D210/00D4

US class: 222/105 222/129 222/144.5 222/144.500P 222/146.6 222/146.600S

[Classification Explorer](#)

Cited documents: WO9110615 A1, WO08144471 A1, WO07019853 A2, WO07019852 A1, WO07019851 A1, WO07019850 A2, WO07019849 A2, WO07019848 A2, WO0214726 A1, US8109115 BB, US8028857 BB, US7779856 BB, US6554207 BB, US5555997 A, US5363671 A, US5240144 A, US5009082 A, US4941593 A, US4932561 A, US4531656 A, US4094445 A, US3976227 A, US3880330 A, US3847173 A, US3625399 A, US3464591 A, US3305136 A, US2176580 A, US2010176147 AA, US2007157656 AA, US2007079625 AA, US2004011828 AA, US2002100816 AA, GB711134 A, GB2381258 A1, EP1190985 A2, CN1852858, AU620409 B2,

Forward Citations: WO17072114, WO16168220, WO16079248, WO13113657, US9809443, US9764935, US9732862, US9415993, US9266708, US9174179, US9102508, US9073741, US8857666, US2016060088, US2016051947, US2015028052, US2014138403, US2014124094, US2013025467, US2011253746, US2011253743, ITMI20131809, ES2579443, EP3162757, EP2623455, EP2456687, EP2456687, CN104629973, CN104203802, CN104203802, CN102985352, CN102470972, CN102470972,

Abstract:

Source: US2010276452A The present invention relates to a module (28) for a modular pressure distribution system (8) comprising a plurality of modules. The module (28) comprises a frame (60, 60', 61, 61') defining an outer periphery and a space defined within the outer periphery and a pressure chamber (22) for receiving a beverage container (68), the pressure chamber being arranged within the space. The module further comprises a first type connector (46) and a second type connector (48) positioned at the outer periphery. A fluid path (47) establishes fluid communication from the first type connector to the second type connector. The first type connector (46) is connectable to a connector of the second type connector (48) of a neighbouring module, and the first type connector is adapted to receive a pressure-fluid from a pressure-fluid source. The second type connector is adapted to transfer the pressure-fluid to a first type connector of a neighbouring module. The module still further comprises a third type connector (66) in fluid communication with the first type connector and supplying the pressure-fluid to the pressure chamber (22).

0) US6024255A – TAMPER EVIDENT CLOSURE WITH PUSH–PULL POUR SPOU...

24) Family number: 12867081 (US6024255A)

© PatBase

Title: TAMPER EVIDENT CLOSURE WITH PUSH–PULL POUR SPOUT
Priority: US19960603148 19960215 US19960749488 19961115 WO1997US20837 19971117
US19980067583 19980428 US19970948342 19971009 US19970927311 19970911

Family:	Publication number	Publication date	Application number	Application date
	BRPI9712769 A	19991026	BR1997PI12769	19971117
	CA2271967 AA	19990514	CA19972271967	19971117
	EP0938431 A2	19990901	EP19970947524	19971117
	US6024255 A	20000215	US19970927311	19970911
	US6070766 A	20000606	US19970948342	19971009
	US6073809 A	20000613	US19960749488	19961115
	US6073810 A	20000613	US19980067583	19980428
	WO9729969 A1	19970821	WO1997US02446	19970214
	WO9821110 A2	19980522	WO1997US20837	19971117
	WO9821110 A3	19981029	WO1997US20837	19971117

Probable Assignee: INT PLASTICS AND EQUIPMENT CORP
Assignee(s):^(std): INT PLASTICS AND EQUIPMEN ; INT PLASTICS AND EQUIPMENT COR
Assignee(s): INT PLASTICS AND EQUIPMENT CORP ; LONG CHARLES J JR ; SILGAN IPEC CORP
Inventor(s):^(std): LONG CHARLES J JR ; LONG JR CHARLES J
Inventor(s): CHARLES J LONG JR ; CHARLES JLONG JR ; LONG CHARLES J
Agent(s): BORDEN LADNER GERVAIS LLP
Designated states: AT BE BR CA CH CN DE DK ES FI FR GB GR IE IT LI LU MC MX NL PT SE
International class
(IPC 8–9): [B65D41/48 B65D47/24](#) (Advanced/Invention);
[B65D41/32 B65D47/04](#) (Core/Invention)
International class
(IPC 1–7): [B65D41/48 B65D47/24 B67D5/06 B67D5/32](#)
CPC: [Y02W30/807 B65D47/243 B65D41/48 B65D41/485](#)
European class: [B65D41/48 B65D41/48B B65D47/24A2](#)
US class: [215/216 215/256 222/153.06 222/153.07 222/182 222/525](#)

[Classification Explorer](#)

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Forward Citations: WO11039400, WO08048406, WO08034065, WO08034065, WO03062083, WO03026999, WO03004361, WO03004361, WO0230778, USD739500, USD537714, US9428308, US9221578, US8464749, US8141578, US7743952, US7681587, US7228979, US7152760, US6874656, US6682678, US6439429, US6286733, US2014197126, US2008302836, US2008232927, US2008093396, US2007133909, US2004251228, US2004245260, US2004166208, FR2917070, EP3027525, EP2000416, EP1332859, CZ300734, AU2002312153, AU2002312153,

Abstract:

Source: US6024255A The present invention relates to a substantially leak proof tamper-evident container closure that combines a reusable, push-pull spout with a snap-on tamper evident closure which is substantially tamper proof. The closure has first and second locking members characterized by the first locking member having an inward flange with an upturned locking edge forming an annular groove in the flange. The push pull resealable pour spout with an opening therein which is partially closed by a second top having a secondary opening therein and a plug space thereabove with upwardly angled legs formed integral with the closure. Integrated into the periphery of the secondary opening is at least one and preferably two annular flanges. The annular flanges engage and create a sealing contact with the annular surface of the plug to provide a seal which is leak proof after many uses. The lower edge of the push-pull pour spout contains a tamper evident band to indicate if the push-pull pour spout has been "tampered" with even in situations where the container closure has not been disturbed. The present invention also optionally provides a dust cover which encloses the push-pull pour spout closure when inserted on the container. The dust cover may be optionally provided with a tamper-evident sealing band which remains intact upon initial installation of the dust cover onto the container and which is broken when the dust cover is initially disturbed. When the dust cover is provided with a tamper-evident sealing band, the use of a band on the lower edge of the pour spout closure for providing tamper-evidency may be eliminated.

25) Family number: 42164878 (US2008223814A)

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Title: BOTTLE-OPENER FOR UNCAPPING A BOTTLE NECK**Priority:** EP20080787776 20080312 FR20070053785 20070313 US20070949941 20071204
WO2008FR00317 20080312 US20080523743 20080312 FR20070083785 20070313**Family:**

Publication number	Publication date	Application number	Application date
<u>AR065591 AA</u>	20090617	AR2008P100893	20080303
<u>AU2008244129 AA</u>	20081106	AU20080244129	20080312
<u>AU2008244129 BB</u>	20130711	AU20080244129	20080312
<u>CA2675035 AA</u>	20090708	CA20082675035	20080312
<u>CA2675035 C</u>	20160802	CA20082675035	20080312
<u>CL2008000724 A1</u>	20080718	CL20080000724	20080312
<u>CL51470 B</u>	20151130	CL20080000724	20080312
<u>CN101622189 A</u>	20100106	CN200880006132	20080312
<u>CN101622189 B</u>	20110720	CN200880006132	20080312
<u>DE602008028165 D1</u>	20131212	DE200860028165T	20080312
<u>EP2134639 A2</u>	20091223	EP20080787776	20080312
<u>EP2134639 B1</u>	20131016	EP20080787776	20080312
<u>ES2443032 T3</u>	20140217	ES20080787776T	20080312
<u>FR2913677 A1</u>	20080919	FR20070053785	20070313
<u>FR2913677 B1</u>	20120831	FR20070053785	20070313
<u>HR20131222 T1</u>	20140131	HR20130001222	20131223
<u>IN05467CN2009 A</u>	20091218	IN2009CN05467	20090916
<u>PT2134639 I</u>	20140103	PT20080787776T	20080312
<u>RU2009128371 A</u>	20110127	RU20090128371	20080312
<u>RU2478561 C2</u>	20130410	RU20090128371	20080312
<u>SI2134639 T1</u>	20140430	SI20080031119T	20080312
<u>UA96000 C2</u>	20110926	UA20090007736	20080312
<u>US2008223814 AA</u>	20080918	US20070949941	20071204
<u>US2010078404 AA</u>	20100401	US20080523743	20080312
<u>US8479937 BB</u>	20130709	US20080523743	20080312
<u>WO08132332 A2</u>	20081106	WO2008FR00317	20080312
<u>WO08132332 A3</u>	20081224	WO2008FR00317	20080312

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JEROME GONZALEZ CHRISTIAN HAINON LAURENT LEDUC NICOLAS CHRISTOPHE PHILIPPE ; BARANGE JACQUES COLLARD JEROME GONZALEZ...

Agent(s): SPRUSON AND FERGUSON; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; SARGENT AND KRAHN; FENOT DOMINIQUE; CASALONGA; DE ELZABURU ALBERTO; CONSTELLIUM CRV; CASALONGA AND ASSOCIES; GEVERS FRANCE; DENNISON SCHULTZ AND MACDONALD; LADAS AND PARRY LLP

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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): B23P11/00 B65D51/24 B67B7/00 B67B7/15 B67B7/16 (Advanced/Invention);
B23P11/00 B65D51/00 B65D51/24 B67B7/00 (Core/Invention)

International class
(IPC 1-7): B65D51/24 B67B3/22 B67B7/16

CPC: Y10T29/49826 B67B7/162 B65D51/243

European class: B65D51/24D B67B7/16B

US class: 215/302 215/304 215/305 220/285 29/428 29/428S 81/3.15 81/3.150S 81/3.41 81/3.42 81/3.44 81/3.440S 81/3.56 81/3.560S

[Classification Explorer](#)

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Forward Citations: WO13034594, US9688523, TWI598285, CN103889880, CN103889880, CN103253442, CN103221329, CN103221329,

Abstract:

Source: US2008223814A A bottle-opener for a closure for a bottle neck includes a hood 30 equipped with a first hook 38 comprising a contact surface with a lower surface of the closure, and a transmission lever hinged 32 on the hood and provided with a grip section 52 and a working portion 54 suitable for coming to bear against an upper surface of the closure.

26) Family number: 44418481 (US2002025912A)

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Title: CONVEYOR LUBRICANT, PASSIVATION OF A THERMOPLASTIC CONTAINER TO STRESS CRACKING AND THERMOPLASTIC STRESS CRACK INHIBITOR

Priority: EP20000955496 20000814 EP20030075254 20000814 US19990149048P 19990816
 US19990149095 19990816 US19990149048 19990816 EP20030076177 20000814
 US19990149095P 19990816 US20000596697 20000616 US20010840365 20010423
 US20000596599 20000619 US20000596697 20000619 US20000596599 20000616
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 US20030639613 20030811 WO2000US22190 20000814 US20090553563 20090903
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 US20110270619 20111011 US20030715692 20031118 US20020287559 20021101
 US20020190235 20020703 US20030715575 20031118

Family:

Publication number	Publication date	Application number	Application date
<u>AT288387 E</u>	20050215	AT20000075253T	20000814
<u>AT367425 E</u>	20070815	AT20000955496T	20000814
<u>AT411227 E</u>	20081015	AT20000076178T	20000814
<u>AT535458 E</u>	20111215	AT20000075254T	20000814
<u>AU200067695 A1</u>	20010313	AU20000067695	20000814
<u>AU200067695 A5</u>	20010313	AU20000067695	20000814
<u>AU763456 B2</u>	20030724	AU20000067695	20000814
<u>CA2381733 AA</u>	20020212	CA20002381733	20000814
<u>CA2381733 C</u>	20090512	CA20002381733	20000814
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<u>DE60017952 T2</u>	20051229	DE20006017952T	20000814
<u>DE60035600 D1</u>	20070830	DE20006035600	20000814
<u>DE60035600 T2</u>	20080430	DE20006035600T	20000814
<u>DE60046714 D1</u>	20120301	DE20006046714	20000814
<u>DE60047243 D1</u>	20120726	DE20006047243	20000814
<u>DE60324046 D1</u>	20081127	DE20036024046	20000814
<u>DK1308393 T3</u>	20050509	DK20000075253T	20000814
<u>DK1334914 T3</u>	20090216	DK20000076178T	20000814
<u>DK1350836 T3</u>	20120702	DK20000076177T	20000814
<u>EP1214387 A2</u>	20020619	EP20000955496	20000814
<u>EP1214387 B1</u>	20070718	EP20000955496	20000814
<u>EP1308393 A1</u>	20030507	EP20030075253	20000814
<u>EP1308393 B1</u>	20050202	EP20030075253	20000814
<u>EP1308394 A2</u>	20030507	EP20030075254	20000814
<u>EP1308394 A3</u>	20030521	EP20030075254	20000814
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<u>EP1334914 A1</u>	20030813	EP20030076178	20000814
<u>EP1334914 A8</u>	20040128	EP20030076178	20000814
<u>EP1334914 B1</u>	20081015	EP20030076178	20000814
<u>EP1350836 A1</u>	20031008	EP20030076177	20000814
<u>EP1350836 B1</u>	20120530	EP20030076177	20000814
<u>ES2237734 T3</u>	20050801	ES20030075253T	20000814
<u>ES2378848 T3</u>	20120418	ES20030075254T	20000814
<u>ES2388061 T3</u>	20121008	ES20030076177T	20000814
<u>JP2003507270 T2</u>	20030225	JP20010517646T	20000814
<u>JP4261103 B2</u>	20090430	JP20010517646T	20000814

<u>US2002025912 AA</u>	20020228	US20010840365	20010423
<u>US2003073589 AA</u>	20030417	US20020287559	20021101
<u>US2003134752 AA</u>	20030717	US20020190235	20020703
<u>US2004058829 AA</u>	20040325	US20030614474	20030707
<u>US2004097382 AA</u>	20040520	US20030715575	20031118
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<u>US2005277556 AA</u>	20051215	US20030639613	20030811
<u>US2008210522 AA</u>	20080904	US20080108657	20080424
<u>US2009017243 AA</u>	20090115	US20070981591	20071031
<u>US2009321222 AA</u>	20091231	US20090553563	20090903
<u>US2012024665 AA</u>	20120202	US20110270619	20111011
<u>US6207622 BA</u>	20010327	US20000596697	20000616
<u>US6288012 BA</u>	20010911	US19990441881	19991117
<u>US6427826 BA</u>	20020806	US20000595835	20000616
<u>US6495494 BA</u>	20021217	US20000596599	20000616
<u>US6673753 BB</u>	20040106	US20010840365	20010423
<u>US6743758 BB</u>	20040601	US20020287559	20021101
<u>US6780823 BB</u>	20040824	US20020190235	20020703
<u>US6806240 BA</u>	20041019	US20020049452	20020614
<u>US7364033 BB</u>	20080429	US20030639613	20030811
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<u>US7384895 BB</u>	20080610	US20030614474	20030707
<u>US7600631 BB</u>	20091013	US20080108657	20080424
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<u>US8469180 BB</u>	20130625	US20110270619	20111011
<u>WO0112759 A2</u>	20010222	WO2000US22190	20000814
<u>WO0112759 A3</u>	20020207	WO2000US22190	20000814
<u>WO0112759 C1</u>	20010802	WO2000US22190	20000814
<u>WO0112759 C2</u>	20020711	WO2000US22190	20000814

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Inventor(s):^(std): BESSE MICHAEL ; BESSE MICHAEL E ; BESSE MICHAEL EDWARD ; HEI KIMBERELY ; HEI KIMBERELY L ; HEI KIMBERELY L P ; HEI KIMBERLEY ; HEI KIMBERLEY L ; HEI KIMBERLEY L P ; HEI KIMBERLY L P ; HEI KIMBERLY L PERSON ; HERDT JOY ; HERDT JOY G ; LI MINYU ; LOKKESMOE KEIGHT DARRELL ; LOKKESMOE KEITH ; LOKKESMOE KEITH D ; LOKKESMOE KEITH DARRELL ; PERSON HEI KIMBERLY L ; WEI GUANG JONG ; WEI GUANG JONG J ; WEI GUANG JONG JASON ; MINYU LI ; WEI QUANG JONG JASON

Inventor(s): MINYU LI OAKDALE ; WEI GUANG JONG JASON MENDOTA HEIGHTS ; LOKKESMOE KEITH DARRELL SAVAGE ; MICHAEL E BESSE ; HERDT JOY G HASTINGS ; JOY G HERDT ; KEITH DARRELL LOKKESMOE ; KIMBERELY L P HEI ; HEI KIMBERLY L P BALDWIN ; HEI KIMBERELY L P BALDWIN ; HEI KIMBERELY LP ; GUANG JONG JASON WEI ; BESSE MICHAEL E GOLDEN VALLEY

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; CASSAN MACLEAN; VEREENIGDE OCTROOIBUREAUX VO; PRINS ADRIANUS WILLEM; PRINS ADRIANUS WILLEM ET AL; TSURUTA JUNICHI; HIGUCHI SOTOJI; ISHIDA TAKASHI; NISHIYAMA MASAYA; MERCHANT AND GOULD PC; ECOLAB INC; SORENSSEN ANDREW D; MAYER ANNELIESE S; HOFFMAN AMY J; AMY J; ANNELIESE S; ANDREW D; IPLM GROUP PA; LAURA C

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 CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class
(IPC 8-9):
B05D3/02 B32B1/02 B65D23/00 B65D23/08 B65D25/34 B65D65/40 B65G15/30 B65G45/00 B65G45/02 B65G45/08 C07C13/00 C08J7/06 C08L101/00 C08L91/00 C10M101/00 C10M101/02 C10M101/04 C10M105/14 C10M105/24 C10M105/40 C10M105/58 C10M105/74 C10M107/34 C10M107/38 C10M107/50 C10M111/02 C10M111/04 C10M125/10 C10M129/18 C10M129/90 C10M133/00 C10M137/02 C10M139/00 C10M139/04 C10M141/12 C10M155/02 C10M157/10 C10M159/00 C10M169/04 C10M171/00 C10M173/00 C10M173/02 (Advanced/Invention); B65D65/40 B65G15/30 C08L91/00 C10N20/00 C10N40/00 (Advanced/Non-invention); B65D23/00 B65D25/00 B65D65/40 B65G15/30 B65G45/00 C08J7/00 C08L101/00 C08L91/00 C10M101/00 C10M105/00 C10M107/00 C10M111/00 C10M139/00 C10M141/00 C10M155/00 C10M157/00 C10M159/00 C10M169/00 C10M171/00 C10M173/00 C10M173/02 (Core/Invention)

International class
(IPC 1-7):
B65D1/02 B65D23/08 B65D25/34 B65D65/40 B65G15/30 B65G45/00 B65G45/02 C08L101/00 C08L91/00 C10M101/00 C10M101/02 C10M101/04 C10M105/08 C10M105/14 C10M105/40 C10M105/58 C10M105/74 C10M107/34 C10M107/50 C10M111/02 C10M111/04 C10M125/02 C10M139/00 C10M139/02 C10M139/04 C10M141/12 C10M155/02 C10M157/10 C10M159/00 C10M169/04 C10M173/00 C10M173/02

CPC:
B65G45/02 B65G2201/0244 C10M155/02 B65G45/08 C10M101/00 C10M101/02 C10M101/04 C10M169/04 C10M2203/1006 C10M2207/1253 C10M2207/126 C10M2207/283 C10M2213/0606 C10M2229/02 C10N2230/06 C10N2230/16 C10N2230/56 Y10T428/1352 C10M2229/05 B65D23/0814 C10M105/14 C10M105/24 C10M107/38 C10M107/50 C10M111/02 C10M111/04 C10M171/00 C10M173/00 C10M173/025 C10M2201/02 C10M2203/10 C10M2203/102 C10M2203/104 C10M2203/106 C10M2203/108 C10M2207/0203 C10M2207/022 C10M2207/0225 C10M2207/125 C10M2207/129 C10M2207/2835 C10M2207/284 C10M2207/285 C10M2207/40 C10M2207/401 C10M2207/404 C10M2209/1033 C10M2209/1075 C10M2209/12 C10M2211/042 C10M2211/06 C10M2213/00 C10M2213/02 C10M2213/04 C10M2213/043 C10M2213/06 C10M2213/062 C10M2213/0623 C10M2215/023 C10M2223/0405 C10M2229/025 C10M2229/041 C10M2229/0415 C10M2229/045 C10M2229/046 C10M2229/047 C10M2229/048 C10N2240/00 C10N2240/22 C10N2240/30 C10N2240/50 C10N2240/52 C10N2240/54 C10N2240/56 C10N2240/58 C10N2240/60 C10N2240/66 C10N2250/02 C10N2250/121

European class:
B65D23/08B1 B65G45/02 C10M101/00 C10M101/02 C10M101/04 C10M105/14 C10M105/24 C10M107/38 C10M107/50 C10M111/02 C10M111/04 C10M155/02 C10M169/04 C10M171/00 C10M173/00 C10M173/02B L65G201/02F6 M10M201/02 M10M203/10 M10M203/102 M10M203/104 M10M203/106 M10M203/108 M10M203/10B M10M207/022 M10M207/022B M10M207/02B M10M207/125 M10M207/125B M10M207/126 M10M207/129 M10M207/283 M10M207/283B M10M207/284 M10M207/285 M10M207/40 M10M207/404 M10M207/40B M10M209/103B M10M209/107B M10M209/12 M10M211/042 M10M211/06 M10M213/00 M10M213/02 M10M213/04 M10M213/04B M10M213/06 M10M213/062 M10M213/062B M10M213/06B M10M215/02B M10M223/04B M10M229/02 M10M229/02B M10M229/041 M10M229/041B M10M229/045 M10M229/046 M10M229/047 M10M229/048 M10M229/05 M10N230/06 M10N230/16 M10N230/56 M10N240/00 M10N240/22 M10N240/30 M10N240/50 M10N240/52 M10N240/54 M10N240/56 M10N240/58 M10N240/60 M10N240/66 M10N250/02 M10N250/121

US class:
198/500 198/500S 215/12.2 427/316 427/316S 427/424 428/35.7 428/35.700P 508/100 508/100S 508/107 508/107S 508/11 508/110 508/110S 508/113 508/126 508/180 508/180S 508/181 508/182 508/183 508/202 508/202P 508/202S 508/206 508/206P 508/208 508/208P 508/208S 508/209 508/209S 508/214 508/214S 508/215 508/215S 508/304 508/304S 508/423 508/423S 508/433 508/433S 508/485 508/485S 508/486 508/486S 508/491 508/491S 508/545 508/545S 508/579 508/579S 508/58 508/580 508/580S 508/582 508/583 508/583S 508/590 585/20 585/20S

[Classification Explorer](#)

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A, US5876812 A, US5871590 A, US5869436 A, US5863874 A, US5863871, US5789459 A, US5783303 A, US5747431 A, US5747430 A, US5728770 A, US5723418 A, US5721023 A, US5719022 A, US5698498 A, US5698269 A, US5688747 A, US5681628 A, US5672401 A, US5663131 A, US5658619 A, US5652034 A, US5573819 A, US5565127 A, US5559087 A, US5549836 A, US5534172 A, US5509965 A, US5486316 A, US5474692 A, US5427258 A, US5391308 A, US5371112 A, US5352376 A, US5334322 A, US5320132 A, US5317061 A, US5244589 A, US5238718 A, US5202037 A, US5191779 A, US5182035 A, US5174914 A, US5160646 A, US5145721 A, US5139834 A, US5115047 A, US5073280 A, US5062979 A, US5043380 A, US5009801 A, US5001935 A, US4980211 A, US4929375 A, US4919984 A, US4874647 A, US4855162 A, US4851287 A, US4828727 A, US4769162 A, US4719022 A, US4714580 A, US4713266 A, US4709806 A, US4699809 A, US4690299 A, US4652386 A, US4632053 A, US4627457 A, US4604220 A, US4573429 A, US4569869 A, US4555543 A, US4543909 A, US4538542 A, US4534995 A, US4525377 A, US4515836 A, US4486378 A, US4478889 A, US4436200 A, US4420578 A, US4375444 A, US4343616 A, US4324671 A, US4289671 A, US4274973 A, US4264650 A, US4262776 A, US4252528 A, US4248724 A, US4162347 A, US4149624 A, US4105716 A, US4069933 A, US4065590 A, US4062785 A, US3981812 A, US3937676 A, US3876410 A, US3853607 A, US3664956 A, US3514314 A, US34742 A, US3423303 B1, US3213024 A, US3011975 A, US2004058829 AA, US2002025912 AA, US2001003733 AA, US14486378, NL9300742 A, JPS573892, JP8057294, JP7268380, JP7247293, JP7/268380, JP7/247293, JP6504961, JP6503116, JP6136377 A2, JP57044656, JP57003892 A2, JP10129642, JP10059523 A2, JP10053679 A2, GB1564128 A, EP99305796, EP0844299 A1, EP0359330 A2, DE19720292 C1, CA2381345 AA, CA1157456 A1,

Forward Citations:

WO16196112, WO16095055, WO15173465, WO14071285, WO11008131, WO11008131, WO10027532, WO09103747, WO08121720, WO08073951, WO08048198, WO08048198, WO08031176, WO07094980, WO07094980, WO07075078, WO07040678, WO07040677, WO05047146, WO05014764, WO03078557, WO03078557, WO03072468, WO03027217, USD710712, US9789280, US9789279, US9783760, US9770580, US9758742, US9750928, US9750927, US9695323, US9675793, US9579486, US9562209, US9365798, US9359579, US9352119, US9340745, US9327095, US9267007, US9249370, US9061816, US9029312, US8987408, US8821455, US8802606, US8802605, US8801341, US8791187, US8765648, US8759263, US8754020, US8748360, US8716205, US8716200, US8703667, US8691887, US8685904, US8563677, US8557950, US8528761, US8513173, US8486872, US8469180, US8455409, US8431202, US8426348, US8343898, US8309500, US8216984, US8211838, US8097568, US8058215, US8056703, US8039577, US8003178, US7932345, US7915206, US7877968, US7850772, US7838596, US7819236, US7799891, US7776942, US7745512, US7745381, US7745368, US7741257, US7741255, US7727941, US7709595, US7709593, US7662880, US7655746, US7612024, US7600631, US7527745, US7439294, US7384895, US7371712, US7371711, US7368523, US7364033, US7300967, US7297666, US7172700, US7163627, US7156982, US7148188, US7148188, US7125827, US7125827, US7109152, US7067055, US7018561, US6967189, US6962897, US6855676, US6809068, US6806240, US6780823, US6777048, US6743758, US6696394, US6688434, US6677280, US6673753, US6653263, US6591970, US6548455, US6509302, US6500789, US6495494, US6427826, US2017166833, US2014349899, US2014315769, US2014284176, US2014251440, US2014068874, US2014051614, US2013193102, US2013150270, US2013035269, US2013029151, US2012241289, US2012053095, US2012035088, US2012024665, US2011269653, US2011192867, US2011190179, US2011160109, US2011143978, US2011092404, US2011065798, US2011034359, US2011020558, US2011017574, US2011009831, US2010286005, US2010282572, US2010276229, US2010137472, US2010137379, US2010136209, US2010135949, US2010105583, US2010102023, US2010048759, US2010009879, US2009321222, US2009100761, US2008319113, US2008312113, US2008300156, US2008286480, US2008283483, US2008280793, US2008210522, US2008176778, US2008153724, US2008125338, US2008058495, US2007298981, US2007260002, US2007219099, US2007161518, US2007137937, US2007119685, US2007066719, US2007066714, US2007066497, US2007066496, US2007020300, US2006287471, US2006276578, US2006211583, US2006211582, US2006205855, US2006205854, US2006135377, US2006122300, US2006110557, US2006106192, US2006106146, US2006105129, US2006051542, US2005288191, US2005277556, US2005176026, US2005167361, US2005167360, US2005153084, US2005145546, US2005126994, US2005119134, US2005070448, US2005059564, US2005037939, US2004235680, US2004198617, US2004122150, US2004102337, US2004102334, US2004097382, US2004058829, US2004055965, US2004053793, US2004029741, US2003194433, US2003139305, US2003104725, KR101456017, KR101398879, KR101366082, JP2013036043, JP2010512452, JP2010503747, JP2009526121, JP2009523178, JP2009509024, JP2009249128, JP2008106253, JP2007169555, JP2003529627, JP2003509536, JP2003509535, EP2126015, EP2105494, EP2105493, EP1932901, EP1346016, EP1334914, DE102008009937, BE1017271, AU2006335681,

Abstract:

Source: US2002025912A Thermally formed thermoplastic articles can be protected from stress cracking in the presence of stress cracking promoting compounds by forming a shaped article comprising a thermoplastic and a liquid hydrocarbon oil composition. We have found that the liquid hydrocarbon oil composition prevents the stress cracking promoting materials from interacting with the polymeric structure of the stressed container to prevent or inhibit stress cracking in such materials. The methods and compositions of the invention are particularly useful in preventing stress cracking in polyethylene terephthalate beverage containers during bottling operations during which the bottle is contacted with aqueous and non-aqueous materials such as cleaners and lubricants that can interact with the polyester to cause stress cracking particularly in the container base. A process for lubricating a container, such as a beverage container, or a conveyor for containers, by applying to the container or conveyor, a thin continuous, substantially non-dripping layer of a liquid lubricant. The process provides many advantages compared to the use of a conventional dilute aqueous lubricant.

27) Family number: 56144696 (US2015197371A)

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Title: BOTTLES WITH MEANS TO PREVENT GUSHING
Priority: EP20130798544 20130926 US20120706058P 20120926 US20150669386 20150326
 WO2013BE00049 20130926

Family:	Publication number	Publication date	Application number	Application date
	EP2903903 A1	20150812	EP20130798544	20130926
	EP2903903 B1	20170426	EP20130798544	20130926
	ES2634390 T3	20170927	ES20130798544T	20130926
	US2015197371 AA	20150716	US20150669386	20150326
	WO14047697 A1	20140403	WO2013BE00049	20130926

Probable Assignee: KATHOLIEKE UNIVERSITEIT LEUVEN

Assignee(s):^(std): UNIV LEUVEN KATH

Assignee(s): KATHOLIEKE UNIVERSITEIT LEUVEN

Inventor(s):^(std): DECKERS SYLVIE ; DERDELINCKX GUY ; KHALESİ MOHAMMADREZA ; MARTENS JOHAN ; RIVEROS GALAN DAVID SANTI ; SHOKRIBOUSJEIN ZAHRA ; SMET SAM ; VERACHTERT HUBERT ; VERLOOY PIETER

Agent(s): IPLODGE BVBA; ELZABURU SLP ELZABURU SLP; KATHOLIEKE UNIVERSITEIT LEUVEN

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 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

International class [B65D1/02](#) [B65D23/02](#) (Advanced/Invention)
 (IPC 8-9):

CPC: [B65D1/0207](#) [B65D23/02](#)

US class: [215/12.2](#)

[Classification Explorer](#)

Cited documents: WO05047166 A1, US7296508 BB, US7052725 BB, US6599594 BA, US6345729 BA, US6036054 A, US4311250 A, US4171056 A, US3598269 A, US3047417 A, US2011226658 AA, US2009285965 AA, US2005262813 AA, US2005224425 AA, US2002028304 AA, JP3048501 B2, JP3048499 B2, JP2810694 B2, JP2006020985 A2, JP2003112796 A2, JP2001293344 A2, CN201099613 Y, CN201052872 Y, CN201016040 Y,

Forward Citations: USD759493,

Abstract:

Source: US2015197371A The present invention relates to hydrophobic coating of hydrophilic bottles for carbonated beverages to prevent gushing, in particular to hydrophobic coating of the bottle neck of a glass bottle. The invention also relates to a method to apply such hydrophobic coating to the inner surface of the glass bottle neck.

0) US2011303631A – DEVICE FOR ATTACHING A FIGURINE ONTO A BEVERAGE...

28) Family number: 44966341 (US2011303631A)

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Title: DEVICE FOR ATTACHING A FIGURINE ONTO A BEVERAGE BOTTLE
Priority: DE200810053927 20081030 EP20090759654 20091029 WO2009EP07744 20091029
US20100740222 20100428 US20140280055 20140516

Family:	Publication number	Publication date	Application number	Application date
	DE102008053927 A1	20100512	DE200810053927	20081030
	DE502009006386 D1	20130425	DE200950006386T	20091029
	DK2342145 T3	20130527	DK20090759654T	20091029
	EP2342145 A2	20110713	EP20090759654	20091029
	EP2342145 B1	20130227	EP20090759654	20091029
	ES2408587 T3	20130621	ES20090759654T	20091029
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	US2011303631 AA	20111215	US20090740222	20091029
	US2014339190 AA	20141120	US20140280055	20140516
	US8727150 BB	20140520	US20090740222	20091029
	US9162810 BB	20151020	US20140280055	20140516
	WO10049151 A2	20100506	WO2009EP07744	20091029
	WO10049151 A3	20100916	WO2009EP07744	20091029

Probable Assignee: PCO GROUP GMBH

Assignee(s):^(std): LEMKE STEFAN ; PCO GROUP GMBH ; THOMAS GOETZ ; WETTLAUFER BERNHARD ; WETTAUFER BERNHARD

Inventor(s):^(std): LEMKE STEFAN ; THOMAS GOETZ ; WETTAUFER BERNHARD ; WETTLAUFER BERNHARD

Agent(s): THOMAS GOETZ DIPL ING; THOMAS GOETZ; LEHMANN MARIA ISABEL; LEMPIA SUMERFIELD KATZ LLC; LEMPIA SUMMERFIELD KATZ LLC

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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): [B65D41/00](#) [B65D41/04](#) [B65D51/24](#) [B65D81/36](#) (Advanced/Invention);
[B65D51/24](#) [B65D81/00](#) (Core/Invention)

CPC: [B65D41/04](#) [B65D81/366](#) [B65D2231/022](#)

European class: [B65D81/36D2](#) [L65D231/02A](#)

US class: [1/1](#) [215/228](#) [215/229](#) [215/316](#) [215/388](#) [220/212](#) [220/259.3](#) [220/288](#) [220/780](#) [446/391](#)

[Classification Explorer](#)

Cited documents: WO05060359 A2, WO0189952 A1, US7025653 BA, US6877626 BB, US6758358 BA, US5711446 A, US5518143 A, US5509551 A, US5502981 A, US4938395 A, US2546122 A, US2009184083 AA, US2009145874 AA, FR386710 A, EP2105388 A1,

Forward Citations: USD755627, USD734668, US9770667, US2015048002, US2013334167,

Abstract:

Source: US2011303631A The invention concerns a device for the attachment of a figurine with a cylindrical base part onto a beverage bottle. Furthermore, the invention concerns a combination of such a device and a figurine as well as a beverage bottle made of plastic, which forms a sales unit with such a device and such a figurine. In order to enable the figurine to be joined separably to the beverage bottle to form a sales unit in a simple, aesthetical and sales-promoting manner, the device according to the invention comprises a body having means for separable attachment of the figurine and having a recess for holding a screw cap and/or a neck part provided with an outside thread of the beverage bottle.

29) Family number: 28181033 (US2002022099A)

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Title: ENHANCED OXYGEN–SCAVENGING POLYMERS, AND PACKAGING MADE THEREFROM

Priority: EP19990905677 19990202 US19980018217 19980203 US20000745010 20001220
 US19990241598 19990202 US19980169439 19981009 US19990236498 19990126
 US20080022319 20080130 WO1999US02312 19990202 US20030647276 20030826
 US20040850573 20040519 US20010824302 20010402 US20020268933 20021011
 US20120349069 20120112

Family:

Publication number	Publication date	Application number	Application date
AR014534 AA	20010228	AR1999P100448	19990203
AT528346 E	20111015	AT19990905677T	19990202
AU199925784 A1	19990816	AU19990025784	19990202
BRPI9909412 A	20001212	BR1999PI09412	19990202
BRPI9909412 B1	20100824	BR1999PI09412	19990202
CA2319537 AA	20000731	CA19992319537	19990202
CL1999000177 A1	19990907	CL19990000177	19990203
CO5070686 A1	20010828	CO19990005571	19990202
DE69943777 D1	20111208	DE19996043777	19990202
EP1054925 A2	20001129	EP19990905677	19990202
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US2002022099 AA	20020221	US20010824302	20010402
US2002037377 AA	20020328	US20000745010	20001220
US2003138578 AA	20030724	US20020268933	20021011
US2004043172 AA	20040304	US20030647276	20030826
US2005181156 AA	20050818	US20040850573	20040519
US2008153939 AA	20080626	US20080022319	20080130
US2012183709 AA	20120719	US20120349069	20120112
US8097662 BB	20120117	US20080022319	20080130
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WO9938914 A2	19990805	WO1999US02312	19990202
WO9938914 A3	20000615	WO1999US02312	19990202
WO9938914 C2	20000720	WO1999US02312	19990202
ZA9900816 A	19990802	ZA19990000816	19990202

Probable Assignee: GRAHAM PACKAGING PET TECHNOLOGIES INC**Assignee(s):^(std):** ADAMS SR RONALD ; AGRAWAL AMIT S ; BARKER KEITH ; CONTINENTAL PET TECHNOLOGIES ; CONTINENTAL PET TECHNOLOGIES INC ; ADAMS RONALD ; SCHMIDT STEVEN L ; LYNCH BRIAN ; GRAHAM PACKAGING PET TECH**Assignee(s):** REYNOLDS GROUP HOLDINGS INC ; GRAHAM PACKAGING CO LP ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS ; GRAHAM PACKAGING PET TECHNOLOGIES INC FLORENCE ; GRAHAM PACKAGING PET TECHNOLOGIES INC ; ADAMS RONALD SR ; DEUTSCHE BANK AG ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH AG ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH SECOND LIEN CO ; BANK OF NEW YORK MELLON**Inventor(s):^(std):** ADAMS RONALD ; ADAMS RONALD BARKER KEITH ; ADAMS RONALD SR ; ADAMS SR RONALD ; AGRAWAL AMIT ; AGRAWAL AMIT S ; AMIT S AGRAWAL ; BARKER KEITH ; BRIAN LYNCH ; KEITH BARKER ; L SCHMIDT STEVEN ; LYNCH BRIAN ; RONALD ADAMS ; SCHMIDT STEVEN ; SCHMIDT STEVEN L ; STEVEN L SCHMIDT**Inventor(s):** SCHMIDT STEVEN L BEDFORD ; LYNCH BRIAN MERRIMACK ; BARKER KEITH ADAMS RONALD ; BARKER KEITH CANDIA ; AGRAWAL AMIT S MERRIMACK ; ADAMS RONALD GOFFSTOWN ; ADAMS RONALD AGRAWAL AMIT S

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OGILVY RENAULT LLP SENCRL SRL; SARGENT; JOSE ANTONIO LLOREDA; RUSCHKE MADGWICK SEIDE AND KOLLEGEN PATENTANWALTE PATENT ATTORNEY UK PARTG MBB; JENKINS PETER DAVID; KUDIRKA AND JOBSE LLP; RISSMAN JOBSE HENDRICKS AND OLIVERIO LLP; RISSMAN HENDRICKS AND OLIVERIO LLP

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

International class
(IPC 8-9): A23B7/00 B29C49/06 B29C49/08 B29D9/00 B32B27/08 B32B27/18 B32B27/34 B32B33/00 B65D65/38 B65D81/26 B65D85/72 C08G69/46 C08G69/48 C08K3/00 C08K3/08 C08K3/10 C08K5/00 C08K5/098 (Advanced/Invention); B29C49/06 B29C49/08 (Advanced/Non-Invention); B32B B65D C08G C08J (Subclass/Invention)

International class
(IPC 1-7): B29D9/00 B32B B32B1/02 B32B27/18 B32B27/34 B32B33/00 B65D B65D1/00 B65D65/38 B65D81/26 C08G C08G69/46 C08G69/48 C08J C08K3/00 C08K3/08 C08K5/00 C08K5/098 C08L77/00

CPC: Y10T428/1352 Y10T428/1338 Y10T428/1355 Y10T428/1359 Y10T428/1379 A23L3/3436 C08K5/098 C08K2201/012 C08K3/08 B29B2911/14053 B29B2911/14066 B29B2911/1408 B29B2911/14093 B29B2911/1412 B29B2911/14126 B29B2911/14146 B29B2911/14153 B29C49/06 B29C49/08 B29K2067/00 B29K2995/0025 C08K2003/0843 B32B27/08 B32B27/32 B32B27/36 B32B2307/518 B32B2439/70 B32B27/18 B32B27/34 B32B33/00

European class: A23L3/3436 B32B27/18 B32B27/34 B32B33/00 C08K3/08 C08K5/098 L29B911/14B4B L29B911/14B4D L29B911/14B4F L29B911/14B4H L29B911/14B4L2B L29B911/14B4L2B2 L29B911/14B4N2B L29B911/14B4N2B2 L29C49/06 L29C49/08 L29K67/00 L29K995/00E5 M08K201/012 M08K3/08H

US class: 428/35.3 428/35.300S 428/35.7 428/35.700P 428/35.700S 428/35.8 428/35.800P 428/35.800S 428/35.9 428/35.900P 428/36.6 523/100 523/100S 524/435 524/606

[Classification Explorer](#)

Cited documents: WO9813266, WO9618686 A1, WO9618685 A1, WO9409069, WO9000578 A1, WO9000504 A1, USRE29340 E, US8097662 BB, US6509436 BA, US6506463 BA, US6365247 BA, US6239210 BA, US6083585 A, US5952066 A, US5866649 A, US5820956 A, US5776361 A, US5759653 A, US5736616 A, US5700554 A, US5660761 A, US5641825 A, US5639815 A, US5627239 A, US5576415 A, US5539078 A, US5529833 A, US5506014 A, US5498364 A, US5492742 A, US5425896 A, US5364555 A, US5352499 A, US5350622 A, US5346644 A, US5314987 A, US5310497 A, US5302430 A, US5281360 A, US5246753 A, US5239016 A, US5211875 A, US5202052 A, US5194478 A, US5159005 A, US5077111 A, US5068136 A, US5049624 A, US5034252 A, US5028462 A, US5028226 A, US5021515 A, US5012515 A, US4983432 A, US4980211 A, US4957980 A, US4908272 A, US4818782 A, US4800129 A, US4728549 A, US4702966 A, US4567227 A, US4535901 A, US4501781 A, US4500668 A, US4401805 A, US4398642 A, US4392804 A, US4261473 A, US4237034 A, US4206100 A, US4198792 A, US4172069 A, US4104466 A, US4101720 A, US4048361 A, US4038228 A, US4018746 A, US3686069 A, US3586514 A, US29340 A, JPS5987132, JPS58197050, JPS58160344, JPS57185349, JPS53125460, JPS4953945, JPS4820220, JP59087132 A2, JP58197050 A2, JP58160344 A2, JP57185349 A2, JP53125460 A2, JP49053945 A2, JP48020220 A2, JP48020220 A2, JP1272660 A2, GB2212102 A1, GB2119741 A1, GB1469396 A, GB1146157 A, FR1522109 A, EP0527903 B1, EP0527902 B1, EP0520257 A2, EP0519616 A1, EP0507207 A2, EP0454437 A1, EP0451762 A2, EP0394751 A2, EP0380319 A1, EP0367835 A1, EP0301719 A1, EP0288972 B1, EP0212339 A2, EP0186154 A2, EP0174265 A2, EP0083826 A1, EP0033520 A2, EP0033520 A1, DE2643204 A1, DE2341895 A1, DE1933997 A1, DE1570609 B2, DE1570609 A1, AU3497699 A1, AU199934976 A1,

Forward Citations: WO14138362, WO14138360, WO14065858, WO13097937, WO13097936, WO11011148, WO10096430, WO09130200, WO06124200, WO0134479, USD801814, USD769720, USD761656, USD760590, USD758526, USD734154, USD732391, USD730735, USD725472, USD725471, USD705659, USD702553, USD698651, USD697407, USD697404, USD696946, USD696116, USD694111, USD688949, USD686079, USD686078, US9707732, US9676646, US9650169, US9643746, US9637300, US9617375, US9522773, US9463103, US9370916, US9352881, US9340316, US9211993, US9068113, US9018284, US8921487, US8822001, US8697208, US8551589, US8343996, US8337968, US8309622, US8232402, US8192676, US8137373, US8133250, US7993696, US7866496, US7807270, US7717057, US7658881, US7591831, US7588808, US7560151, US7521523, US7517353, US7494605, US7384690, US7308991, US7244484, US7238300, US7052628,

US7052628, US6933055, US6828370, US6777479, US6737464, US6713547, US6664320, US6610772, US6610215, US6596803, US6586500, US6548587, US6486254, US6486253, US2016250795, US2015197441, US2013313283, US2013037580, US2012241406, US2012219670, US2012183709, US2012034355, US2011303685, US2011187028, US2011172363, US2011056947, US2011040012, US2010331363, US2010151088, US2010130540, US2009253655, US2008076841, US2008071012, US2008064796, US2008061474, US2007293539, US2007275198, US2007232763, US2007110933, US2006194821, US2006106060, US2006099362, US2006024459, US2005288298, US2005279967, US2005277629, US2005272722, US2005272068, US2005181155, US2005139570, US2005103802, US2005020803, US2004074904, US2004068055, US2003039779, RU2495063, EP2398712, EP2398712, EP2319453, EP2266501, EP2112201, EP1954624, EP1892262, EP1627011, CN104812851, CN102470600, CN102470600,

Abstract:

Source: US2002022099A Oxygen-scavenging polymers and packaging for holding oxygen-sensitive products. A heat treatment process has been found to significantly increase the oxygen-scavenging performance of the polymer. The enhanced scavenging polymer can be effectively incorporated into various packaging, including transparent multilayer containers for beer and juice. In one embodiment, a multilayer package made from the scavenger provides an actual reduction in oxygen content of a contents of the package, over a long period of time (e.g., 24 weeks). The package can be stored unfilled for an extended period (without significant loss of scavenging capability) and will scavenge substantially immediately upon filling with a liquid product. The package may incorporate a relatively low weight percentage of the scavenger, thus providing enhanced scavenging in a cost-effective manner.

0) US2005161348A – CAPSULE CONTAINING A MIXER SUBSTANCE FOR BOTTLE...

30) Family number: 29580957 (US2005161348A)

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Title: CAPSULE CONTAINING A MIXER SUBSTANCE FOR BOTTLES CONTAINING PRESSURISED LIQUIDS

Priority: EP20020733229 20020430 WO2002IT00283 20020430

Family:	Publication number	Publication date	Application number	Application date
	AT344765 E	20061115	AT20020733229T	20020430
	AU2002304300 AA	20031117	AU20020304300	20020430
	BRPI0215725 A	20050222	BR2002PI15725	20020430
	CA2482390 AA	20041008	CA20022482390	20020430
	CA2482390 C	20100525	CA20022482390	20020430
	DE60215977 D1	20061221	DE20026015977	20020430
	DE60215977 T2	20070705	DE20026015977T	20020430
	EP1499535 A1	20050126	EP20020733229	20020430
	EP1499535 B1	20061108	EP20020733229	20020430
	ES2275874 T3	20070616	ES20020733229T	20020430
	HK1073636 A1	20070427	HK20050106260	20050722
	HK1073636 A3	20051014	HK20050106260	20050722
	MXPA04010773 A1	20050307	MX2004PA10773	20020430
	US2005161348 AA	20050728	US20020513044	20020430
	US7607549 BB	20091027	US20020513044	20020430
	WO03093128 A1	20031113	WO2002IT00283	20020430

Probable Assignee: BORMIOLI ROCCO AND FIGLIO SPA

Assignee(s):^(std): BORMIOLI ROCCO AND FIGLIO S P ; BORMIOLI ROCCO AND FIGLIO SPA ; MORINI EMILIO

Assignee(s): BORMIOLI ROCCO AND FIGLIO S P A

Inventor(s):^(std): MORINI EMILIO ; EMILIO MORINI

Agent(s): RIDOUT AND MAYBEE LLP; YOUNG AND THOMPSON

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

International class
(IPC 8-9): [B65B7/28](#) [B65D17/42](#) [B65D25/08](#) [B65D39/00](#) [B65D41/34](#) [B65D43/18](#) [B65D51/28](#)
[B65D81/32](#) [B67D5/00](#) [B67D99/00](#) (Advanced/Invention);
[B65B7/28](#) [B65D17/00](#) [B65D25/04](#) [B65D39/00](#) [B65D41/34](#) [B65D43/14](#) [B65D51/24](#)
[B65D81/32](#) [B67D99/00](#) (Core/Invention);
[B65D](#) (Subclass/Invention)

International class
(IPC 1-7): [B65D25/08](#) [B65D41/34](#) [B65D51/28](#)

CPC: [B65D41/3438](#) [B65D41/3447](#) [B65D51/285](#) [Y10S215/08](#)

European class: [B65D41/34C3](#) [B65D41/34D1](#) [B65D51/28B1C1](#)

US class: [206/219](#) [206/222](#) [215/252](#) [215/297](#) [215/DIG.8](#) [220/259.2](#) [220/259.4](#) [220/277](#) [222/145.5](#)
[222/153.02](#) [222/153.06](#) [426/115](#) [426/120](#) [53/471](#)

[Classification Explorer](#)

Cited documents: WO9838104 A1, US6705462 BB, US6372270 BA, US6165523 A, US6148996 A, US5251424 A, US5104008 A, US2073273 A, DE4410323 A1, DE29916436 U1, DE29916436,

Forward Citations:

WO16141311, WO12168523, WO12048922, WO10084176, WO07042205, WO07042204, WO06040932, USD672237, USD631351, US9758281, US9604765, US9586730, US9567142, US9527627, US9452870, US9156589, US9126731, US8887905, US8801688, US8783452, US8701906, US8523837, US8453859, US8443970, US8408389, US8403131, US8302795, US8162161, US8141700, US8083055, US7971739, US7951109, US7823723, US7748550, US7584842, US7562782, US7475774, US7347322, US7325676, US2014144794, US2014110282, US2013193010, US2012279879, US2011266171, US2011253564, US2011174642, US2011147333, US2011056904, US2011011822, US2010301002, US2010282624, US2010200536, US2010089860, US2010089776, US2009272712, US2009139951, US2009014406, US2008245683, US2008142471, US2008125704, US2008093326, US2007023299, US2007017830, US2006251771, US2006201829, US2006108314, US2006108135, JP2014061943, JP2006103781, ITTO20120506, EP2915585, EP2674371, EP1730048, CN105819090, CN104891002, CN102442473, AU2005293082,

Abstract:

Source: US2005161348A The capsule (3) comprises a lower cap (4) with a security strip (12) which inserts removably on a mouth (2) of a bottle. The upper part of the lower cap (4) is open and provided with a neck (4a) which couples with an upper cap (5), also having a security strip (13). A reservoir (8) is comprised within the upper cap (5) and has a breakable bottom (8a); the reservoir (8) also internally comprises a cutter (9). The upper cap (5) can move axially downwards with respect to the neck (4a) and the bottle, while it is prevented from moving upwards. The capsule also includes an anchoring between the reservoir (8) and the neck (4a) of the capsule when the reservoir is inserted in the neck (4a). The process comprises a stage of filling the bottle with fizzy water, a stage of hermetically closing the bottle with a capsule containing substances to be added to the fizzy water, and a stage of introducing the substances into the fizzy water before consuming the drink.

31) Family number: 43479154 (WO9812127A1)

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Title: ZERO OXYGEN PERMEATION PLASTIC BOTTLE FOR BEER AND OTHER APPLICATIONS**Priority:** US19960717370 19960923 US19970040394P 19970311 WO1997US16711 19970922**Family:**

Publication number	Publication date	Application number	Application date
<u>AU199744885 A1</u>	19980414	AU19970044885	19970922
<u>AU720102 B2</u>	20000525	AU19970044885	19970922
<u>BRPI9711523 A</u>	19990824	BR1997PI11523	19970922
<u>CA2266634 AA</u>	19990322	CA19972266634	19970922
<u>CA2266634 C</u>	20050419	CA19972266634	19970922
<u>CN1085604 C</u>	20020529	CN19971098151	19970922
<u>CN1231642 A</u>	19991013	CN19971098151	19970922
<u>CZ298276 B6</u>	20070815	CZ19990001007	19970922
<u>CZ9901007 A3</u>	20001115	CZ19990001007	19970922
<u>DE69701814 D1</u>	20000531	DE19976001814	19970922
<u>DE69701814 T2</u>	20001012	DE19976001814T	19970922
<u>DK0932561 T3</u>	20000828	DK19970943402T	19970922
<u>EP0932561 A1</u>	19990804	EP19970943402	19970922
<u>EP0932561 B1</u>	20000426	EP19970943402	19970922
<u>ES2147998 T3</u>	20001001	ES19970943402T	19970922
<u>HK1020561 A1</u>	20030117	HK19990105612	19991202
<u>IL128143 A0</u>	19991130	IL19970128143	19970922
<u>IL128143 A1</u>	20010520	IL19970128143	19970922
<u>JP2001501559 T2</u>	20010206	JP19980514920T	19970922
<u>JP3562723 B2</u>	20040908	JP19980514920T	19970922
<u>KR100516550 B1</u>	20050922	KR19997002478	19970922
<u>KR20000048561 A</u>	20000725	KR19997002478	19970922
<u>NO324048 B1</u>	20070806	NO19990001373	19990322
<u>NO991373 A</u>	19990521	NO19990001373	19990322
<u>NO991373 A0</u>	19990322	NO19990001373	19990322
<u>NZ334569 A</u>	20000825	NZ19970334569	19970922
<u>RU2189337 C2</u>	20020920	RU19990108429	19970922
<u>RU99108429 A</u>	20011210	RU19990108429	19970922
<u>WO9812127 A1</u>	19980326	WO1997US16711	19970922

Probable Assignee: BP AMOCO CORP**Assignee(s):^(std):** ACKERLEY DONALD F ; AMOCO CORP ; BARSKI ROMAN F JR ; BP CORP NORT AMERIKA INK ; CHEN STEPHEN Y ; CAHILL PAUL JAMES ; CHIANG WEILONG ; JOHNSON DAVID C ; NYDEREK WALTER M ; ROTTER GEORGE EDMUND ; BP CORP NORTH AMERICA INC ; BP AMOCO CORP**Assignee(s):** BP KORPOREJSHN NORT AMERIKA INK ; COLORMATRIX HOLDINGS INC ; BP AMOCO CORP CHICAGO ; BP NORTH AMERICA INC CORP ; BARSKI ROMAN F**Inventor(s):^(std):** ROTTER GEORGE EDMUND ; ROTTER DZHORDZH EHDUND ; NYDEREK WALTER M ; NAJDEREK UOLTER M ; KEHKHILL POL DZHEJMS ; JOHNSON DAVID C ; EHKERLEJ DONALD F ; DZHONSON DEHVID S ; CHEN STIVEN I ; CHEN STEPHEN Y ; CAHILL PAUL JAMES ; BARSKI ROMAN F JR ; BARSKI ROMAN F DZHR ; BARSKI JR ROMAN F ; ACKERLEY DONALD F ; ROTTER EDMUND ; NYDEREK M ; NYDERECK WALTER M ; JOHNSON C ; CHEN Y ; CAHILL JAMES ; BARSKI ROMAN F ; BARSKI F ; ACKERLEY F ; CHIENG UEJLONG ; CHIANG WEILONG

Inventor(s): WALTER M NYDERECK ; DONALD F ACKERLEY ; DAVID C JOHNSON ; GEORGE EDMUND ROTTER ; WEILONG CHIANG ; WALTER M NYDEREK ; STEPHEN Y CHEN ; ROMAN F BARSKI JR ; PAUL JAMES CAHILL

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOWLING LAFLEUR HENDERSON LLP; REINHOLD COHN AND PARTNERS; GE EHRLICH 1995 LTD

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

International class
(IPC 8-9): B29C49/22 B32B27/36 B65D1/00 B65D1/02 B65D77/30 B65D81/26 (Advanced/Invention);
B29C49/22 B65D1/00 B65D81/26 (Advanced/Non-invention)

International class
(IPC 1-7): B29C49/22 B32B27/36 B65D1/02 B65D1/09 B65D65/40 B65D77/30 B65D81/26

CPC: Y10T428/1352 B32B27/36 B29B2911/14053 B29B2911/14066 B29B2911/1408 B29B2911/14093 B29B2911/1412 B29B2911/14126 B29B2911/14146 B29B2911/14153 B65D1/0215 B65D81/266 B32B1/04

European class: B32B27/36 B65D1/02B1 B65D81/26F L29B911/14B4B L29B911/14B4D L29B911/14B4F L29B911/14B4H L29B911/14B4L2B L29B911/14B4L2B2 L29B911/14B4N2B L29B911/14B4N2B2

[Classification Explorer](#)

Cited documents: WO9640799 A1, WO9618686 A1, US5310497 A, US5211875 A, US5021515 A,

Forward Citations: WO11145383, WO05030854, WO03068888, WO03068888, WO0249923, WO0249923, WO0134479, WO0110947, WO0037321, WO0037321, US8889821, US8110261, US7022258, US6659298, US6455620, US6454965, RU2502758, JP2011157411, JP2010537901, JP2003063542, JP2003054591, EP1892262, EP1283234, DE102005018245, CN104379652, CN104379652, AU766414,

Abstract:

Multilayered plastic bottles are disclosed having oxygen scavenging capacity sufficient to maintain substantially zero or near zero (depending on product requirements) presence of oxygen in the bottle cavity for the planned shelf life of the bottled product under specified storage conditions. The bottles feature a layer comprised of oxygen scavenger copolyester and may be used for bottling beer and other products requiring nearly total absence of oxygen for the duration of the target product shelf life.

32) Family number: 30945257 (US3325860A)

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Title: Moulding and sealing machines
Priority: DE1963H050689 19631030 US19640389602 19640814 US19690828589 19690528
Family:

Publication number	Publication date	Application number	Application date
AT278661 B	19700210	AT19640008776	19641015
BE655009 A	19650215		19641029
CA922062 A1	19730306	CA19700082371	19700511
CH415424 A	19660615	CH19640013825	19641026
CH527687 A	19720915	CH19700007899	19700527
DE1272807 B	19680711	DE1963H050689	19631030
DE1272807 C	19680711	DE1963H050689	19631030
DE2026964 A1	19701203	DE19702026964	19700527
DE2026964 C2	19821223	DE19702026964	19700527
DK112847 B	19690120	DK19640005309	19641028
GB1041548 A	19660907	GB19640041562	19641012
GB1307735 A	19730221	GB19700024939	19700522
JP50008746 B4	19750407	JP19700045561	19700528
NL139704 B	19730917	NL19640012274	19641021
NL6412274 A	19650503	NL19640012274	19641021
SE329561 B	19701012	SE19640012903	19641027
US3325860 A	19670620	US19640404600	19641019
US3330006 A	19670711	US19640389602	19640814
US3597793 A	19710810		19690528
USRE27155 E	19710720		19690409

Probable Assignee: AUTOMATIC LIQUID PACKAGING

Assignee(s):^(std): AUTOMATIC LIQUID PACKAGING ; GERHARD HANSEN ; HANSEN G ; HANSEN GERHARD ; GERHARD HANSEN OEFFINGEN BONDSREPUBLIC DUTSLAND ; AMERICAN CAN CO

Assignee(s): AMERICAN CAN COMPANY ; HENRY KOMENDOWSKI ; AUTOMATIC LIQUID PACKAGING INC ; AUTOMATIC LIQUID PACKAGING INC ELK GROVE VILLAGE I ; AUTOMATIC LIQUID PACKAGING INC ELK GROVE VILLAGE ILL US ; GERHARD H WEILER

Inventor(s):^(std): WILLIAM JENKINS CHARLES ; WEILER G H ; HANSEN GERHARD ; HANSEN G ; GERHARD HANSEN ; KOMENDOWSKI H ; HENRY KOMENDOWSKI ; GERHARD HANS WEILER ; WEILER GERHARD HANS ; WEILER GERHARD H ; KOMENDOWSKI HENRY

Inventor(s): HANS WEILER GERHARD ; JENKINS CHARLES WILLIAM ; GERHARD H WEILER ; WEILER GERHARD HANS DES PLAINES ILL ; KOMENDOWSKI HENRY EVANSTON ILL ; KOMENDOWSKI HENRY EVANSTON ILL US ; WEILER GERHARD HANS DES PLAINES ILL US

International class
^{(IPC 8-9):} [B26D1/00](#) [B29B11/10](#) [B29C45/14](#) [B29C49/00](#) [B29C49/04](#) [B29C49/48](#) [B29C49/50](#) [B29C49/58](#) [B29C49/76](#) [B29C65/00](#) [B29C69/00](#) [B65B3/02](#) [B65D1/02](#) [B67B5/00](#) ^{(Advanced/Invention):}
[B26D1/00](#) [B29B11/00](#) [B29C45/14](#) [B29C49/00](#) [B29C49/04](#) [B29C49/42](#) [B29C49/48](#) [B29C49/50](#) [B29C49/58](#) [B29C65/00](#) [B29C69/00](#) [B65B3/00](#) [B65D1/02](#) [B67B5/00](#) ^(Core/Invention)

International class
^{(IPC 1-7):} [B29C1/00](#) [B29C17/04](#) [B29C17/07](#) [B29D23/03](#) [B29F1/022](#) [B65B3/02](#) [B65B47/08](#) [B65B47/10](#) [B65D1/00](#) [B65D17/24](#) [B65D41/32](#) [B65F3/00](#)

CPC: [B29C49/48](#) [B65B3/022](#) [Y10S264/30](#) [Y10S425/005](#) [Y10S425/806](#) [B67B5/00](#) [B26D1/00](#) [B29C45/14598](#) [B29C47/0023](#) [B29C47/0026](#) [B29C47/0033](#) [B29C47/0054](#) [B29C49/4817](#) [B29C49/76](#) [B29C69/00](#) [B65D1/0238](#) [B65D2501/0036](#)

European class: B26D1/00 B29C45/14K B29C49/48 B29C49/48B B29C49/76 B29C69/00 B65B3/02B B65D1/02D1A B67B5/00 L29C47/00J10 L29C47/00J6 L29C47/00J7 L29C47/00L7 L65D501/02Y1C

US class: 249/59 264/524 264/526 264/529 264/533 264/542 264/DIG.30 425/125 425/129.1 425/317 425/326.1 425/405.1 425/408 425/524 425/525 425/526 425/527 425/532 425/542 425/806 425/DIG.5 53/140 53/348 53/561

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Abstract:

Source: US3325860A ABSTRACT OF THE DISCLOSURE A machine for molding, rilling and sealing containers in one operation from a tube of thermoplastic material and having relatively movable mold parts.

33) Family number: 31368335 (US2004236066A)

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Title: SLOW-CRYSTALLIZING POLYESTER RESINS

Priority: US20030472309P 20030521 US20040540520P 20040129 US20040559983 20040406
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Family:

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<u>WO07062384 A3</u>	20071101	WO2006US61187	20061122	

Probable Assignee: DAK AMERICAS MISSISSIPPI INC

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Assignee(s): FIBER IND ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS AGENT AS ; CIT GROUP BUSINESS CREDIT INC ; WELLMAN CINC ; WILMINGTON TRUST CO ; WELLMAN INC AND FIBER IND ; WELLS FARGO FOOTHILL LLC AS AGENT ; WELLMAN INC AND FIBER IND INC ; WELLS FARGO FOOTHILL LLC AGENT AS ; FIBER IND INC

Inventor(s):^(std): ANDREWS MARION ; ANDREWS MARION L ; BILLY MACK HUMELSINE ; CARL STEVEN NICHOLS ; DAVID EUGENE THOMPSON ; EDWARDS WALTER L ; EDWARDS WALTER L ANDREWS MARIO ; GRIFFITH SHARON ; GRIFFITH SHARON S ; GRIFFITH SHARON SUE ; HUMELSINE BILLY ; HUMELSINE BILLY M ; HUMELSINE BILLY MACK ; MACK BILLY ; MOORE TONY ; MOORE TONY C ; MOORE TONY CLIFFORD ; MOORE TONY CLIFFORD THOMPSON D ; NICHOLS CARL ; NICHOLS CARL S ; NICHOLS CARL STEVEN ; SCHIVAONE ROBERT ; SCHIVAONE ROBERT JOSEPH ; SHARO SCHIAVONE ROBERT JOSEPH ; SHARON SUE GRIFFITH ; THOMPSON DAVID ; THOMPSON DAVID E ; THOMPSON DAVID EUGENE ; SCHIAVONE ROBERT J ; SCHIAVONE ROBERT JOSEPH ; ROBERT JOSEPH SCHIVAONE ; THOMSON DAVID E ; THOPSON DAVID EUGENE ; TONY CLIFFORD MOORE

Inventor(s): WALTER L EDWARDS ; THOMSON DAVID EUGENE ; SCHIAVONE ROBERT ; SCHIAVONE ROBERT JOSEPH HUMELSINE BILLY MACK ; SCHIAVONE ROBERT JOSEPH HUMELSINE BILLY MACK NICHOLSON ; THOMSON DAVID ; ROBERT JOSEPH SCHIAVONE ; MOORE TONY CLIFFORD THOMPSON DAVID EUGENE ; MOORE TONY CLIFFORD THOMPSON DAVID EUGENE GRIFFITH ; MORRE TONY CLIFFORD ; MARION L ANDREWS ; EDWARDS WALTER L ANDREWS MARION L ; DAVID EUGENE THOPSON ; EDWARDS WALTER ; CHIVAONE ROBERT JOSEPH

Agent(s): SIM AND MCBURNEY; BANKES STEPHEN CHARLES DIGBY; TER MEER STEINMEISTER AND PARTNER; TOMITA HIROYUKI; KOISO TAKAKO; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; CHIBA AKIO; SUMMA AND ALLAN PA; SUMMA ALLAN AND ADDITON PA; SUMMA ADDITON AND ASHE PA; SUMMA ALLAN AND ADDITION PA; SUMMA ALLEN AND ADDITON PA; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT 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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class
(IPC 8-9): B29D22/00 B29D23/00 B32B1/02 B32B1/08 B32B15/02 B32B15/08 B32B19/00
B32B27/08 B32B27/36 B65D1/00 B65D25/00 C08F20/00 C08G18/80 C08G63/00
C08G63/02 C08G63/183 C08G63/20 C08G63/672 C08G63/685 C08G63/78 C08G63/80
C08G63/82 C08G63/85 C08G64/00 C08G73/00 C08G73/16 C08K3/00 C08K3/02
C08K3/04 C08K3/08 C08K3/22 C08L67/02 (Advanced/Invention);
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International class
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US class: 206/524.6 206/524.600S 264/176.6 264/219 428/35.7 428/35.700P 428/35.8 428/35.800P
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Abstract:

Source: US2004236066A The present invention relates to slow-crystallizing polyethylene terephthalate resins that possess a significantly higher heating crystallization exotherm peak temperature (TCH) as compared with those of conventional antimony-catalyzed polyethylene terephthalate resins. The polyethylene terephthalate resins of the present invention are especially useful for making hot-fill bottles having exceptional clarity.

34) Family number: 54554215 (US2014373485A)

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Title: OXYGEN-ABSORBING RESIN COMPOSITION AND OXYGEN-ABSORBING MULTILAYER BODY USING SAME, AND MOLDED ARTICLE AND MEDICAL CONTAINER USING THESE

Priority: JP20120025177 20120208 JP20120168304 20120730 JP20130007769 20130118
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Family:

Publication number	Publication date	Application number	Application date
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<u>WO13118882 A1</u>	20130815	WO2013JP53121	20130208	

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Assignee(s):^(std): MITSUBISHI GAS CHEMICAL CO ; MITSUBISHI GAS CHEMICAL CO INC

Inventor(s):^(std): ARAKAWA SHOTA ; IKEDA SHINICHI ; ITO FUMIHIRO ; IWAMOTO SHINPEI ; KASHIBA TAKASHI ; OGAWA SHUN ; OGAWA TAKASHI ; OKADA SATOSHI ; TAKAGI TOSHIYA ; USUDA KENICHIRO

Agent(s): HOFFMANN EITLE; INABA YOSHIYUKI; GREENBLUM AND BERNSTEIN PLC; INABA YOSHIYUKI ET AL

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

International class
(IPC 8-9): A23B7/00 A23B7/148 A23F3/16 A23L2/02 A23L2/44 A23L3/00 A23L3/3436 A61J1/00 A61J1/05 A61J1/14 A61J1/16 A61K9/70 A61M5/28 A61M5/31 B01J31/04 B32B1/02 B32B1/08 B32B27/00 B32B27/08 B32B27/10 B32B27/18 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B65B25/00 B65D1/00 B65D1/02 B65D1/40 B65D35/10 B65D5/42 B65D65/02 B65D65/40 B65D75/24 B65D81/24 B65D81/26 B67B7/92 C08F210/00 C08F210/02 C08F220/10 C08F220/16 C08F8/00 C08F8/06 C08F8/14 C08G63/183 C08K3/08 C08K3/10 C08K5/09 C08K5/098 C08L23/00 C08L23/02 C08L23/08 C08L23/26 C08L33/06 C08L33/08 C08L33/10 (Advanced/Invention);
A23L3/3436 (Advanced/Non-invention)

CPC: C08F8/06 B65B25/00 B65D81/267 A61M5/3129 A61J1/14 A61J1/16 A61M2005/3117 B32B27/06 C08L2201/14 C08L2203/10 B65D1/40 B65D5/42 A61J1/1468 B32B27/08 B32B27/10 B32B27/18 B32B27/325 B32B27/327 B32B27/34 B32B27/36 B32B2250/00 B32B2250/02 B32B2250/05 B32B2250/24 B32B2250/242 B32B2307/7242 B32B2307/7244 B32B2307/726 B32B2307/7265 B32B2307/74 B32B2439/70 B32B2439/80 B32B2553/00 B65D1/0215 B65D81/24 C08F2800/20 C08F2810/50 C08F210/02 C08F216/06 C08F220/14 C08F210/16 C08F210/06 Y10T428/31935 B32B27/32 B65D81/26 C08F8/14

US class: 215/12.2 220/62.22 229/5.84 428/522 525/330.3 53/428 604/199

[Classification Explorer](#)

Cited documents: WO9948963 A2, WO8702389 A2, US7097890 BA, US7056565 BA, US6254804 BA, US6254803 BA, US6063503 A, US5700554 A, US5529833 A, US5350622 A, US5346644 A, US5211875 A, US5021515 A, US4966699 A, US2009297979 AA, US2004267194 AA, US2003235708 AA, US2002102424 AA, US2002022144 AA, JPS51136845 A2, JP9234832 A2, JP9234832, JP9110790 A2, JP8127641 A2, JP5115776 A2, JP5115776, JP51136845 A2, JP51136845, JP2500846 T2, JP2013177557 A2, JP2013177557, JP2011236285 A2, JP2011236285, JP2011168764 A2, JP2011168764, JP2011168674 A2, JP2011168674, JP2011136761 A2, JP2011136761, JP2011132502 A2, JP2011132502, JP2011126270 A2, JP2011126270, JP2011123463 A2, JP201013627, JP2010013627 A2, JP2010013627, JP2009108153 A2, JP2007277440 A2, JP2007277440, JP2007164145 A2, JP2007164145, JP2007140289 A2, JP2007140289, JP2004323058 A2, JP2004229750 A2, JP2003534413 T2, JP2003534413, JP2003521552 T2, JP2003521552, JP2003335380 A2, JP2003335380, JP2001354817 A2, JP2001354817, JP2001252560 A2, JP2001252560, JP1997110790 A2, JP1259870 A2, EP0244458 A1, CN1430627 A, CN1301280 A, CN1266071 A, CN1266071, CN101252984 A,

Forward Citations: WO16090801, WO16080347, WO15119230, WO15115550, US9637604, US9428692, US2015232251, KR20160118265, KR200470335, JP6064616, JP6048175, JP2014148076, JP2014140968, JP2007132481, EP2891519,

Abstract:

Source: US2014373485A Provided is a novel oxygen-absorbing resin composition having excellent

oxygen-absorbing performance and suppressing odor generation after absorption of oxygen even if a material responsive to a metal detector is not used. Further provided is an oxygen-absorbing resin composition having excellent oxygen-absorbing performance in a wide range of humidity conditions from low humidity to high humidity. Such an oxygen-absorbing resin composition contains a copolymerized polyolefin compound and a transition metal catalyst, in which the copolymerized polyolefin compound contains at least one constituent unit having a tetralin ring.

0) US2003042221A – POLYESTER BEER BOTTLE

35) Family number: 23313853 (US2003042221A)

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Title: POLYESTER BEER BOTTLE

Priority: CA20022376378 20020315 CN20012055517U 20010903 IT2002TO00099 20020205
WO2002CN00033 20020122 CN20012076296U 20011204

Family:

Publication number	Publication date	Application number	Application date
AU2002227852 AA	20030318	AU20020227852	20020122
AU2002227852 BB	20071101	AU20020227852	20020122
BRMU8203398 U	20040817	BR2002MU03398U	20020122
CA2376378 AA	20030303	CA20022376378	20020315
CA2376378 C	20080527	CA20022376378	20020315
CN2570208 Y	20030903	CN20012076296U	20011204
CZ14315 U1	20040714	CZ20030014861U	20020122
DE20206032 U1	20020718	DE20022006032U	20020417
FR2829108 A3	20030307	FR20020005289	20020426
FR2829108 B3	20040305	FR20020005289	20020426
GB200206120 A0	20020424	GB20020006120	20020315
GB2379206 A1	20030305	GB20020006120	20020315
GB2379206 B2	20051102	GB20020006120	20020315
IN00144MN2004 A	20050429	IN2004MN00144	20040227
IN206335 B	20081024	IN2004MN00144	20040227
ITTO20020099 A1	20020506	IT2002TO00099	20020205
ITTO20020099 U0	20020517	IT2002TO00099U	20020517
ITTO20020099 U1	20031117	IT2002TO00099U	20020517
JP3088726 U	20020927	JP20020001512U	20020320
KR200277927 Y1	20020620	KR20020008409U	20020321
MY129033 A	20070330	MY20020001054	20020325
NZ528356 A	20050826	NZ20020528356	20020122
RU27568 U1	20030210	RU20020106690U	20020327
US2003042221 AA	20030306	US20020119374	20020409
US6659298 BB	20031209	US20020119374	20020409
WO03020600 A1	20030313	WO2002CN00033	20020122
ZA200202465 A	20030324	ZA20020002465	20020327

Probable Assignee: ZHUHAI ZHONG FU PET BEER BOTTLE CO LTD

Assignee(s):^(std): FONDERIE 2A S R L ; WONG CHOI FAI ; ZHUHAI ZHONG FU PET BEER BOTTL ;
ZHUHAI ZONG FU PET BEER BOTTLE ; ZHUHAI ZHONGFU POLYESTER BEER ;
ZHUHAI ZHONG FU PET BEER BOTTLE CO LTD ; ZHUHAI ZHONGFU PET BEER
BOTTLE CO LTD

Assignee(s): ZHUHAI ZHONGFU POLYESTER BEER BOTTLE CO ; ZHUHAI ZHONGFU
POLYESTER BEER BOTTLE CO LTD ; ZHUHAI ZONG FU PET BEER BOTTLE CO LTD
; ZHUHAI ZONG FU PET BEER BOTTLE CO LTD ZHUHAI ; ZHUHAI ZHONG FU PET
BEER BOTTLE CO ; WONG CHIO FAI

Inventor(s):^(std): CHOI FAI WONG ; DUPRE FRANCO ; HUANG ZHAOHUI ; ILOTTE VINCENZO ; WONG
CHIO FAI ; WONG CHOI FAI

Inventor(s): ZHAOHUI HUANG ; CHIO FAI WONG

Agent(s): PHILLIPS ORMONDE FITZPATRICK; ROBIC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CO CR
CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR
HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML

MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD
TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class
(IPC 8-9): B29C49/02 B65D1/00 B65D1/02 B65D23/00 B65D85/72 (Advanced/Invention);
B65D1/02 (Advanced/Non-invention);
B29C49/02 B65D1/02 B65D85/72 (Core/Invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): B29C49/02 B65D B65D1/02 B65D1/40 B65D23/00 B65D81/20 B65D85/72 B65D90/02

CPC: B65D1/0276

European class: B65D1/02D2 B65D1/02D2C

US class: 215/371 215/373 220/606 220/609

[Classification Explorer](#)

Cited documents: WO9812127 A1, WO9006263 A1, US6299007 BA, US6153145 A, US5735420 A, US5236097 A, US5198248 A, US5072841 A, US4894268 A, US4755404 A, US4465199 A, US4412627 A, US4231483 A, US3720339 A, US3511401 A, GB2094259 A1, EP0957030 A2, EP0947429 A1, EP0494098 A1, DE2713879 A1, CN97198151, CN21133245 A, CN2113245 U, CN1231642 A, CN1114625 A,

Forward Citations: WO09092936, USD763694, USD723921, USD706634, USD546183, US9744617, US9649718, US9610546, US9572918, US9475709, US9193587, US9095823, US9067811, US8495854, US8424709, US8361321, US8282876, US7784251, US7510391, US7390187, US7150371, US6939498, US2010285256, US2010012617, US2007087076, US2007087074, US2007023978, US2003084648, US2002160136,

Abstract:

Source: US2003042221A A polyester beer bottle comprising a bottleneck, a body and a bottom of the bottle, which are once blown and shaped with polyester blank, in which arc portion in a vertical section extended from the joint of shaped bottom and body of the bottle to a plane of the bottom has a radius ranging over 15–25 mm; an arc radius in a vertical section of the concave quaquersal portion projecting inwards at a bottom surface of said bottle is in a range of 20–35 mm, and the distance between a top of the concave quaquersal portion to the plane of bottom is in a range of 7–15 mm; an outward projecting support flange portion is formed at the joint between said concave quaquersal portion and the bottom plane of the bottle, a height of the flange portion is in a range of 0.1–5 mm; and a side-face of the bottle is connected to said concave quaquersal portion at the bottom of the bottle via the transition arc portions respectively having different radius, in which the radius of first transition arc is in a range of 3–8 mm, and the second transition arc radius is in a range of 0.5–2 mm. The ratio between the maximum outer diameter of the bottom of the bottle and the diameter of the flange portion on said bottom plane of the bottle is in a range of 1.2–1.7.

36) Family number: 33033867 (US2007017089A)

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Title: BOTTLE MANUFACTURING EQUIPMENT
Priority: EP20030818530 20030828 KR20060003662 20060222 WO2003JP10949 20030828
Family:

Publication number	Publication date	Application number	Application date
AU2003261796 AA	20050329	AU20030261796	20030828
AU2003261796 BB	20100121	AU20030261796	20030828
CA2536841 AA	20060223	CA20032536841	20030828
CA2536841 C	20110104	CA20032536841	20030828
CN100402181 C	20080716	CN20038027182	20030828
CN1859989 A	20061108	CN20038027182	20030828
DE60344386 D1	20130822	DE20036044386	20030828
EP1661637 A1	20060531	EP20030818530	20030828
EP1661637 A4	20120118	EP20030818530	20030828
EP1661637 B1	20130626	EP20030818530	20030828
ES2427634 T3	20131031	ES20030818530T	20030828
KR100982152 B1	20100914	KR20067003662	20030828
KR20060092202 A	20060822	KR20067003662	20030828
US2007017089 AA	20070125	US20060569992	20060620
US8037728 BB	20111018	US20060569992	20060620
WO05023450 A1	20050317	WO2003JP10949	20030828

Probable Assignee: UNIVERSAL CAN CORP

Assignee(s):^(std) HOSOI MASAHIRO ; MITSUBISHI MATERIALS CORP ; UNIVERSAL CAN CORP

Inventor(s):^(std) HOSOI MASAHIRO ; MASAHIRO HOSOI

Inventor(s): HOSOI MASAHIRO SUNTO GUN

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; MARKS AND CLERK; HOFFMANN EITLE
 PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; FUSTER GUSTAVO
 NICOLAS; KOREANA PATENT FIRM; DARBY AND DARBY PC; LEASON ELLIS LLP

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

International class
^{(IPC 8-9):} [B21D51/18](#) [B21D51/26](#) [B21D51/38](#) [B21J11/00](#) [B23P19/00](#) [B23P21/00](#)
[B65D1/00](#) (Advanced/Invention);
[B21D51/18](#) (Advanced/Non-invention)

International class
^{(IPC 1-7):} [B21D51/38](#) [B65D1/00](#)

CPC: [Y10T29/53322](#) [Y10T29/53443](#) [B21D51/2615](#)

European class: [B21D51/26B](#) [B21D51/38](#)

US class: [29/773](#) [29/773S](#) [29/801](#) [29/801P](#) [72/405.03](#) [72/94](#)

[Classification Explorer](#)

Cited documents: US5551274 A, US5293765 A, US4497758 A, US4113133 A, US3979448 A, US3913366
 A, SE394998 B, JP9122798 A2, JP9019731 A2, JP63230230 A2, JP63123606 A2,
 JP62064500 A2, JP61206533 A2, JP6031497 A2, JP5229545 A2, JP49789, JP49049789
 A2, JP47025977 A2, JP2003320432 A2, JP2003290855 A2, JP2003251424 A2,
 JP2003191014 A2, JP2002302194 A2, JP2002066674 A2, JP2001240188 A2,
 JP2000191006 A2, JP10263732 A2, JP10128474 A2, IT1246702 A, EP0510291 A1,
 EP0275369 B1,

Forward Citations: WO07127000, WO07123717, WO07123716, USD734154, USD725472, USD725471, USD702553, USD697407, USD697404, USD696946, USD696116, USD688949, USD686079, USD686078, US9744583, US9663846, US9643229, US9517498, US9308570, US9290329, US9132467, US8935947, US8726712, US8601843, US8505350, US8464567, US8245551, US7997111, US7963139, US7950259, US7918328, US7905130, US7886894, US7818987, US7784319, US7770425, US7464573, US2015135508, US2012255962, US2012090153, US2011164948, US2011011147, US2010116622, US2008282758, US2007251803, US2007249424, US2007227320, TWI568519, KR101505780, JP2016002595, ITVR20130175, ITVR20130174, EP2390022, EP2251114, CN104185516, CN104185516,

Abstract:

Source: US2007017089A This apparatus for producing a bottle can includes a die-ring 22 for holding bottom of a closed-end cylindrical body W, and a tool holding part disposed opposite an opening part of the closed-end cylindrical body W, having plural processing tools 32 for shaping the closed-end cylindrical body W into various forms, the die-ring 22 and the tool holding part being held so that each of them can rotate relatively and move in the direction of a center line of the closed-end cylindrical body W relatively to each other, each of the processing tools shaping the closed-end cylindrical body into various forms to produce a bottle can, further including: a regulating means 110 for regulating forward movement of each of the processing tools 32 or the die-ring 22 to prevent the space between each of the processing tools 32 and the die-ring 22 at the forward end of the tool holding part or the die-ring, from lessening to be not more than a predetermined value.

37) Family number: 48019860 (US2013146592A)

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Title: SUPPLEMENTAL LIQUID STORAGE DEVICE ATTACHABLE TO A PRIMARY BEVERAGE CONTAINER

Priority: US20090211139P 20090326 US20090496502 20090701 US20120684568 20121125
US20130758980 20130204

Family:	Publication number	Publication date	Application number	Application date
	BR102012031177 A2	20130924	BR20121031177	20121207
	US2013146592 AA	20130613	US20130758980	20130204
	US8365960 BA	20130205	US20090496502	20090701
	US8662351 BB	20140304	US20130758980	20130204
	WO11003048 A1	20110106	WO2010US40852	20100701

Probable Assignee: KALAOUZE FADI

Assignee(s):^(std): KALAOUZE FADI

Assignee(s): FADI KALAOUZE

Inventor(s):^(std): KALAOUZE FADI ; MCCLUNG DAVID

Inventor(s): FADI KALAOUZE

Agent(s): MARK; MARK YOUNG PA; YOUNG MARK

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

International class [B65D81/32](#) [B67D7/74](#) [B67D7/78](#) (Advanced/Invention)
(IPC 8-9):

CPC: [B65D81/3211](#)

European class: [B65D81/32B1](#)

US class: [206/221](#) [206/222](#) [206/229](#) [215/45](#) [215/6](#) [215/902](#) [220/23.83](#) [220/254.9](#) [220/271](#) [220/501](#)
[220/712](#) [220/713](#) [220/810](#) [220/906](#) [222/129](#) [222/145.5](#) [222/153.07](#) [222/166](#) [222/488](#)
[222/570](#) [426/115](#)

[Classification Explorer](#)

Cited documents: US8083055 BB, US7377383 BB, US6540112 BA, US6176395 BA, US5108003 A, US5071042 A, US4579257 A, US4576306 A, US3887069 A, US3851800 A, US3335893 A, US3116855 A, US2007138179 AA, US2004007594 AA, GB1241985 A,

Forward Citations: WO15136519, WO15113963, WO13036692, USD731238, US9622605, US9596880, US9199779, US9114910, US9102441, US2016207675, US2016052674, US2016044953, US2016044938, US2015232318, US2015129613, US2014339253, US2013297840, US2009311389, EP2753553, DE102014101073,

Abstract:

Source: US2013146592A A secondary container assembly includes a skirt configured to securely and removably engage the rim of a beverage can. The secondary container includes a secondary compartment holding a secondary liquid. A primary flow channel extends through the secondary container to provide a fluid flow path from the open beverage can to an outlet of the secondary container. A plurality of mixing apertures provide fluid communication ports between the secondary compartment and the primary flow channel, allowing the secondary liquid to mix with beverage from the can in the primary flow channel. A vent tube prevents a vacuum from forming that would otherwise impede flow of the secondary liquid into the primary flow channel. A removable seal covers the outlet and mixing ports. A threaded lid holds the seal in place.

38) Family number: 16052591 (US6523720B)

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Title: DISPENSING CONSUMABLE LIQUIDS
Priority: US20000607878 20000630 WO2001US20712 20010629
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

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 III ; ROBBINS ZEBULON S

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 TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class
 (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 class
 (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 class: [B29C49/00G B29C49/48 B65D1/02D1B B65D25/48 B65D43/02S7E B65D47/06 L29B911/14B2B L29B911/14B2D L29B911/14B2F L29B911/14B2H L29B911/14B4L L29B911/14B4N L29B911/14D10D10 L29B911/14D10D4 L29B911/14D10D4D2 L29B911/14D10D4F L29B911/14D2 L29B911/14D4 L29B911/14F4F L29C49/04 L29C49/06 L29K67/00 L29L1/00 L29L31/56B L29L31/7158 L29L31/716](#)

US class: [222/1 222/153.05 222/481.5 222/568](#)

[Classification Explorer](#)

Cited documents: USD367611 S1, USD274696 S1, US6230944 BA, US6228317 BA, US6206251 BA, US5840350 A, US5823383 A, US5605254 A, US5464110 A, US4796766 A, US4665682 A, US4539463 A, US4529372 A, US4496064 A, US4129236 A, US3827593 A, US3734332 A, US3373888 A, US3294883 A, US3153490 A, US1983101 A, GB2034289 A1, GB1302226 A, FR2790456 A1, EP0480836 A2,

Forward Citations: WO06014536, WO06014536, USD712741, USD629685, USD621260, USD606399, USD522869, US9254944, US9067715, US8336745, US8302824, US8038041, US7980432, US7798154, US7762439, US7744298, US7735699, US7637402, US7337923, US7198162, US2012181307, US2011163103, US2008105715,

US2008060679, US2008054028, US2008054027, US2008054026, US2006006194,
US2005105954, US2005082317, US2004124117, US2004000532, MD4145, MD4145,

Abstract:

Source: US6523720B 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.

39) Family number: 48873820 (US2012217178A)

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Title: UNIVERSAL DOMED CLOSURE TO SUPPLY DOSE

Priority: US20090258319P 20091105 US20100373518P 20100813 WO2010US55690 20101105
US20100508329 20101105

Family:	Publication number	Publication date	Application number	Application date
	AU2010314972 AA	20110512	AU20100314972	20101105
	CA2779691 AA	20110512	CA20102779691	20101105
	CN102712398 A	20121003	CN201080060753	20101105
	CN102712398 B	20171013	CN201080060753	20101105
	EP2496489 A2	20120912	EP20100829173	20101105
	EP2496489 A4	20130417	EP20100829173	20101105
	IL219588 A0	20120628	IL20100219588	20101105
	IN01401MN2012 A	20131011	IN2012MN01401	20120605
	JP2013510049 T2	20130321	JP20120537235T	20101105
	KR20120135192 A	20121212	KR20127014487	20101105
	MX2012005182 A1	20120817	MX20120005182	20101105
	US2012217178 AA	20120830	US20100508329	20101105
	WO11057111 A2	20110512	WO2010US55690	20101105
	WO11057111 A3	20110922	WO2010US55690	20101105
	ZA201204091 A	20130227	ZA20120004091	20120605

Probable Assignee: LIQUID HEALTH LABS INC

Assignee(s):^(std): HOPKINS DEREK D ; LAVEAULT RICHARD A ; LIQUID HEALTH LABS INC ; ROHR ROBERT D ; MILLIGAN KENNETH E

Inventor(s):^(std): ROHR ROBERT D ; MILLIGAN KENNETH E ; LAVEAULT RICHARD A ; HOPKINS DEREK D

Agent(s): SPRUSON AND FERGUSON; BERESKIN AND PARR LLP SENCRL SRL; SONN AND PARTNER PATENTANWALTE; NEVRIVY DANIEL J

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 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 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

International class [B65D B65D25/08 B65D41/04 B65D47/06 B65D49/12 B65D51/28](#)
(IPC 8-9): [B65D81/32](#) (Advanced/Invention);
[B65D](#) (Subclass/Invention)

CPC: [B65D41/04 B65D51/2864](#)

European class: [B65D51/28B2A](#)

US class: [206/219 220/287 220/287S](#)

[Classification Explorer](#)

Cited documents: WO09127039 A1, WO06046730 A1, US6435341 BA, US5839573 A, US3347410 A, US2009260999 AA, US2008245797 AA, US2003213709 AA, KR20070085762 A, KR20040103234 A, KR100305456 B1, JP9058716 A2, JP8072849 A2, JP55145460 U1, JP55145460 U, JP51122850 U1, JP51122850 U, JP5058655 U1, JP2008518858 T2, JP2007276786 A2, JP2005187022 A2, JP2002211607 A2, JP2002120853 A2, JP2001511744 T2, JP2001055259 A2, GB698914 A, GB1004473 A, FR2885356 A1, FR2565939 A1, EP0251259 A1, CN2455648 Y,

Forward Citations: WO13003474, WO13003474, US9622483, US9604765, US9598200, US9549633, US9248937, US9051099, US9016470, US8985324, US8857665, US8613372, US8490786, US2015250349, US2015158621, US2015028037, US2014319176,

US2014312065, US2014166157, US2014001064, US2013175188, US2013140198,
US2013119087, US2012193362, US2011000800, CN104743244, CN103950652,

Abstract:

Source: US2012217178A The present invention relates to a universal closure capable of fitting various sized container openings in sealed engagement. The present invention also relates a universal dispensing closure capable of fitting various sized container openings in sealed engagement and used to house a secondary supply or dose of product and when the closure is activated dispense the secondary product or dose into a receiving vessel to which it is attached.

0) US2006213854A – TWO COMPARTMENTS BEVERAGE BOTTLE

40) Family number: 24685357 (US2006213854A)

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Title: TWO COMPARTMENTS BEVERAGE BOTTLE

Priority: EP20030756578 20031016 GB20020023981 20021016 WO2003GB04481 20031016

Family:

Publication number	Publication date	Application number	Application date
AT381500 E	20080115	AT20030756578T	20031016
AU2003301415 AA	20040504	AU20030301415	20031016
AU2003301415 BB	20081218	AU20030301415	20031016
BRPI0315262 A	20050823	BR2003PI15262	20031016
CA2501793 AA	20050412	CA20032501793	20031016
CA2501793 C	20080115	CA20032501793	20031016
CN100450891 C	20090114	CN200380101587	20031016
CN1708438 A	20051214	CN200380101587	20031016
CY1107307 T1	20121121	CY20081100296T	20080317
DE60318229 D1	20080131	DE20036018229	20031016
DE60318229 T2	20081204	DE20036018229T	20031016
DK1551728 T3	20080407	DK20030756578T	20031016
EP1551728 A1	20050713	EP20030756578	20031016
EP1551728 B1	20071219	EP20030756578	20031016
ES2298562 T3	20080516	ES20030756578T	20031016
GB200223981 A0	20021120	GB20020023981	20021016
GB200324230 A0	20031119	GB20030024230	20031016
GB2394934 A1	20040512	GB20030024230	20031016
GB2394934 B2	20041013	GB20030024230	20031016
IN00779KN2005 A	20060901	IN2005KN00779	20050502
IN236084 B	20090925	IN2005KN00779	20050502
JP2006502923 T2	20060126	JP20040544476T	20031016
JP4300483 B2	20090722	JP20040544476T	20031016
MXPA05004029 A1	20051005	MX2005PA04029	20031016
PT1551728 T	20080324	PT20030756578T	20031016
US2006213854 AA	20060928	US20030531087	20031016
US7299936 BB	20071127	US20030531087	20031016
WO04035418 A1	20040429	WO2003GB04481	20031016
ZA200503849 A	20060830	ZA20050003849	20050513

Probable Assignee: VOTUM ENTERPRISES LTD

Assignee(s):^(std): SINGH DALJIT C ; SINGH DALJIT C N G ; SINGH MANJIT C ; SINGH MANJIT C N ; SINGH MANJIT C N G ; VOTUM ENTPR LTD ; VOTUM ENTERPRISE LTD

Assignee(s): VOTUM ENTERPRISES LTD ; SINGH MANJIT CNG ; SINGH DALJIT CNG ; MANJIT C N G SINGH ; MANJIT CNG SINGH

Inventor(s):^(std): MANJIT SINGH C N G ; SINGH MANJIT C N G SINGH DALJI ; SINGH MANJIT C N G ; SINGH MANJIT ; SINGH DALJIT CNG ; SINGH DALJIT C N G ; SINGH DALJIT ; SINGH MANJIT CNG ; DALJIT C N G SINGH ; SINGH MANJIT C ; SINGH DALJIT C

Inventor(s): SINGH MANJIT C N G SINGH DALJIT C N G ; MANJIT C N G SINGH ; DALJIT CNG SINGH ; DALJIT SINGH ; MANJIT CNG SINGH

Agent(s): FB RICE; FB RICE PTY LTD; MACRAE AND CO; HIRAYAMA KAZUYUKI; MICHAEL J CHERSKOV CHERSKOV AND FLAYNIK; CHERSKOV AND FLAYNIK

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW

HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG
MK ML MN MR MW MX MZ NE 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

International class
(IPC 8-9): B65D1/04 B65D81/32 (Advanced/Invention);
B65D1/04 B65D81/32 (Core/Invention);
B65D (Subclass/Non-invention)

International class
(IPC 1-7): B65D1/04 B65D81/32

CPC: B65D81/3227

European class: B65D81/32C3

US class: 206/499 215/10 215/6 222/84

[Classification Explorer](#)

Cited documents: WO9202434 A1, WO0010907 A1, WO00010907, US856064 A, US6494056 BA, US6269979 BA, US6179146 BA, US6179146 B1, US6059443 A, US5897007 A, US5607072 A, US5456090 A, US5437381 A, US4915242 A, US4793476 A, US4678103 A, US4410085 A, US4279349 A, US3506157 A, US3217931 A, US2321998 A, US2288044 A, US1981446 A, US1418814 A, JP9500850, JP11327277, GB2159490 A1, GB1279226 A,

Forward Citations: WO12101100, WO11049534, WO07051433, WO06102472, USD715143, USD696125, USD682691, USD664856, USD653546, US9802806, US9771195, US9713798, US9650189, US9346602, US9033166, US9021825, US8657158, US8550303, US7614512, US2015027973, US2013313216, US2010084362, US2008128378, EP2851315, CN103402889,

Abstract:

Source: US2006213854A The present invention provides a beverage bottle comprising an outer bottle (2) and an inner container (4). The inner container holds a first liquid (such an alcoholic spirit or a flavoured concentrate) and the space between the outer container and the inner container holds a second liquid (such as a still or carbonated mixer). The inner container (4) is twisted along its length to resist the flow of the first liquid to ensure that if the contents are consumed directly from the beverage bottle, every mouthful contains substantially the same ratio of first and second liquids.

0) US5862953A – TAMPER EVIDENT PUSH–PULL CLOSURE WITH POUR SPOU...

41) Family number: 23545519 (US5862953A)

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Title: Tamper evident push–pull closure with pour spout
Priority: US19960633225 19960416 US19960687149 19960724 WO1997US06159 19970416
US20000643087 20000821 US19970927743 19970911 US19970838133 19970415
WO1998US19024 19980911

Family:	Publication number	Publication date	Application number	Application date
	AU199726677 A1	19971107	AU19970026677	19970416
	BRPI9710530 A	19990817	BR1997PI10530	19970416
	CA2303127 AA	20000310	CA19982303127	19980911
	CA2303127 C	20090609	CA19982303127	19980911
	CN1091058 C	20020918	CN19971095346	19970416
	CN1221386 A	19990630	CN19971095346	19970416
	EP0904238 A2	19990331	EP19970918611	19970416
	US5862953 A	19990126	US19960687149	19960724
	US6357628 BA	20020319	US19970927743	19970911
	US6431404 BA	20020813	US20000643087	20000821
	US6769575 BA	20040803	US19970838133	19970415
	WO9738912 A2	19971023	WO1997US06159	19970416
	WO9738912 A3	19971218	WO1997US06159	19970416
	WO9912815 A2	19990318	WO1998US19024	19980911
	WO9912815 A3	19990826	WO1998US19024	19980911
	WO9912815 B1	19991028	WO1998US19024	19980911

Probable Assignee: SILGAN IPEC CORP

Assignee(s):^(std): INT PLASTICS AND EQUIPMEN ; INT PLASTICS AND EQUIPMENT ; INT PLASTICS AND EQUIPMENT COR

Assignee(s): INT PLASTICS AND EQUIPMENT CORP ; INTERNATONAL PLASTICS AND EQUIPMENT CORP ; LONG CHARLES J JR ; SILGAN IPEC CORP

Inventor(s):^(std): LONG JR CHARLES J ; LONG CHARLES J JR

Inventor(s): LONG CHARLES J ; CHARLES J LONG JR

Agent(s): BORDEN LADNER GERVAIS LLP

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

International class [B65D41/34](#) [B65D41/62](#) [B65D47/24](#) [B65D51/18](#) (Advanced/Invention)
(IPC 8–9):

International class [B65D41/24](#) [B65D41/34](#) [B65D41/62](#) [B65D45/02](#) [B65D47/10](#) [B65D47/24](#) [B65D50/00](#)
(IPC 1–7): [B67D47/10](#) [B67D5/00](#)

CPC: [B65D51/18](#) [B65D41/3447](#) [B65D41/62](#) [B65D47/243](#) [B65D2251/0015](#) [B65D2251/0087](#)

European class: [B65D41/34D1](#) [B65D41/62](#) [B65D47/24A2](#) [B65D51/18](#) [L65D251/00Y2D](#) [L65D251/00Y6J](#)

US class: [222/153.06](#) [222/523](#) [222/525](#) [222/541.06](#) [222/541.6](#)

[Classification Explorer](#)

Cited documents: WO9738912 A2, WO9620872 A2, WO9613442 A1, US5829611 A, US5810185 A, US5680965 A, US5680945 A, US5662247 A, US5657906 A, US5655685 A, US5588562 A, US5560504, US5553727, US5480045, US5472120 A, US5465876 A, US5456376, US5456374 A, US5437140, US5429282, US5368178, US5348183, US5328063 A, US5307946, US5307945, US5303838, US5285933 A, US5285912, US5267661, US5224616, US5213224, US5199635, US5186369, US5129530, US5105960, US5104008 A, US5103991, US5036991, US5009323, US5004114, US4989740, US4981230, US4971212 A, US4948003, US4948001, US4946055, US4938370,

US4934546 A, US4930647, US4927065, US4919309 A, US4903849, US4852774, US4844268, US4844250, US4836407, US4834252, US4828128, US4826055, US4815620, US4815617 A, US4807770 A, US4805807, US4801032, US4801030 A, US4796770, US4785952 A, US4779764 A, US4770306 A, US4751036 A, US4749103 A, US4746035 A, US4744478 A, US4739891 A, US4729488 A, US4709823 A, US4700860 A, US4699287 A, US4699286 A, US4687114 A, US4676389 A, US4667839 A, US4664278 A, US4658977 A, US4632265 A, US4625875 A, US4593830 A, US4589561 A, US4572387 A, US4567991 A, US4561553 A, US4548239 A, US4540102 A, US4540098 A, US4534480 A, US4530437 A, US4519569 A, US4506797 A, US4500016 A, US4498597 A, US4497765 A, US4496066 A, US4484687 A, US4469253 A, US4448319 A, US4438857 A, US4437593 A, US4402415 A, US4401227 A, US4385708 A, US4354609 A, US4330067 A, US4307821 A, US4305517 A, US4301937 A, US4298129 A, US4269320 A, US4241841 A, US4230229 A, US4202455 A, US4180175 A, US4177906 A, US4166552 A, US4098419 A, US4084716 A, US4078700 A, US4066182 A, US4053077 A, US4037746 A, US4034882 A, US3980195 A, US3973719 A, US3963139 A, US3942679 A, US3940004 A, US3928109 A, US3913772 A, US3902621 A, US3901404 A, US3893583 A, US3874540 A, US3868039 A, US3844443 A, US3837518 A, US3812994 A, US3792793 A, US3695475 A, US3688942 A, US3682345 A, US3677430 A, US3504818 A, US3434613 A, US3407957 A, US3392860 A, US3372833 A, US33258994, US33214094, US3223269 A, US3120900 A, US3073472 A, US3022917 A, US2998902 A, US2805001 A, US2789717 A, US2684168 A, US2181340 A, US1866770 A, US1630687 A, US1443682 A, NL7312410 A, GB2177384 A1, FR2682357 A1, EP0688724 A1, EP0683106 A1, EP0413466 A1, EP0355949 A1, DE3723235 A1, AU480881 B2, AU480881 A1, AU480881 A1,

Forward Citations:

WO9923002, WO9912815, WO9821110, WO9821110, WO15153598, WO04074120, WO04074120, WO02092452, WO02092452, WO02070363, USD517864, USD503309, US8763830, US8646634, US7905820, US7857154, US7803205, US7794515, US7771499, US7744667, US7228982, US7228979, US6793082, US6758359, US6321924, US6257453, US6059134, US2016214770, US2012091134, US2008190080, US2008184893, US2008184681, US2008173611, US2008155947, US2008093363, US2008041809, US2007034590, US2006124579, US2005066469, US2004251228, GB2367055, GB2367055, FR2821829, ES2235588, EP2517974, EP2065314, CN103842264, CN103842264, CN103303561,

Abstract:

Source: US5862953A A resealable push-pull pour spout closure having an annular secondary closure with a central opening through which a plug is adapted to engage to close a container. The central opening is defined by an annular wall having at least one internally extending annular flange. The diameter of the central opening is substantially the same as that of the plug. The plug takes the form of a circular closure disk having an integrally molded depending annular skirt projecting from the periphery of the disk that attaches to angularly extending legs that connect the plug to the spout thereby defining a hollow cavity for the plug interior and increasing the structural flexibility of the plug. The annular seal flange projects radially into opening for form fitting engagement with the plug to substantially eliminate any leakage when the plug is positioned in the central opening.

42) Family number: 52578146 (US2014144868A)

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Title: LIQUID FILLED BOTTLE HAVING A COVER MEMBER WITH A LABEL FORMING EXTENSION

Priority: EP20120726799 20120611 WO2011IB01676 20110610 WO2012EP60976 20120611

Family:	Publication number	Publication date	Application number	Application date
	AR086890 AA	20140129	AR2012P102056	20120608
	BR112013031698 A2	20170207	BR20131131698	20120611
	CN103764508 A	20140430	CN201280029652	20120611
	CN103764508 B	20160106	CN201280029652	20120611
	DE602012008649 D1	20150820	DE201260008649T	20120611
	EP2718195 A1	20140416	EP20120726799	20120611
	EP2718195 B1	20150708	EP20120726799	20120611
	ES2548209 T3	20151014	ES20120726799T	20120611
	JP2014516886 T2	20140717	JP20140514100T	20120611
	JP6063928 B2	20170118	JP20140514100T	20120611
	MX2013014471 A1	20140327	MX20130014471	20120611
	MX336429 B	20160118	MX20130014471	20120611
	RU2014100117 A	20150720	RU20140100117	20120611
	RU2592353 C2	20160720	RU20140100117	20120611
	TR201512062 T4	20151021	TR20150012062T	20120611
	US2014144868 AA	20140529	US20120125453	20120611
	WO12168471 A1	20121213	WO2012EP60976	20120611
	WO12168753 A1	20121213	WO2011IB01676	20110610

Probable Assignee: DES EAUX MINERALES D EVIAN SAEME SA

Assignee(s):^(std): BESSON JEAN PAUL ; DES EAUX MINERALES D EVIAN SAEME SA ; EAUX MINERALES D EVIAN SAEME SA DES ; EAUX MINERALES D EVIAN SAEME DES SA ; EAUX MINERALES D AND RSQUO EVIAN SAEME DES SA ; EVIAN SAEME SA ; O MINERAL D EVIAN SAEME DEZ SA ; GEHRINGER CHRISTINE

Assignee(s): SA DES EAUX MINERALES D EVIAN SAEME ; DES EAUX MINERALES D'EVIAN SAEME SA ; DEZ O MINERAL D EVIAN SAEME SA

Inventor(s):^(std): BESSON ZHAN POL ; CHRISTINE GEHRINGER ; GERINGER KRISTIN ; JEAN PAUL BESSON ; GEHRINGER CHRISTINE ; BESSON JEAN PAUL

Agent(s): CABINET PLASSERAUD; VEIGA MIKEL; UGUR GUERSAD YALCINER; LE FALHER GUY 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 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 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

International class [B65B7/28](#) [B65D23/14](#) [B65D25/20](#) [B65D51/24](#) [B65D77/20](#) (Advanced/Invention)
(IPC 8-9):

CPC: [B65D51/245](#) [B65D23/14](#) [B65D77/2032](#) [B65D2203/02](#)

European class: [B65D23/14](#) [B65D51/24F](#) [B65D77/20E1B](#) [L65D203/02](#)

US class: [215/230](#)

[Classification Explorer](#)

Cited documents: US6308853 BA, US4280653 A, US2007685 A, JP2031868 U, JP2031868 U, JP201131942, JP2011031942 A2, JP2011031942, JP200541553, JP2005041553 A2,

JP2005041553, JP200499128, JP200441565, JP2004099128 A2, JP2004099128, JP2004041565 A2, JP2004041565, JP2002284205 A2, JP2002284205, JP0231868 U, FR2199906 A5, FR2101015 A1, EP0865015 A1, EP0761560 A1, DE3346849 A1,

DE202010009034 U1

DE202010009034 U,

DE202008010071 U1

DE202008010071 U, DE202008010071 U, CN2573411 Y, CN101449307 A,

Forward Citations: WO17064532, WO14170708, WO14170215, JP6130702, JP6109407, JP2016515500, JP2014199365, CN105246785,

Abstract:

Source: US2014144868A The liquid filled bottle includes a plastic bottle (1) and a cover member (C) sealing an opening (5) of the bottle, the cover member (C) including: a closing portion (6) sealing the opening (5) of the bottle (1) in an annular area (6a), the closing portion having a circumference (8) defined by an outer edge of the annular area, the closing portion defining a first surface (S1) that is substantially planar and delimited by the circumference; and—a label portion (10) that defines a second surface (S2), the label portion (10) and the closing portion (6) being parts of a single piece foil, for instance a flexible plastic foil. The second surface (S2) is entirely offset relative to the annular area (6a), the ratio between the second surface (S2) and the first surface (S1) being at least 1:2, and preferably at least 1:1.

43) Family number: 32301279 (US2005224418A)

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Title: CONTAINER FOR INHIBITING MICROBIAL GROWTH IN LIQUID NUTRIENTS

Priority: US20040823446 20040413 US20040936929 20040909 US20040985377 20041110
 US20040985378 20041110 US20040945066 20040920 US20040985393 20041110
 US20060449102 20060608 US20060449399 20060608 US20060449425 20060608
 US20060449103 20060608 US20060449101 20060608 US20060449654 20060608

Family:	Publication number	Publication date	Application number	Application date
	US2005224418 AA	20051013	US20040985393	20041110
	US2005224423 AA	20051013	US20040936929	20040909
	US2005224425 AA	20051013	US20040985377	20041110
	US2005227016 AA	20051013	US20040985378	20041110
	US2005228067 AA	20051013	US20040823446	20040413
	US2006060258 AA	20060323	US20040945066	20040920
	US2006225380 AA	20061012	US20060449399	20060608
	US2006225807 AA	20061012	US20060449102	20060608
	US2006226059 AA	20061012	US20060449103	20060608
	US2006226085 AA	20061012	US20060449101	20060608
	US2006226582 AA	20061012	US20060449654	20060608
	US2006231506 AA	20061019	US20060449425	20060608
	US7258786 BB	20070821	US20040823446	20040413
	US7258787 BB	20070821	US20060449425	20060608
	US7258804 BB	20070821	US20060449101	20060608
	US7258916 BB	20070821	US20060449103	20060608
	US7309462 BB	20071218	US20060449654	20060608
	US7344642 BB	20080318	US20040945066	20040920
	US7347946 BB	20080325	US20040985393	20041110
	US7357863 BB	20080415	US20040936929	20040909
	US7381334 BB	20080603	US20040985378	20041110
	US7384545 BB	20080610	US20040985377	20041110
	WO05099490 A2	20051027	WO2005US11895	20050405
	WO05099490 A3	20051229	WO2005US11895	20050405

Probable Assignee: EASTMAN KODAK CO

Assignee(s):^(std): EASTMAN KODAK CO ; PATTON DAVID LYNN ; LERAT YANICK JOSEPH FRANCIS ; PATTON DAVID L ; POCHAN JOHN M ; LERAT YANNICK J ; LERAF YANNICK J ; LERAT YANNICK J F ; BRINGLEY JOSEPH F ; BRINGLEY JOSEPH FRANCIS ; WIEN RICHARD WILLIAM ; POCHAN JOHN MICHAEL ; WIEN RICHARD W

Assignee(s): JPMORGAN CHASE BANK NA ADMINISTRATIVE AS ; PAKON INC ; WILMINGTON TRUST NATIONAL ASSOCIATION AGENT AS ; CITICORP NORTH AMERICA INC AGENT AS ; BANK OF AMERICA NA AGENT AS ; BARCLAYS BANK PLC ADMINISTRATIVE AGENT AS ; EASTMAN KODAK COMPANY ; EASTMAN KODAK COMANY

Inventor(s):^(std): BRINGLEY JOSEPH F ; BRINGLEY JOSEPH FRANCIS ; DONTULA NARASIMHARAO ; HARRISON WILLIAM J ; LERAF YANNICK J ; LERAT YANNICK J ; LERAT YANNICK J F ; LERAT YANICK JOSEPH FRANCIS ; PATTON DAVID L ; PATTON DAVID LYNN ; POCHAN JOHN M ; POCHAN JOHN MICHAEL ; WIEN RICHARD W ; WIEN RICHARD WILLIAM

Inventor(s): WIEN RICHARD ; BRINGLEY JOSEPH ; POCHAN JOHN ; LERAT YANNICK ; LERAT YANNICK JF ; PATTON DAVID ; LERAF YANNICK JF ; LERAF YANNICK ; HARRISON WILLIAM

Agent(s):

PAMELA R CROCKER PATENT LEGAL STAFF; FRANK; THOMAS J; PINCELLI FRANK; SHKURKO EUGENE I; EUGENE I

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 KP KR KZ LC 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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class
(IPC 8-9): A01N25/34 A01N59/16 A23L1/015 A23L2/42 A23L2/70 A23L2/72 A23L3/00 A23L5/20 A61L2/16 A61L2/238 B01D15/00 B01D29/00 B01D37/00 B01D57/00 B01J20/00 B01J45/00 B05D1/18 B29C49/22 B32B5/16 B65B1/04 B65B1/20 B65B25/00 B65B29/00 B65D23/02 B65D81/24 B65D81/28 C02F1/00 C02F1/28 C02F1/50 C07F7/02 C12H1/00 (Advanced/Invention); C02F1/68 (Advanced/Non-invention); A01N25/34 A01N59/16 A23L1/015 A23L2/42 A23L2/70 A23L3/00 A61L2/16 B01D15/00 B01D29/00 B01D37/00 B01D57/00 B01J20/00 B05D1/18 B29C49/22 B32B5/16 B65B1/00 B65B1/04 B65B25/00 B65B29/00 B65D23/00 B65D81/24 B65D81/28 C02F1/00 C02F1/28 C02F1/50 C07F7/00 C12H1/00 (Core/Invention); C02F1/68 (Core/Non-invention)

International class
(IPC 1-7): A23L1/015 A23L2/42 A23L2/70 A23L3/00 B01J20/00 B05D1/18 B65D81/24 C02F1/00 C02F1/28 C02F1/50 C02F1/58 C08K3/00 C12H1/00

CPC: Y10T428/1352 Y10T428/25 C02F1/004 A23V2002/00 B29B2911/14053 B29B2911/14066 B29B2911/1408 B29B2911/14093 B29B2911/14113 B29B2911/1414 A23L5/273 B05D1/18 A01N25/10 A01N25/34 A01N59/16 A61L2/16 A61L2/238 B65D81/24 B65D81/28 C02F1/50 C02F1/505 C02F1/683 C02F2307/02

European class: A01N25/10 A01N25/34 A01N59/16 A23L1/015E2 A61L2/16 A61L2/238 B65D81/24 B65D81/28 C02F1/00D6 C02F1/50 K23V2/00 L29B911/14B4B L29B911/14B4D L29B911/14B4F L29B911/14B4H L29B911/14B4L2 L29B911/14B4N2 M02F1/50B M02F1/68K M02F307/02

US class: 141/1 141/11 141/11P 141/1P 206/523.4 206/524.3 206/524.4 210/198.1 210/198.1 210/198.100P 210/209 210/501 210/638 210/668 210/681 210/759 210/764 210/765 210/767 215/12.1 215/12.2 220/61.12 220/62.12 264/255 264/255S 264/259 264/513 264/513P 264/516 264/523 264/523S 422/28 422/37 424/443 426/271 426/322 426/326 426/330 426/330.3 426/422 426/85 427/430.1 427/430.100S 427/458 427/458P 428/323 428/35.7 523/122 53/402 53/402P

[Classification Explorer](#)

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Abstract:

Source: US2005224418A A method for inhibiting growth of microbes in a liquid having a pH equal to or greater than about 2.5 by using a filter bed assembly or filter for filtering the liquid having a metal-ion sequestering agent for removing designated metal ion from the liquid. The liquid is passed through the filter bed or filter for a sufficient time so as to substantially reduce the designated metal ion from the liquid.

44) Family number: 34353557 (US2008274318A)

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Title: POLYESTER RESIN AND HEAT AND PRESSURE RESISTANT PLASTIC BOTTLE
Priority: JP20050273614 20050921 WO2006JP17606 20060906 WO2006JP317606 20060906
Family:

Publication number	Publication date	Application number	Application date
AU2006293303 AA	20070329	AU20060293303	20060906
AU2006293303 BB	20111201	AU20060293303	20060906
CA2620672 AA	20080228	CA20062620672	20060906
CA2620672 C	20130528	CA20062620672	20060906
CN101068849 A	20071107	CN200680001298	20060906
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EP1939236 A4	20091014	EP20060810043	20060906
JP2007084654 A2	20070405	JP20050273614	20050921
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KR101313349 B1	20131001	KR20077014628	20060906
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US7959997 BB	20110614	US20060990266	20060906
WO07034676 A1	20070329	WO2006JP317606	20060906

Probable Assignee: YOSHINO KOGYOSHO CO LTD

Assignee(s):^(std): IMAI TOSHIO ; TAKADA MAKOTO ; YOSHINO KOGYOSHO CO LTD

Assignee(s): YOSHINO KOGYOSHO CO

Inventor(s):^(std): IMAI TOSHIO ; MAKOTO TAKADA ; TAKADA MAKOTO ; TOSHIO IMAI ; TOSHIO TAKADA MAKOTO IMAI

Inventor(s): TAKADA MAKOTO IMAI TOSHIO

Agent(s): SPRUSON AND FERGUSON; FETHERSTONHAUGH AND CO; KLINGSEISEN FRANZ; WATANABE KAZUTOYO; OLIFF AND BERRIDGE PLC

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 HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
 (IPC 8-9): [B32B1/02](#) [B32B1/08](#) [B32B27/36](#) [B65D1/00](#) [B65D1/02](#) [C08G63/183](#)
[C08G63/85](#) (Advanced/Invention);
[B32B1/08](#) [B65D1/00](#) [B65D1/02](#) [C08G63/183](#) (Advanced/Non-invention);
[B32B1/00](#) [B32B27/36](#) [B65D1/00](#) [B65D1/02](#) [C08G63/00](#) (Core/Invention)

CPC: [Y10T428/13](#) [Y10T428/1303](#) [Y10T428/1352](#) [Y10T428/1359](#) [Y10T428/139](#) [Y10T428/2822](#)
[B65D1/0284](#) [C08G63/85](#) [Y10T428/31797](#) [C08G63/183](#)

European class: [B65D1/02D2E](#) [C08G63/183](#) [C08G63/85](#)

US class: [428/34.1](#) [428/34.2](#) [428/348](#) [428/35.7](#) [428/35.9](#) [428/36.9](#) [428/36.900P](#) [428/483](#) [428/483S](#)

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Forward Citations: WO10062314, US9555573, US9505692, US9493389, US9493388, US9493387, US8672725, US8236921, US2013062306, US2011120464, US2011057361, EP2277603, DE102008015710, CN103263352, CN102582901, CN102582901,

Abstract:

Source: US2008274318A This invention is intended to improve the heat resistance of PET bottles from a material aspect. A technical problem of this invention is to find a polyester resin which is suitable for heat and pressure resistant plastic bottles and which does not eat into productivity and is available at a low cost. The object of this invention is to provide a heat and pressure resistant plastic bottle that can be manufactured at a low cost and has pressure resistance at a high temperature and high impact strength. The means of fulfilling this object is a polyester resin comprising a major part of ethylene terephthalate units and containing at least one of minor copolymerizable components selected from a group consisting of isophthalic acid, cyclohexane dimethanol, and diethylene glycol, wherein three minor copolymerizable components have total content less than 3 mol. percent.

0) US2007181526A – EASY-PULL BOTTLE CAP

45) Family number: 34893346 (US2007181526A)

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Title: EASY-PULL BOTTLE CAP

Priority: AU20120319036 20120830 AU20140202533 20140509 US20070698247 20070125
 US20060758725P 20060114 US20070698247 20070124 EP20110876615 20111223
 US20100725295 20100316 US20100903533 20101013 US20110267264 20111006
 US20120243437 20120724 US20120243403 20120830 US20160085489 20160330
 US20140243403 20141106 US20170456823 20170313 WO2006US02421 20060124
 WO2012US47949 20120724 WO2011US67134 20111223 WO2012US53131 20120830
 WO2011US47949 20111006

Family:

Publication number	Publication date	Application number	Application date
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AU20140202533 BB	20140619	AU20140202533	20140509
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BR112014008148 A2	20170411	BR20141108148	20120724
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CA2851232 AA	20140404	CA20122851232	20120830
CA2854442 AA	20140502	CA20112854442	20111223
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CO7030940 A2	20140821	CO20140073145	20140404
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EP2748080 A1	20140702	EP20120838188	20120724
EP2748080 A4	20150304	EP20120838188	20120724
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EP2748081 A4	20150304	EP20120838359	20120830
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<u>UA113066 C2</u>	20161212	UA20140004825	20120724
<u>US2007181526 AA</u>	20070809	US20070698247	20070125
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<u>US2015034586 AA</u>	20150205	US20120243437	20120724
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<u>US8608006 BB</u>	20131217	US20110267264	20111006
<u>US9321562 BB</u>	20160426	US20120243403	20120830
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<u>WO07081349 A1</u>	20070719	WO2006US02421	20060124
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<u>WO13052194 A1</u>	20130411	WO2012US47949	20120724
<u>WO13052219 A1</u>	20130411	WO2012US53131	20120830
<u>WO13081638 A1</u>	20130606	WO2011US67134	20111223
<u>ZA201402238 A</u>	20150325	ZA20140002238	20140326
<u>ZA201402239 A</u>	20150325	ZA20140002239	20140326
<u>ZA201403254 A</u>	20151125	ZA20140003254	20140506

Probable Assignee: WORLD BOTTLING CAP LLC

Assignee(s):^(std): ABE FRISHMAN ; FAN SIMING ; FRISHMAN ABE ; FRISHMAN EHJB ; WORLD BOTTLING CAP LLC

Assignee(s): LIBERMAN TERRY ; SWEENEY BART ; SWEENEY KATHLEEN ; WORLD BOTTLING CAP LLC111-225 - 3044 OLD DENTON ROADCARROLLTONTX75007US

Inventor(s):^(std): FRISHMAN ABE ; FRISHMAN EHJB ; ABE FRISHMAN ; FAN SIMING

Inventor(s): FRISHMAN ABEUS

Agent(s): ALLENS PATENT AND TRADE MARK ATTORNEYS; DEETH WILLIAMS WALL LLP; ALVARO CORREA ORDONEZ; ASHTON TIMOTHY; ONDA MAKOTO; ONDA HIRONORI; TOLGA CAYLAK; MATTHEW E BURR LAKE AUSTIN MARINA; MATTHEW E BURR; MATTHEW E; CARSTENS AND CAHOON LLP; JAMES H; BURR MATTHEW; BURR MATTHEW E

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
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NE NG NI NL NO NZ OM 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 YU ZA ZM
ZW

International class
(IPC 8-9):

B21D51/44 B21D51/48 B23P11/00 B65D B65D17/00 B65D17/34 B65D39/00 B65D41/00
B65D41/02 B65D41/10 B65D41/12 B65D41/32 B65D41/34 B65D41/42 B65D45/32
B65D51/00 B65D51/24 B65D79/00 (Advanced/Invention);
B65D41/34 (Advanced/Non-invention);
B23P11/00 B65D17/28 B65D39/00 B65D41/00 B65D41/12 B65D41/32
B65D51/00 (Core/Invention);
B65D (Subclass/Invention)

CPC:

Y10T29/49826 B21D51/443 B65D17/165 A61J1/1406 B65D17/163 B65D17/166
B65D47/36 B65D51/002 B65D51/18 B65D2251/0093 B65D41/42 B65D79/005
A61J1/1412 B65D41/32

European class:

B21D51/48 B65D17/16B2 B65D41/12 B65D41/42

US class:

1/1 215/250 215/253 215/255 215/256 215/257 215/328 215/328S 220/255 220/269
220/269S 220/270 220/270S 220/272 220/273 29/428 29/428S

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JP2087756 U, JP2087756 U, JP2087756, JP2006347600 A2, JP2006036360 A2,
JP2005047621 A2, JP2005047621, JP2000301561 A2, JP2000054070 A2, GB759417 A,
GB599704 A, GB1540229 A, GB1377767 A, GB1279068 A, FR322592 A, FR2118176 A1,
EP0262767 A1, DE8577425, DE8527425 U, DE8527425, DE3906112 A1, DE29600761
U1, DE29600761, DE2015629 A1, DE1038934 B, CN2151103 Y, CN2094345,
CN201729365 U, CN201321197 Y, BE503394 A,

Forward Citations:

WO16122770, WO16104773, WO15195059, WO15168420, WO15152986, WO15147889,
WO15034900, WO14121249, WO13052219, WO10141001, WO10128961, USD791426,
USD772064, USD675655, USD644822, USD575712, USD575711, USD575211,
USD575210, US9649254, US9592936, US9546027, US9533800, US9321562,
US9259284, US9248938, US8999073, US8834650, US8832894, US8733567,
US8365940, US8276773, US8109406, US2017101215, US2016083136, US2015314362,
US2015284136, US2015274353, US2015157535, US2015034586, US2013206136,
US2013087523, US2011253666, US2011024381, US2010306938, US2010282706,
US2010264109, US2010200534, US2010096355, US2008099480, TWI566994,
JP6127055, JP6057023, JP5956696, JP2016511024, JP2016104773, JP2014531372,
EP2951105, EP2763905, EP2748081, EP2179940, CN105966742, CN105819082,
CN105819081, CN105764627, CN104853994, CN104550550, CN104386347,
CN104128525, CN104128525, CN103998348, CN103998348, AU2012319036,

Abstract:

Source: US2007181526A A crown for a bottle or other container, the crown comprised of a pull tab ring and a pull

tab secured to the crown by a rivet and one or more cut lines between the rivet and the rim of the crown. The crown may be formed from tinplate with a hardness of T4 as measured by the Rockwell 30T Hardness Scale so that the crown may be opened and removed from the container the a force of approximately 2.5 Kg.

0) US4589559A – BLOW-MOLDED BOTTLE-SHAPED CONTAINER OF BIAXIAL...

46) Family number: 30126194 (US4589559A)

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Title: BLOW-MOLDED BOTTLE-SHAPED CONTAINER OF BIAXIALLY ORIENTED POLYETHYLENE TEREPHTHALATE RESIN AND METHOD OF MOLDING THE SAME

Priority: CA19820409753 19820819 EP19820304408 19820820 JP19810123127 19810820
JP19810123127U 19810820 JP19810134733 19810827 US19840593188 19840327
US19820409176 19820818

Family:	Publication number	Publication date	Application number	Application date
	<u>AU198287472 A1</u>	19830224	AU19820087472	19820820
	<u>AU558962 B2</u>	19870219	AU19820087472	19820820
	<u>CA1184717 A1</u>	19850402	CA19820409753	19820819
	<u>DE3276103 D1</u>	19870527	DE19823276103	19820820
	<u>EP0073151 A2</u>	19830302	EP19820304408	19820820
	<u>EP0073151 A3</u>	19831116	EP19820304408	19820820
	<u>EP0073151 B1</u>	19870422	EP19820304408	19820820
	<u>HK8690 A</u>	19900209	HK19900000086	19900201
	<u>JP1039896 B4</u>	19890824	JP19810134733	19810827
	JP1562882 C3	19900612	JP19810134733	19810827
	<u>JP58029909 U1</u>	19830226	JP19810123127U	19810820
	<u>JP58036420 A2</u>	19830303	JP19810134733	19810827
	<u>US4589559 A</u>	19860520	US19850772204	19850905

Probable Assignee: YOSHINO KOGYOSHO CO LTD

Assignee(s):^(std): HAYASHI YOSHIKI ; TAKADA TAKUZO ; YOSHINO KOGYOSHO CO LTD

Assignee(s): YOSHINO KOGYOSHO KK ; YOSHINO KOGYOSHO CO

Inventor(s):^(std): HAYASHI YOSHIKI ; TAKADA TAKUZO ; TAKADA TAKUZOU ; TAKUZO TAKADA ; YOSHIKI HAYASHI

Agent(s): DAVIES COLLISON CAVE; JOHNSON AND HICKS

Designated states: CH DE FR GB IT LI NL

International class
(IPC 8-9): B29B11/08 B29C49/00 B29C49/06 B29C49/08 B29C49/64 B29C49/68 B29C65/00 B65D1/02 (Advanced/Invention);
B29C49/06 B29K67/00 B29L22/00 (Advanced/Non-invention);
B29B11/00 B29C49/00 B29C49/06 B29C49/08 B29C49/64 B29C65/00 B65D1/02 (Core/Invention);
B29C49/06 (Core/Non-invention)

International class
(IPC 1-7): B29B1/14 B29C17/07 B29C17/07 B29C49/06 B29C49/08 B29C49/64 B29D23/03 B65D1/02 B65D23/00

CPC: Y10S264/908 B29B2911/14106 B29B2911/14133 B29B2911/1433 B29B2911/14331 B29B2911/14336 B29B2911/14337 B65D1/02 B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29B2911/14326 B29B2911/14333 B29B2911/1444 B29C49/0073 B29C49/06 B29C49/6409 B29K2067/00 B29K2995/0041

European class: B29C49/00G B29C49/64B B65D1/02 L29B911/14B2B L29B911/14B2D L29B911/14B2F L29B911/14B2H L29B911/14B4L L29B911/14B4N L29B911/14D10D4D2 L29B911/14D2 L29B911/14D4 L29C49/06 L29K67/00 L29K995/00F4

US class: 215/1C 215/31 215/42 264/235 264/25 264/346 264/521 264/537 264/908

[Classification Explorer](#)

Cited documents: US4379099 A, US4288478 A, US4233022 A, US4164298 A, JPS5468385, JP55079237 A2, JP55012031 A2, JP54068385 A2, JP52120083 A2, GB2066725 A1, GB2041286 A1, GB2015914 A1, FR2447326 A1, FR2429660 A1, FR2401759 A1, FR2346226 A1, FR2285978 A1, EP0058815 A1,

Forward Citations:

WO9852729, WO8803864, WO06032113, WO0220246, WO02076712, WO0183193, USD495602, US9758294, US9315399, US8551589, US8061158, US8051674, US7997099, US7717697, US7645135, US7615176, US7588808, US7578668, US7531226, US7367795, US7303387, US7261551, US7097056, US7033656, US6841117, US6808820, US6787094, US6666001, US6572812, US6555191, US6555047, US6428737, US6228317, US6217818, US6093364, US5858300, US5683648, US5540879, US5501590, US5472660, US5398826, US5352402, US5206039, US5191987, US5035931, US4933135, US4928835, US4889247, US4884961, US4822543, US2013037580, US2009224439, US2009223920, US2008178630, US2007175237, US2007101758, US2006110558, US2005150856, US2004256763, JP3097520, GB2373215, GB2373215, FR2580545, EP2739551, EP2739551, EP1825988, EP1019234, EP0240037, EP0202973, EP0197780, EP0197780, EP0144450, EP0144196, AU632087, AU609533, AU2012290249,

Abstract:

Source: US4589559A A hollow blow-molded bottle-shaped container of a biaxially oriented polyethylene terephthalate which advantageously has a crystallized outer peripheral portion at the neck portion except the boundary between the neck portion and the body portion and non-crystallized inner peripheral portion thereat. This bottle-shaped container is molded by a method of molding the same, which method advantageously has the steps of injection-molding a piece or parison formed at the outer peripheral surface of a neck root part forming portion in a downwardly flared tapered shape, and crystallizing by a heat treatment the outer peripheral surface portion of the neck root part forming portion. Thus, the deterioration in the physical properties of the neck and shoulder portions of the bottle-shaped container thus finally blow-molded can be reduced.

47) Family number: 14442217 (GB2331511A)

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Title: Crowned plastic bottle, method and apparatus**Priority:** GB19970023733 19971111

Family:	Publication number	Publication date	Application number	Application date
	<u>GB2331511 A1</u>	19990526	GB19970024114	19971117
	<u>GB2331511 A9</u>	00000000	GB19970024114	19971117
	GB9723733 A0	19980107	GB19970023733	19971111
	GB9724114 A0	19980114	GB19970024114	19971117

Probable Assignee: BASS PLC**Assignee(s):^(std):** BASS PLC**Assignee(s):** BASS PUBLIC LIMITED COMPANY**Inventor(s):^(std):** HANCOCKS MICHAEL TURLEY ; MCCLURE JOHN LAW ; PRIME CHRIS FREDERICK**Inventor(s):** MICHAEL TURLEY HANCOCKS ; JOHN LAW MCCLURE ; CHRIS FREDERICK PRIME

International class B65D1/02 B67B3/02 (Advanced/Invention) ;
^{(IPC 8-9):} B65D1/02 B67B3/00 (Core/Invention)

International class B65D1/02 B67B3/02
^{(IPC 1-7):}

CPC: B65D1/023 B67B3/02**European class:** B65D1/02D1 B67B3/02[Classification Explorer](#)**Cited documents:** US4591060, GB992750, GB2204571, GB1263571, FR2669300,**Abstract:**

Source: GB2331511A The plastic bottle (10,fig 1) comprises a body portion (12), a neck portion 14, a flange 32, a shoulder (28) and a mouth (16). The crown 24 is applied at a crowning station where the crowning force is dissipated through reaction means 94, 96, 98 via the flange 32 on the bottle and collar 86 which engages the underside of the flange 32 such that the crowning force reacted through the body of the bottle is reduced or substantially eliminated. The bottle may be blow moulded from a proto-bottle and have thickened base and upper neck portions (fig 3).

48) Family number: 19773050 (WO0075020A3)

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Title: STORAGE OF BEVERAGES**Priority:** GB19990012992 19990605 WO2000GB02162 20000605

Family:	Publication number	Publication date	Application number	Application date
	AU200050939 A1	20001228	AU20000050939	20000605
	AU200050939 A5	20001228	AU20000050939D	20000605
	EP1636112 A2	20060322	EP20000935396	20000605
	GB200013468 A0	20000726	GB20000013468	20000605
	GB2350598 A1	20001206	GB20000013468	20000605
	GB2350598 B2	20030903	GB20000013468	20000605
	GB9912992 A0	19990804	GB19990012992	19990605
	WO0075020 A2	20001214	WO2000GB02162	20000605
	WO0075020 A3	20010628	WO2000GB02162	20000605
	WO0075020 B1	20010719	WO2000GB02162	20000605
	WO0075020 C1	20011108	WO2000GB02162	20000605

Probable Assignee: NOVATION LIMITED**Assignee(s):**^(std): GODDIN DAVID JEREMY CUMBERLAND ; GODDIN JAMES ROBERT JARRETT ; GODDIN JEREMY ROBERT ; NOVATION LIMITED ; NOVATION LTD**Inventor(s):**^(std): GODDIN DAVID JEREMY CUMBERLAND ; GODDIN JAMES ROBERT JARRETT ; GODDIN JEREMY ROBERT ; GODDIN DAVID JEREMY**Inventor(s):** DAVID JEREMY CUMBERLAND GODDIN ; JEREMY ROBERT GODDIN ; JAMES ROBERT JARRETT GODDIN**Designated states:** AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW**International class**
(IPC 8-9): [B65D77/28](#) (Advanced/Invention);
[B65D77/24](#) (Core/Invention)**International class**
(IPC 1-7): [B65D77/28](#)**CPC:** [B65D77/283](#)**European class:** [B65D77/28C](#)[Classification Explorer](#)**Cited documents:** WO9717270 A1, US5823422 A, US5431297 A, US4109817 A, US3220587 A, US3173566 A, GB598612 A, GB1369281 A, GB1043287 A,**Forward Citations:** WO16016570, WO11049534, WO03097480, GB2423069, GB2414017, GB2414017, FR3024440, FR2818251, EP3090960,**Abstract:**

A container (20) stores a beverage and comprises a closure member (21) covering an access aperture (22). An internally-mounted fitting (24) defines the access aperture (22) and a cylindrical mounting (27) for an outer tubular member (28) which extends to a position adjacent the bottom of the container (20). An inner tubular member (32) is positioned coaxially within the outer tubular member (28) and is supported for telescopic movement when the access aperture (22) is unsealed by removing the closure member (21). A vent (34) is provided to permit communication between the access aperture (22) and the interior of the bottle (20).

- **search:** SS7 TAC=(bottle or (beverage container) and ((squeeze* or juic*) W3 fruit*)) and FT=(neck) and IC=B65D and PD<20140606 (Results 77)

- List: SS7 1–50 (TAC=(bottle or (beverage container) and ((squeeze* or juic*) W3 fruit*)) and FT=(neck) and IC=B65D and PD<20140606) (Results 77)

0) US2006051539A – DLC FILM COATED PLASTIC CONTAINER, AND DEVICE A...

1) Family number: 30109328 (US2006051539A)

© PatBase

Title: DLC FILM COATED PLASTIC CONTAINER, AND DEVICE AND METHOD FOR MANUFACTURING THE PLASTIC CONTAINER

Priority: AU20030241765 20030526 AU20090227865 20091019 JP20020154697 20020528
 EP20030733060 20030526 US20050514728 20050727 EP20090001090 20030526
 WO2003JP06528 20030526 US20100749175 20100329 US20120557737 20120725

Family:	Publication number	Publication date	Application number	Application date
	AT506270 E	20110515	AT20030733060T	20030526
	AT521545 E	20110915	AT20030001090T	20030526
	AU2003241765 AA	20031219	AU20030241765	20030526
	AU2003241765 BB	20090806	AU20030241765	20030526
	AU2009227865 AA	20091112	AU20090227865	20091019
	AU2009227865 BB	20110519	AU20090227865	20091019
	CN100337881 C	20070919	CN20038012087	20030526
	CN1655993 A	20050817	CN20038012087	20030526
	DE60336808 D1	20110601	DE20036036808	20030526
	DE60338229 D1	20111124	DE20036038229	20030526
	EP1508525 A1	20050223	EP20030733060	20030526
	EP1508525 A4	20081001	EP20030733060	20030526
	EP1508525 B1	20110420	EP20030733060	20030526
	EP2052987 A2	20090429	EP20090001090	20030526
	EP2052987 A3	20090506	EP20090001090	20030526
	EP2052987 B1	20110824	EP20090001090	20030526
	JP2003101847 A1	20050929	JP20040509551T	20030526
	JP4188315 B1	20081126	JP20040509551T	20030526
	JP4188315 B2	20081126	JP20040509551T	20030526
	KR100961419 B1	20100609	KR20047019260	20030526
	KR20050013112 A	20050202	KR20047019260	20030526
	RU2004138301 A	20051027	RU20040138301	20030526
	RU2336365 C2	20081020	RU20040138301	20030526
	US2006051539 AA	20060309	US20050514728	20050727
	US2010275847 AA	20101104	US20100749175	20100329
	US2013189448 AA	20130725	US20120557737	20120725
	US7754302 BB	20100713	US20050514728	20050727
	WO03101847 A1	20031211	WO2003JP06528	20030526

Probable Assignee: KIRIN BREWERY CO LTD

Assignee(s):^(std): KIRIN BREWERY ; ANDO HIDEYASU ; YAMASAKI TERUYUKI ; SHIRAKURA AKIRA

Assignee(s): KIRIN BEER KABUSHIKI KAISHA ; KIRIN BEER KK ; KIRIN BIR KABUSIKI KAJSSA ; KIRIN BREWERY COMPANY LTD ; KIRIN BREWERY COMPANY LIMITED ; KIRIN BREWERY CO ; KIRIN HOLDINGS KK ; KIRIN BREWERY CO LTD ; KIRIN BREWERY CO LIMITED ; KIRIN BREWERY COMPANY LIMITED

Inventor(s):^(std): AKIRA SHIRAKURA ; ANDO HIDEYASU ; HIDEYASU ANDO ; HIDEYASU YAMASAKI TERUYUKI SHI ; ANDO KHIJESASU ; YAMASAKI TERUYUKI ; SHIRAKURA AKIRA ; TERUYUKI YAMASAKI ; JAMASAKI TERUJUKI ; SIRAKURA AKIRA

Inventor(s): SHIRAKURA AKIRA KIRIN BREWERY COMPANY LTD ; YAMASAKI TERUYUKI KIRIN BREWERY COMPANY LTD ; YAMASAKI TERUYUKI SHIRAKURA AKIRA ANDO HIDEYASU ; ANDO HIDEYASU KIRIN BREWERY COMPANY LTD

Agent(s):

FB RICE; FB RICE PTY LTD; PRINZ AND PARTNER MBB PATENTANWALTE
RECHTSANWALTE; PRINZ AND PARTNER; IMASHITA KATSUHIRO; OKADA KENJI;
OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK
MCCLELLAND MAIER AND NEUSTADT LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO
CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW
HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG
MK ML MN MR MW MX MZ NE NI 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

International class
(IPC 8-9): B32B27/08 B65D23/02 B65D23/08 C23C16/04 C23C16/26 C23C16/448
C23C16/505 (Advanced/Invention);
B65D23/02 C23C16/00 C23C16/26 (Advanced/Non-invention);
B32B27/08 B65D23/00 C23C16/04 C23C16/26 C23C16/50 (Core/Invention);
C23C16/00 (Core/Non-invention)

International class
(IPC 1-7): B65D23/02 C23C16/26

CPC: B65D1/0215 B65D23/0814 C23C16/045 C23C16/505 Y10T428/1352 C23C16/26

European class: B65D1/02B1 B65D23/08B1 C23C16/04D C23C16/26 C23C16/505

US class: 118/723.00IP 118/723I 220/62.12 220/62.22 427/237 427/577 428/35.7

[Classification Explorer](#)

Cited documents: WO9949991 A1, WO03102263 A1, WO0132513 A1, WO0071780 A1, US7166336 BA,
US7029752 BB, US6919114 BA, US6805931 BB, US6589619 BA, US6503579 BA,
US6276296 BA, US6180191 BA, US6180191 B1, US6045916 A, US5885672 A,
US5798139 A, US4746538 A, US4667620 A, US2007157885 AA, US2006051539 AA,
US2005118365 AA, US2003124229 AA, US2003087030 AA, JP8053117 A2,
JP2001335947 A2, JP2001335947, JP2001031045 A2, JP2001031045, EP1197581 A1,
EP1010773 A1,

Forward Citations: WO13110491, WO13110491, WO10119578, WO10045555, WO08114475, WO06058547,
WO05035825, US9764093, US9664626, US9662450, US9572526, US9554968,
US9545360, US9458536, US9445969, US9272095, US8950614, US8950356,
US8883257, US8834954, US8722163, US8512796, US7985188, US7967945,
US7887891, US7754302, US7166336, US2015150759, US2012052215, US2011001103,
US2010275847, US2010200587, US2009297730, US2009284421, US2008206477,
US2007235427, US2007157885, US2005266191, US2005230492, JP2008229968,
JP2006321528, JP2006160268,

Abstract:

Source: US2006051539A The present invention provides a plastic container having a inner wall surface coated with DLC film which has same level of oxygen barrier property as prior art and can prevent a coloring of the DLC film formed on a neck portion of the container, manufacturing apparatus therefor and manufacturing method thereof. The apparatus for manufacturing the DLC film coated plastic container, comprising: a container side electrode which forms one portion of a pressure-reducing chamber which houses a container formed from plastic, a facing electrode which faces said container side electrode and is arranged inside said container or above said opening, wherein said container side electrode and said facing electrode are made to face each other via an insulating body which forms a portion of said pressure-reducing chamber, source gas supply means which includes a supply gas inlet pipe, exhaust means, and high frequency supply means; wherein said container side electrode is formed so that the average inner hole diameter of the inner wall surrounding said neck portion when the container is housed becomes smaller than the average inner hole diameter of the inner wall surrounding said body portion, and the average distance between the outer wall of said container and the inner wall of said container side electrode in a horizontal cross section with respect to the vertical direction of said container at said neck portion becomes longer than the average distance between the outer wall of said container and the inner wall of said container side electrode in a horizontal cross section with respect to the vertical direction of said container at said body portion.

2) Family number: 16052591 (US6523720B)

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Title: DISPENSING CONSUMABLE LIQUIDS
Priority: US20000607878 20000630 WO2001US20712 20010629
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

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 III ; ROBBINS ZEBULON S

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 TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class
 (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 class
 (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 class: [B29C49/00G B29C49/48 B65D1/02D1B B65D25/48 B65D43/02S7E B65D47/06 L29B911/14B2B L29B911/14B2D L29B911/14B2F L29B911/14B2H L29B911/14B4L L29B911/14B4N L29B911/14D10D10 L29B911/14D10D4 L29B911/14D10D4D2 L29B911/14D10D4F L29B911/14D2 L29B911/14D4 L29B911/14F4F L29C49/04 L29C49/06 L29K67/00 L29L1/00 L29L31/56B L29L31/7158 L29L31/716](#)

US class: [222/1 222/153.05 222/481.5 222/568](#)

[Classification Explorer](#)

Cited documents: USD367611 S1, USD274696 S1, US6230944 BA, US6228317 BA, US6206251 BA, US5840350 A, US5823383 A, US5605254 A, US5464110 A, US4796766 A, US4665682 A, US4539463 A, US4529372 A, US4496064 A, US4129236 A, US3827593 A, US3734332 A, US3373888 A, US3294883 A, US3153490 A, US1983101 A, GB2034289 A1, GB1302226 A, FR2790456 A1, EP0480836 A2,

Forward Citations: WO06014536, WO06014536, USD712741, USD629685, USD621260, USD606399, USD522869, US9254944, US9067715, US8336745, US8302824, US8038041, US7980432, US7798154, US7762439, US7744298, US7735699, US7637402, US7337923, US7198162, US2012181307, US2011163103, US2008105715,

US2008060679, US2008054028, US2008054027, US2008054026, US2006006194,
US2005105954, US2005082317, US2004124117, US2004000532, MD4145, MD4145,

Abstract:

Source: US6523720B 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.

3) Family number: 7184171 (EP0554028A1)

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Title: TAMPER-INDICATING CLOSURES.**Priority:** GB19920001636 19920125

Family:	Publication number	Publication date	Application number	Application date
	EP0554028 A1	19930804	EP19930300505	19930125
	GB2263901 A1	19930811	GB19920001636	19920125
	GB9201636 A0	19920311	GB19920001636	19920125

Probable Assignee: RYFORD LTD**Assignee(s):^(std):** RYFORD LTD**Assignee(s):** RYFORD LIMITED**Inventor(s):^(std):** PENNELL JACK FRANK**Inventor(s):** JACK FRANK PENNELL**Designated states:** DE FR GB IE

International class
 (IPC 8-9): [B65D41/48](#) (Advanced/Invention);
[B65D41/32](#) (Core/Invention)

International class
 (IPC 1-7): [B65D41/32](#) [B65D41/48](#) [B65D41/58](#)

CPC: [B65D41/485](#) [B65D2101/0038](#) [B65D2101/0053](#)**European class:** [B65D41/48B](#) [L65D101/00A3C](#) [L65D101/00A3E](#)[Classification Explorer](#)**Cited documents:** WO9113813 A1, US4899897 A, US4199071 A, GB922181 A, GB1218156 A, GB1205541 A, FR2613327 A1, FR2085533 A3, FR1514087 A, EP0395212 A1,**Forward Citations:** WO9846492, WO9611149, US5762218, GB2353519, GB2353519, EP0975525, EP0948486,**Abstract:**

Source: EP0554028A1 A tamper indicating closure (10) comprises a main body or cap portion (12) and a tearstrip portion (14) formed integrally with the main body (12), but adapted to be separable therefrom by virtue of being connected thereto by a plurality of frangible bridging portions (20). In use, the closure (10) is placed over the top of the neck (16) of a container (18) and urged downwardly, the tearstrip portion (14) flexing outwardly as a rib (26) thereof passes over the rib (17) on the neck of the container, the tearstrip (14) then contracting radially inwardly with a snap-fitting action. Simultaneously a cylindrical portion (15) of the main body enters the open neck of the container in a sliding frictional push-fit. In this manner the entire retentive operation between the closure (10) and the neck (16) is (a) between the tearstrip portion (14) and the exterior of the neck (16), such that in order for the closure (10) to be removed from the neck (16), the tearstrip portion must first be separated from the main body (12) and (b) by a sliding frictional push-fit cooperation between the neck (16) and the main body (12). In the preferred embodiment, the bridging portions (20) are located at a position in which, on the application of the closure to the container, they do not pass over the rim (17), and are hence not subjected on the application of the closure to the neck of the container to any significant stress.

4) Family number: 11043156 (US5971217A)

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Title: Liquid storing and dispensing system**Priority:** US19970996152 19971222 WO1998US26230 19981222

Family:	Publication number	Publication date	Application number	Application date
	AR017933 AA	20011024	AR1998P106559	19981221
	AU199919076 A1	19990712	AU19990019076	19981222
	CL1998003121 A1	20000313	CL19980003121	19981222
	US5971217 A	19991026	US19970996152	19971222
	WO9932393 A1	19990701	WO1998US26230	19981222
	ZA9811662 A	19990618	ZA19980011662	19981218

Probable Assignee: E AND J GALLO WINERY**Assignee(s):**^(std): GALLO WINERY E AND J**Assignee(s):** E AND J GALLO WINERY**Inventor(s):**^(std): HAASNOOT RICHARD D ; VISOLA JOSEPH E**Inventor(s):** JOSEPH E VISOLA ; JOSEPH EVISOLA RICHARD DHAASNOOT ; RICHARD D HAASNOOT**Agent(s):** PORZIO**Designated states:** AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT JP LU MC NL NZ PT SE**International class**
^(IPC 8-9): [B65D1/02 B65D47/24 B67D3/00 B67D3/04](#) (Advanced/Invention);
[B65D1/02 B67D3/00](#) (Core/Invention)**International class**
^(IPC 1-7): [B65D B65D1/02 B65D25/24 B65D90/02 B67D5/06](#)**CPC:** [B65D1/0223 B65D2501/0081 B67D3/0019 B67D3/0029 B67D3/044](#)**European class:** [B65D1/02D B67D3/00E B67D3/00H B67D3/04D1 L65D501/02Y9](#)**US class:** [215/379 220/638 222/185.1](#)[Classification Explorer](#)**Cited documents:** US5499730 A, US5350078 A, US5337775 A, US5211313 A, US5123460 A, US5122399 A, US5118015 A, US5067622 A, US5050757 A, US4949861 A, US4928860 A, US4925068 A, US4911334 A, US4877142 A, US4871096 A, US4869370 A, US4844290 A, US4802610 A, US4709821 A, US4475566 A, US4471807 A, US4452425 A, US4257558 A, US4193524 A, US4105141 A, US3885698 A, US3805995 A, US3757984 A, US3589542 A, US3474927 A, US3460715 A, US3378035 A, US3348848 A, US3329164 A, US3308224 A, US3223296 A, US3217950 A, US3195752 A, US3067890 A, US3054535 A, US279915 A, US2793788 A, US2702563 A, US2537468 A, US2197352 A, US1595040 A,**Forward Citations:** WO15138697, USD667947, USD650067, USD624823, USD599169, US9580292, US7048147, US2010264148, US2010126956, US2010005811, US2009301990, US2005072798, NL1016651, GB2353266, GB2353266, FR2801276, FR2797624, CN105980290, BE1014242,**Abstract:**

Source: US5971217A A liquid storage and dispensing device includes a bottle and a fluid flow control device which is mounted to the neck of the bottle. The bottle includes a planar surface upon which the bottle may rest in an inclined orientation, with the neck of the bottle pointed down. The planar surface is formed at an angle with respect to the rest of the bottle geometry so that the center of gravity of the bottle, when full of liquid and in the inclined orientation, is above the planar surface. Thus, the full bottle is able to be safely stored in the inclined orientation with any level of liquid contained in the bottle, without concern that the bottle will topple over, and the liquid contents may be dispensed through the fluid flow control device.

5) Family number: 25118040 (US3229840A)

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Title: Refillable bottle for the retail packaging of liquids
Priority: FR19630943694 19630803 FR19640962275 19640131 FR19640970122 19640408
Family:

Publication number	Publication date	Application number	Application date
AT256653 B	19670911	AT19640006678	19640803
BE651229 A	19641116		19640731
CH426526 A	19661215	CH19640009978	19640730
DE1294250 B	19690430	DE1964F043651	19640803
FR1403634 A	19650625	FR19630943694	19630803
FR85706 E	19651001	FR19640962275	19640131
FR85714 E	19651001	FR19640970122	19640408
GB1073177 A	19670621	GB19640031690	19640804
IL21811 A1	19680620	IL19640021811	19640802
LU46658 A	19640930		19640730
MC474 A	19650302	MC19640000507	19640727
NL6408685 A	19650204	NL19640008685	19640729
NO116354 B	19690310	NO19650157559	19650407
OA278 A	19660515	OA19640050255	19640812
US3229840 A	19660118	US19640386542	19640731

Probable Assignee: FILLEUL A**Assignee(s):**^(std) ALBERT FILLEUL ANDRE ; ANDRE ALBERT FILLEUL ; FILLEUL ANDRE ALBERT ; FILLEUL A**Inventor(s):**^(std) ANDRE ALBERT FILLEUL ; ALBERT FILLEUL ANDRE ; FILLEUL ANDRE ALBERT**International class**
^{(IPC 8-9) :} [B65D1/06 B65D23/00 B65D23/02 B65D77/04 B65D77/06 B65D81/32](#) ^(Advanced/Invention) ;
[B65D1/06 B65D23/00 B65D77/04 B65D77/06 B65D81/32](#) ^(Core/Invention)**International class**
^{(IPC 1-7) :} [B29C17/07 B65D1/02 B65D23/00 B65D23/02 B65D23/08 B65D39/08 B67B](#)**CPC:** [B65D1/06 B65D23/00 B65D23/02 B65D77/0486 B65D77/06 B65D81/32 B65D81/3238](#)**European class:** [B65D1/06 B65D23/00 B65D23/02 B65D51/22 B65D77/04F1 B65D77/06 B65D81/32 B65D81/32D1](#)**US class:** [215/12.1 215/2](#)[Classification Explorer](#)**Cited documents:** US2885104 A, US2881935 A, US2859891 A, FR1296420 A, FR1162300 A,**Forward Citations:** WO9943563, WO04028921, USD788545, USD718632, USD717172, USD688531, USD685615, USD676717, US9637270, US9505527, US8875922, US8511493, US8196764, US7669725, US7614516, US6641881, US6554155, US6203870, US5390804, US5086937, US4510769, US2017073110, US2011303633, US2010102019, US2005056610, CN105600059, AU738636,**Abstract:**

Source: GB1073177A 1,073,177. Bottles; stoppers. A. A. FIL. LEUL. Aug. 4, 1964 [Aug. 3, 1963; Jan. 31, 1964; April 8, 1964], No. 31690/64. Headings B8D and B8T. A composite bottle is formed from an outer casing (1), Fig. 1, of glass open at the base, a replaceable inner container (4) of flexible plastics and a push-on base member (6) of rigid plastics, the container (4) having a top portion which may be cut off to dispense the contents and reclosed by means of a screw-plug 15, Fig. 2, A securing member of plastics, may be rotated by means of a knurled part 13 thereby raising the container, (4) on a screw-thread (11) until its top portion assumes the position shown in interrupted lines. The closure may have a hollow portion to accommodate the top part of the container (4), Figs. 3 and 4. The container (4) may have a compartment (37), Fig. 6, with a weakened wall (38) to which a tie is attached, enabling the wall to be ruptured and the contents to be mixed into the container. The container (4) may be filled through a hollow appendage (4a), Fig. 5, which is subsequently welded or heat-sealed (at 36).

6) Family number: 20810360 (US3092280A)

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Title: CROWN CAPS

Priority: FR19590797114 19590610 GB19580018663 19580611 GB19580018664 19580611
 GB19580022029 19580709 GB19580027653 19580828 GB19580037782 19581124

Family:	Publication number	Publication date	Application number	Application date
	BE579536 A	19591001	BE19590579536	19590610
	BE579536 A1	19591001	BE19590579536	19590610
	CH370664 A	19630715	CH19590074320	19590611
	DE1141905 B	19621227	DE1959F028624	19590605
	DE1877377 U	19630808	DE1959F016844U	19590605
	ES250014 A1	19600116	ES19590250014	19590609
	FR1267161 A	19610721	FR19590797114	19590610
	GB884126 A	19611206	GB19580018663	19580611
	NL239999 A	00000000		00000000
	US3092280 A	19630604	US19590818753	19590608

Probable Assignee: FORDS LTD**Assignee(s):**^(std): FORDS FINSBURA LTD ; FORDS FINSBURY LIMITED ; FORDS LTD**Assignee(s):** FORDS FINSBURA LIMITED ; FORDS FINSBURY LTD ; FORDS LIMITED**Inventor(s):**^(std): EWART FORD RALPH ; FORD RALPH EWART ; RALPH EWART FORD

International class
 (IPC 8-9): [B21D51/46 B65D41/12](#) (Advanced/Invention);
[B21D51/38 B65D41/02](#) (Core/Invention)

International class
 (IPC 1-7): [B21D51/46 B65D41/12 B65D53/02](#)

CPC: [B21D51/48 B65D41/12](#)**European class:** [B21D51/46 B21D51/48 B65D41/12](#)**US class:** [215/328 215/352](#)[Classification Explorer](#)

Cited documents: US2765943 A, US2548305 A, US2528506 A, US2484039 A, US2481111 A, US2463701 A, US2444978 A, US2327454 A, IT518183 A, FR64292 E, FR1162864 A, FR1101056 A, FR1101055 A, FR1047061 A, DE953137 A,

Forward Citations: USD649395, USD587579, USD586539, USD524083, USD521259, US8322549, US5639525, US4337871, US3675805, US3447710, US3380609, US3273736, US3216602, US2015232236, US2011253666, US2010264109, US2009186304, DE9103212, DE4440852, DE4440852,

Abstract:

Source: GB884126A 884,126. Crown caps. FORDS (FINSBURY) Ltd. May 26, 1959 [June 11, 1958 (2); July 9, 1958; Aug. 28, 1958; Nov. 24, 1958], Nos. 18663/58, 18664/58, 22029/58 and 27653/58. Class 125(3). A crown cap has an annular sealing gasket 5 of a resilient or deformable sealing compound, e.g. a rubberized compound, applied internally in a semi-liquid state so that it does not adhere firmly to the cap but, under internal gas pressure from the contents of a bottle to which the cap is secured, is able to deform by sliding on the surface of the cap and thereby to increase its sealing action. The sealing compound may be squirted on through a nozzle, as the cup is rotated, and subsequently dried. The interior of the cap may be coated with a protective coating, e.g. a lacquer made from epoxy-phenolic resins to which the gasket will not adhere; and a protective coating of, e.g. vinyl lacquer, which is adhesive, may be applied to the interior of the cap at the same time as the compound, a drop of the lacquer being dispersed from a point at the centre of the cap by centrifugal force but not so far that it covers the sealing compound. In a modification, Fig. 6, a second gasket 10 of sealing compound is applied, this gasket being adhered to the skirt on a vinyl lacquer. Specification 807,074 is referred to.

0) US2003161980A – PLASTIC CONTAINER

7) Family number: 29866499 (US2003161980A)

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Title: PLASTIC CONTAINER

Priority: CA20032420434 20030226 CA20032555513 20030226 CA20032750061 20030226
US20020083975 20020227 US20030178207F 20030321 US20020083975F 20020227
US20090433633 20090430

Family:	Publication number	Publication date	Application number	Application date	
	CA2420434 AA	20030827	CA20032420434	20030226	
	CA2420434 C	20111011	CA20032420434	20030226	
	CA2555513 AA	20030827	CA20032555513	20030226	
	CA2555513 C	20090811	CA20032555513	20030226	
	CA2750061 AA	20030827	CA20032750061	20030226	
	EP1344720 A2	20030917	EP20030251193	20030227	
	MXPA03001760 A1	20041029	MX2003PA01760	20030227	
	US2003161980 AA	20030828	US20020083975	20020227	
	US2010084359 AA	20100408	US20090433633	20090430	
	USD482978 S1	20031202	US20030178207F	20030321	

Probable Assignee: TROPICANA PROD INC

Assignee(s):^(std): TROPICANA PROD INC

Assignee(s): TROPICANA PRODUCTS INC ; NELSON BRENT S

Inventor(s):^(std): NELSON BRENT S ; BRENT NELSON S

Agent(s): MACRAE AND CO; BANNER AND WITCOFF LTD AND ATTORNEYS FOR CLIENT NO 006943

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

International class
(IPC 8-9): [B32B27/08](#) [B32B27/28](#) [B32B27/30](#) [B32B27/32](#) [B32B27/34](#) [B65D1/02](#) [B65D23/00](#)
[B65D90/02](#) (Advanced/Invention);
[B32B27/08](#) [B32B27/28](#) [B32B27/30](#) [B32B27/32](#) [B32B27/34](#) [B65D1/02](#) [B65D23/00](#)
[B65D90/02](#) (Core/Invention)

International class
(IPC 1-7): [B32B1/02](#) [B65D0/0](#) [B65D0/0000](#) [B65D1/02](#) [B65D79/00](#)

CPC: [Y10T428/1352](#) [Y10T428/1383](#) [B65D1/0215](#) [B32B27/08](#) [B32B27/30](#) [B32B27/32](#) [B32B27/34](#)
[B65D2501/0081](#)

European class: [B32B27/08](#) [B32B27/30](#) [B32B27/32](#) [B32B27/34](#) [B65D1/02B1](#) [L65D501/02Y9](#)

US class: [215/12.1](#) [215/382](#) [428/35.7](#) [428/36.7](#) [D9/560](#) [D9/563](#)

[Classification Explorer](#)

Cited documents: USRE34546 E, USD471466, USD468645, USD463287, USD435649, USD435455, USD428576, USD426469, USD425793, USD423366, USD422915, USD419886, USD383070, USD380158, USD347391 S1, USD344284, USD337274, USD316967, USD294120 S1, USD266741, USD245068, USD241713, USD217129, USD211683, USD188074, USD187399, USD166731, US7496806 BB, US7453778 BB, US7447952 BB, US7428670 BB, US7417927 BB, US7414939 BB, US7400563 BB, US7400562 BB, US7372793 BB, US7360126 BB, US7327654 BB, US7151725 BB, US6724701 BB, US6606285 BA, US6594209 BB, US6579580 BA, US6575321 BB, US6575320 BB, US6564345 BA, US6480446 BA, US6439413 BA, US6385148 BB, US6347717 BA, US6314178 BA, US6224956 BA, US6223945 BA, US6223920 BA, US6218024 BA, US6203870 BA, US6194043 BA, US6193827 BA, US6118755 A, US6083450 A, US6065624 A, US6062409 A, US6044997 A, US6044996 A, US6036037 A, US6016932 A, US5971184 A, US5908128 A, US5897901 A, US5859823 A, US5780130 A, US5762221 A, US5740934 A, US5735420 A, US5716715 A, US5704504 A, US5704503 A, US5693283 A, US5622735 A, US5618599 A, US5616353 A, US5553045 A, US5534351 A, US5491009 A, US5480945 A, US5474735 A, US5472105 A, US5341946

A, US5337909 A, US5303834 A, US5279433 A, US5261544 A, US5255889 A, US5248634 A, US5238129 A, US5222615 A, US5212677 A, US5202876 A, US5199588 A, US5178289 A, US5175036 A, US5111444 A, US5094921 A, US5092475 A, US5092474 A, US5067622 A, US5064081 A, US5054632 A, US5037684 A, US5011648 A, US4990382 A, US4983719 A, US4949326 A, US4946053 A, US4937130 A, US4936473 A, US4927680 A, US4877141 A, US4868026 A, US4863046 A, US4818575 A, US4749092 A, US4743479 A, US4738857 A, US4610366 A, US4560077 A, US4497855 A, US4391863 A, US4387816 A, US4182457 A, US3923178 A, US34546 A, US3225950 A, US2005025003 AA, US2004223440 AA,

Forward Citations: USD796957, USD794468, USD788383, USD742242, USD727736, USD675101, USD670562, USD667731, USD666496, USD662823, USD659545, USD655182, USD655181, USD655180, USD655179, USD655176, USD653957, USD648219, USD647406, USD645753, USD637494, USD632182, USD631753, USD586658, USD586657, USD507489, USD503620, USD502403, US8567624, US8083081, US8047390, US7673765, US2010326951, US2009294399, US2009014407, US2006207962, TWD139768,

Abstract:

Source: US2003161980A A plastic container, especially suitable for long-term storage of beverages that are hot filled into the containers, having in one embodiment four relatively flat vacuum panels, having in another embodiment a seven layer polymeric material with a nylon interior layer, and having in another embodiment a combination of the other embodiments.

8) Family number: 30319675 (US2005284302A)

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Title: PORTABLE BEVERAGE PREPARATION DEVICE AND SYSTEM

Priority: EP20030784460 20030807 IL20050166689 20050203 US20020401810P 20020808
US20050522982 20050711 WO2003IL00658 20030807

Family:	Publication number	Publication date	Application number	Application date
	<u>AT556943 E</u>	20120515	AT20030784460T	20030807
	<u>AU2003249558 AA</u>	20040225	AU20030249558	20030807
	<u>AU2003249558 BB</u>	20100311	AU20030249558	20030807
	<u>CA2495063 AA</u>	20050208	CA20032495063	20030807
	<u>CA2495063 C</u>	20110322	CA20032495063	20030807
	<u>DE60340928 D1</u>	20120705	DE20036040928	20030807
	<u>EP1539594 A2</u>	20050615	EP20030784460	20030807
	<u>EP1539594 A4</u>	20090311	EP20030784460	20030807
	<u>EP1539594 B1</u>	20120509	EP20030784460	20030807
	<u>IL166689 A0</u>	20060115	IL20050166689	20050203
	<u>IL166689 A1</u>	20100630	IL20050166689	20050203
	<u>US2005284302 AA</u>	20051229	US20030522982	20030807
	<u>US7552673 BB</u>	20090630	US20030522982	20030807
	<u>WO04014739 A2</u>	20040219	WO2003IL00658	20030807
	<u>WO04014739 A3</u>	20040513	WO2003IL00658	20030807

Probable Assignee: CONCEPT AND DESIGN LTD

Assignee(s):^(std): CONCEPT AND DESIGN LTD ; LEVIN SHALOM

Assignee(s): SHALOM LEVIN

Inventor(s):^(std): LEVIN SHALOM ; SHALOM LEVIN

Agent(s): PEGASUS IP; IP SOLVED ANZ PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; DORSCHNER DAVID; EDWARD LANGER; SHIBOLETH YISRAELI ROBERTS ZISMAN AND CO; EDWARD LANGER, SHIBOLETH YISRAELI ROBERTS ZISMAN AND COMPANY; EDWARD LANGER SHIBOLETH YISRAELI ROBERTS ZISMAN AND CO; EDWARD; SHIBOLET AND CO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE 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

International class
(IPC 8-9): A23L1/00 A47G19/22 A47J31/00 A47J36/24 A61J9/00 B65D1/00 B65D1/26 B65D25/08 B65D51/28 B65D81/32 B65D85/816 (Advanced/Invention);
A61J1/20 (Advanced/Non-Invention);
A23L1/00 A47G19/22 A47J31/00 A47J36/24 A61J9/00 B65D1/00 B65D1/22 B65D25/04 B65D51/24 B65D81/32 B65D85/804 (Core/Invention);
A61J1/14 (Core/Non-Invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): A23L1/00 B65D1/00 B65D25/08

CPC: B65D81/3222 A61J1/2093 A61J9/00 B65D1/265 B65D51/2828 B65D81/3216 B65D85/816 A61J1/2027 A47J31/005

European class: A47J36/24E4 A61J9/00 B65D1/26B B65D51/28B1B B65D81/32C B65D81/32C1 B65D85/816 K61J1/00M4 K61J1/20A4B K61J1/20D

US class: 426/433 99/275 99/288 99/295 99/302R 99/323.3

[Classification Explorer](#)

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Forward Citations: WO17143251, WO16012999, WO14036402, WO14024182, WO13133532, WO11049300, WO081111072, WO08111072, WO08104971, WO08104971, WO08094983, USD802349, US9723944, US9700171, US9688465, US9668606, US9428329, US9428328, US9357878, US9247846, US9038530, US8927037, US8887622, US8834948, US8820593, US8727739, US8613402, US8479639, US8180204, US8096230, US7753226, US2017099978, US2016364812, US2015140184, US2014102316, US2012321756, US2012245732, US2012103562, US2011271842, US2010272582, US2010126355, US2010112166, US2010086650, US2009007792, US2008282896, US2008236401, US2008179334, US2008148956, US2007088251, TWI581787, GB2525652, GB2525652,

Abstract:

Source: US2005284302A A portable beverage preparation device and system for making brews, mixes, and potions on demand by selectively introducing and mixing predetermined quantities of at least one stored, edible, beverage preparation confined in at least one sealed chamber into a portable beverage container containing a predetermined volume of a potable base liquid and having a dispenser means for introducing the at least one beverage preparation into the potable base liquid; wherein the drink container and the at least one sealed chamber are in close physical proximity to each other and separated by at least one thin membrane which, when inwardly perforated by the dispenser means, introduces the at least one beverage preparation into the base liquid. The system of the invention further provides a brewing element and a portable heating unit, the heater element of which fits into the beverage container for heating the liquid.

0) US2001004054A – TWO-COMPARTMENT PACKAGE

9) Family number: 30114717 (US2001004054A)

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Title: Two-compartment package

Priority: EP20000916202 20000309 EP20020729031 20020426 US19990265453 19990310
 US19970949465 19971014 NZ20010532118 20011119 EP20100181557 20000309
 US20010775486 20010201 US20000598792 20000621 WO1998US21490 19981013
 US20000592217 20000612 WO2000US06189 20000309 US20010855252 20010515
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 WO2001SE02556 20011119

Family:

Publication number	Publication date	Application number	Application date
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CA2306512 C	20070130	CA19982306512	19981013
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<u>US2002179461 AA</u>	20021205	US20020120979	20020411
<u>US6098795 A</u>	20000808	US19990265453	19990310
<u>US6105760 A</u>	20000822	US19970949465	19971014
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<u>US6513650 BB</u>	20030204	US20010855252	20010515
<u>US6769539 BB</u>	20040803	US20010992825	20011114
<u>US6786330 BB</u>	20040907	US20020120979	20020411
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<u>WO03043898 A1</u>	20030530	WO2001SE02556	20011119
<u>WO9919221 A1</u>	19990422	WO1998US21490	19981013
<u>ZA200308907 A</u>	20041123	ZA20030008907	20031114
<u>ZA200308907 A</u>	20050126	ZA20030008907	20031114

Probable Assignee: BIOGAIA AB

Assignee(s):^(std): STERN LEIF ; SJOBERG ELISABETH ; BO MOLLSTAM ; IVAN A CASAS ; MOLLSTAM BO ; CASAS IVAN A ; MAGNUSSON FREDRIK ; OBERG KARIN ; SAUER FILIP ; IVAN A ; BIOGAIA BIOLOG AB ; BIOGAIA BIOLOGICS AB ; BIOGAIA AB ; MOELLSTAM BO

Assignee(s): CASAS IVAN A RALEIGH ; BIOGAIA AB (NEW NAME) ; BIOGAIA AB NEW NAME ; BIOGAIA BIOLOGICS BOX AB ; BIOGAIA BOX AB

Inventor(s):^(std): SAUER FILIP ; STERN LEIF ; STERN L SJOBERG E MOLLSTAM B ; STERN L ; SJOBERG ELISABETH ; SJOBERG E ; MOLLSTAM B ; MOELLSTAM BO ; LEIF STERN ; KARIN OBERG ; IVAN CASAS ; IVAN A CASAS ; FREDRIK MAGNUSSON ; FILIP SAUER ; ELISABETH SJOBERG ; CASAS IVAN ; BO MOLLSTAM ; FILIP SAUDER ; MAGNUSSON BO MOLLSTAM IVAN CAS ; MAGNUSSON FREDRIK ; MOLLSTAM BO ; OBERG KARIN ; CASAS IVAN A

Inventor(s): CASAS IVAN A RALEIGH ; BO MOLLSTAM IVAN CASAS FREDRIK MAGNUSSON ; OBERG KARTIN

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; TRANSGLOBO; FAGERLIN HELENE

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

International class
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A61J1/00 A61J1/20 B65D51/28 B65D81/32 (Advanced/Non-invention);
A61J1/05 A61J7/00 B65D25/04 B65D51/24 B65D81/32 (Core/Invention);
B65D (Subclass/Invention)

International class
(IPC 1-7): A61J1/05 A61J7/00 B65D0/00 B65D1/00 B65D25/08 B65D47/36 B65D51/28 B65D81/32

CPC: B65D47/2031 A61J9/00 A61J1/2093 B65D47/38 B65D51/2814 B65D81/3205 B65D81/3211 A23C9/1234 A23L2/395 A61J1/10 A61J1/20 B65D5/748 B65D51/2821 B65D81/3222 C12N1/20 A61J1/201 A61J1/2027 A23L33/135 B65D51/28 B65D81/32

European class: A23C9/123D A23L1/30M A23L2/395 A61J1/20 A61J9/00 B65D47/20E2 B65D47/38 B65D5/74D1A B65D51/28B1 B65D51/28B1A B65D81/32B B65D81/32B1 B65D81/32C1 C12N1/20 K61J1/00M4 K61J1/10 K61J1/20A2A K61J1/20A4A K61J1/20A4B K61J1/20A4G K61J1/20D

US class: 206/219 206/222 229/103.1
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 AU2005219350, AU2002224258,

Abstract:

Source: US2001004054A A two-part container in which a first compartment for a first component and having an upper and a lower layer is mounted either within or outside a second compartment, for a second component, at the location of a port on the second compartment. Cutting means are provided for cutting both the upper and lower layer and through the port, to release the first component into the second compartment.

10) Family number: 33611796 (US2009206084A)

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Title: PROGRAMMABLE LIQUID CONTAINERS

Priority: EP20060739587 20060324 US20050594704 20050429 US20050594704P 20050429
 US20060913018 20060324 US20080913018 20081105 US20120539733 20120702
 WO2006US10878 20060324 US20140452089 20140805

Family:	Publication number	Publication date	Application number	Application date
	<u>AT532722 E</u>	20111115	AT20060739587T	20060324
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	<u>CN101247727 A</u>	20080820	CN200680023902	20060324
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	<u>EP1876901 A2</u>	20080116	EP20060739587	20060324
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	<u>JP2008539142 T2</u>	20081113	JP20080508859T	20060324
	<u>US2009206084 AA</u>	20090820	US20060913018	20060324
	<u>US2012298532 AA</u>	20121129	US20120539733	20120702
	<u>US2014346063 AA</u>	20141127	US20140452089	20140805
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	<u>WO06118697 A3</u>	20070125	WO2006US10878	20060324

Probable Assignee: IPIFINI INC**Assignee(s):^(std):** IPIFINI ; IPIFINI INC ; MARKS ANDREW S ; WOOLF TOD M ; WACHLER GLENN ; WOOLF SCOTT**Assignee(s):** IPIFINI INC SUDBURY**Inventor(s):^(std):** MARKS ANDREW S ; WACHLER GLENN ; WOOLF SCOTT ; WOOLF TOD M ; WOOLF TOD ; MARKS ANDREW ; SCOTT WOOLF ; GLENN WACHLER**Inventor(s):** ANDREW S MARKS ; WOOLF TOD M SUDBURY ; WOOLF SCOTT WEST BLOOMFIELD ; WACHLER GLENN BOCA RATON ; MARKS ANDREW S WAYLAND ; TOD M WOOLF**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; GOWLING LAFLEUR HENDERSON LLP; WINTER BRANDL FUERNISS HUEBNER ROESS KAISER POLTE PARTNERSCHAFT MBB; MATHYS AND SQUIRE; MATHYS AND SQUIRE LLP; LAHIVE AND COCKFIELD LLP FLOOR 30 SUITE 3000**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

International class A21C14/00 A21D10/02 A23C13/12 A23F3/14 A23F5/00 A23L1/221 A23L1/30 A23L2/40
^{(IPC 8-9):} A61J3/00 B65B29/02 B65D23/12 B65D25/02 B65D25/08 B65D25/20 B65D77/08
B65D81/24 B65D81/26 B65D81/28 B65D81/32 B65D85/00 B65D85/72 B65D85/76
C11B5/00 (Advanced/Invention);
A23L1/03 A23L2/52 (Advanced/Non-invention);
A21C14/00 A21D10/00 A23C13/00 A23F3/06 A23F5/00 A23L1/221 A23L1/30 A23L2/40
A61J3/00 B65B29/00 B65D25/02 B65D25/20 B65D77/00 B65D81/26 B65D81/32
B65D85/00 B65D85/72 C11B5/00 (Core/Invention)

International class A21C14/00
^{(IPC 1-7):}

CPC: A61J2200/40 A61J2200/50 A61J2200/72 A61J2205/30 A61J1/05 A61J2205/20 B65D25/08 B65D81/32 B65D81/3205

European class: B65D81/32B K61J1/05 K61J205/20 K61J205/50

US class: 156/145 156/145S 206/0.5 206/213.1 206/219 206/221 206/222 220/500 426/541 426/541S 426/586 426/586S 426/591 426/591S 426/594 426/594S 426/597 426/597S 426/648 426/648S 426/650 426/650S

Locarno class: 20/65

[Classification Explorer](#)

Cited documents: WO9961339 A1, WO04028275 A1, WO03053812 A1, WO03043898 A1, WO0105675 A1, US6976578 BA, US6926138 BA, US6874551 BA, US6679375 BA, US6675845 BB, US6620444 BA, US6620441 BA, US6541055 BA, US6379727 BA, US6372270 BA, US6209718 BA, US6092648 A, US6068751 A, US6042861 A, US6013294 A, US5997927 A, US5979647 A, US5944223 A, US5884816 A, US5845814 A, US5824012 A, US5678925 A, US5431276 A, US5381930 A, US5320248 A, US5310564 A, US5035320 A, US5032411 A, US4821895 A, US4821630 A, US4798287 A, US4785931 A, US4779722 A, US4736857 A, US4581013 A, US4292787 A, US4221291 A, US3920226 A, US3796813 A, US3779372 A, US3743520 A, US3735900 A, US3589272 A, US3404811 A, US3340873 A, US3333738 A, US3326363 A, US2931731 A, US2826338 A, US2824010 A, US2753990 A, US2092772 A, US2005109659 AA, US2005029130 AA, US2005016874 AA, US2004262331 AA, US2004195120 AA, US2004161504 AA, US2004069148 AA, US2004011679 AA, US2004007481 AA, US2003062385 AA, US2001038871 AA, US2001033881 AA, US2001001196 AA, US1957962 A, JP3098871 A2, GB2403129 A1,

DE202004000517 U1

Forward Citations: WO17049123, WO16090235, WO15177167, WO15153952, WO13059454, WO13059454, USD777039, USD767991, US9700171, US9694328, US9688465, US9428329, US9428328, US8821471, US8626327, US8550288, US2017129665, US2016159632, US2016158712, US2015360844, US2015183560, US2015140184, US2013089637, US2013040035, US2013037508, US2012296308, US2012116563, US2009130261, US2008290059, JP2011515287, ITMI20100503, EP2947026,

Abstract:

Source: US2009206084A The invention relates to liquid containers comprising a plurality of sealed additive chambers in communication with a vessel fillable with a liquid. The additive chambers comprise independently selected additives that may be added to a liquid in the container at the option of the user. The user can manually open the additive chambers of their choice and release the additive into a liquid in the vessel without destroying the integrity of the container. In this manner, the liquid containers are programmable by the users and various aspects of the liquid in the container, such as color and/or flavor, is controlled by the user.

0) ZA9303887A – INSERT FOR DRINKS CONTAINER

11) Family number: 30960413 (ZA9303887A)

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Title: INSERT FOR DRINKS CONTAINER

Priority: GB19920011814 19920604 GB19920013285 19920623 GB19920014793 19920711
GB19920015544 19920722 GB19920022745 19921029 GB19920022805 19921030
WO1993GB01159 19930601 GB19930010518 19930521 GB19930002449 19930208
WO1993GB01060 19930521

Family:

Publication number	Publication date	Application number	Application date
<u>AU199340836 A1</u>	19931230	AU19930040836	19930521
<u>AU199343392 A1</u>	19931230	AU19930043392	19930601
<u>CA2137262 AA</u>	19941202	CA19932137262	19930521
<u>CN1081994 A</u>	19940216	CN19931007250	19930621
<u>EP0642447 A1</u>	19950315	EP19930910265	19930521
<u>EP0642448 A1</u>	19950315	EP19930913265	19930601
<u>FI945709 A</u>	19950202	FI19940005709	19941202
<u>FI945709 A0</u>	19941202	FI19940005709	19941202
<u>GB2268727 A1</u>	19940119	GB19930010518	19930521
<u>GB2268727 B2</u>	19960313	GB19930010518	19930521
GB9211814 A0	19920715	GB19920011814	19920604
GB9213285 A0	19920805	GB19920013285	19920623
GB9214793 A0	19920826	GB19920014793	19920711
GB9215544 A0	19920902	GB19920015544	19920722
GB9222745 A0	19921209	GB19920022745	19921029
GB9222805 A0	19921209	GB19920022805	19921030
GB9302449 A0	19930324	GB19930002449	19930208
GB9310518 A0	19930707	GB19930010518	19930521
<u>IL105936 A0</u>	19931020	IL19930105936	19930607
<u>NO944652 A</u>	19950119	NO19940004652	19941202
<u>NO944652 A0</u>	19941202	NO19940004652	19941202
<u>WO9324382 A1</u>	19931209	WO1993GB01060	19930521
<u>WO9324383 A1</u>	19931209	WO1993GB01061	19930524
<u>WO9324384 A1</u>	19931209	WO1993GB01159	19930601
<u>ZA9303887 A</u>	19940527	ZA19930003887	19930603

Probable Assignee: COSTELLO EDWARD PETER

Assignee(s):^(std): COLEMAN CLIVE SCOTT ; COSTELLO EDWARD PETER ; COSTELLO EDWARD ROGER ; CRESSFIELD LIMITED ; DUNN ALEXANDER RICHARD ; SCOTTISH AND NEWCASTLE PLC ; PENNELL DAVID WILSON ; KERSHAW PETER FRANK ; WRAGG DAVID NEIL ; EDWARD ROGER COSTELLO ; PETER FRANK KERSHAW ; TRUETURN LIMITED

Inventor(s):^(std): COLEMAN CLIVE S ; COSTELLO EDWARD P ; COSTELLO EDWARD PETER ; DUNN ALEXANDER R ; KERSHAW PETER F ; PENNELL DAVID W ; WRAGG DAVID N ; WRAGG DAVID NEIL ; PENNELL DAVID WILSON ; KERSHAW PETER FRANK ; DUNN ALEXANDER RICHARD ; COSTELLO EDWARD ROGER ; COLEMAN CLIVE SCOTT

Inventor(s): CLIVE SCOTT COLEMAN ; ALEXANDER RICHARD DUNN ; DAVID WILSON PENNELL ; DAVID NEIL WRAGG ; EDWARD ROGER COSTELLO ; PETER FRANK KERSHAW

Agent(s): WRAYS; FETHERSTONHAUGH AND CO

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LI LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US

International class B65D6/16 B65D79/00 B65D85/72 B65D85/73 (Advanced/Invention);
(IPC 8-9): B65D79/00 B65D85/72 (Core/Invention);
B65B B65D (Subclass/Invention)

International class B65B B65D B65D25/02 B65D6/16 B65D79/00 B65D85/72
(IPC 1-7):

CPC: B65D85/73

European class: B65D79/00C B65D85/73

[Classification Explorer](#)

Cited documents: WO9200896 A1, WO9107326 A1,

Forward Citations: WO9856679, WO9856678, WO9703890, WO9703890, WO9529104, WO9525049, WO9422730, WO9414679, WO08012499, WO07081210, WO07081199, US7832184, US7806258, US6620444, US6039090, US5667832, KR101414776, GB2299978, GB2299978, GB2286812, GB2284590, GB2283225, GB2283225, GB2282792, GB2273917, GB2273917, EP0965536, EP0673855, EA014514, AU747223,

Abstract:

A beverage frothing device for a beverage container for production of a foamy dispersion of bubbles or "head" within a liquid packaged within sealed, non-resealable cans or other containers. The beverage frothing device has a fluid chamber formed by two generally hollow telescopically slidable members (301, 302) which have means for securing (308, 317) the two members (301, 302) in a telescopically compressed position. Means (314) are also provided for fluid communication between the fluid chamber and the exterior of the device in response to a predetermined reduction in the pressure external to the device. A cage arrangement with a plurality of arms (305) is disposed around the two members (301, 302) such that the arms (305) curve away from the members (301, 302) and exert a force against the insides of the beverage container when the two members (301, 302) are telescopically compressed thereby holding the device in place in the beverage container.

0) EP0801007A1 – CONTAINER WITH SEALED CLOSURE BEFORE OPENING, C...

12) Family number: 11674684 (EP0801007A1)

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Title: CONTAINER WITH SEALED CLOSURE BEFORE OPENING, CONTAINING A CONTENT AND METHOD OF PACKAGING SUCH A CONTENT

Priority: FR19960004452 19960410

Family:	Publication number	Publication date	Application number	Application date
	EP0801007 A1	19971015	EP19970400466	19970228
	FR2747371 A1	19971017	FR19960004452	19960410
	FR2747371 B1	19980522	FR19960004452	19960410

Probable Assignee: NOVEMBAL

Assignee(s):^(std): NORD EST DEV ; NOVEMBAL SA

Assignee(s): NORD EST DEVELOPPEMENT ; NOVEMBAL

Inventor(s):^(std): ROY DANIEL

Designated states: BE ES FR IT NL PT

International class
^(IPC 8-9): [B65D47/10](#) (Advanced/Invention);
[B65D47/06](#) (Core/Invention)

International class
^(IPC 1-7): [B65B29/08](#) [B65B7/28](#) [B65D41/46](#) [B65D41/50](#) [B65D47/10](#) [B65D53/00](#) [B65D81/34](#)

CPC: [B65D47/103](#)

European class: [B65D47/10A](#)

[Classification Explorer](#)

Cited documents: WO8705880 A1, US5147054 A, US4664295 A, GB2233315 A1, FR2711359 A1, FR2643875 A1,

Forward Citations: WO03062061, US7578040, US6142334, EP0965531,

Abstract:

The bottle (1) has a neck (2) delimiting an opening (3). A plastics plug (4) which seals the neck comprises a lower part (8) and a cap (9). The base part is rigidly fixed to the neck by welding in the place where the neck and base walls are applied against each other. The base comprises a tearable stopper (13) which, before tearing, provides sealed closing and, after tearing, forms a pouring opening. The cap, which is removable from the base, protects the stopper or the opening after tearing.

13) Family number: 26227608 (US2003017236A)

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Title: BOTTLE CAP WITH A CHAMBER FOR RAW MATERIAL AND PRESSURE GAS**Priority:** CA20022374538 20020305 JP20010185428 20010619

Family:	Publication number	Publication date	Application number	Application date
	CA2374538 AA	20021219	CA20022374538	20020305
	EP1270435 A2	20030102	EP20020251642	20020308
	EP1270435 A3	20030115	EP20020251642	20020308
	JP2003002350 A2	20030108	JP20010185428	20010619
	KR20020096853 A	20021231	KR20020012071	20020307
	US2003017236 AA	20030123	US20020164197	20020605

Probable Assignee: MAKITA MASAYUKI**Assignee(s):**^(std) MAKITA MASAYUKI ; TAKAHASHI HITOSHI ; TAKAHASHI MASASHI**Inventor(s):**^(std) MAKITA MASAYUKI ; TAKAHASHI HITOSHI ; TAKAHASHI MASASHI**Agent(s):** MARKS AND CLERK**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

International class
^{(IPC 8-9):} [A47G19/22](#) [A47G19/24](#) [B65D41/04](#) [B65D47/06](#) [B65D51/18](#) [B65D51/28](#)
[B65D81/32](#) (Advanced/Invention);
[B65D51/18](#) (Advanced/Non-invention);
[A47G19/00](#) [A47G19/22](#) [B65D47/06](#) [B65D51/18](#) [B65D81/32](#) (Core/Invention)

International class
^{(IPC 1-7):} [B65D41/04](#) [B65D47/06](#) [B65D51/18](#) [B65D51/28](#) [B65D81/20](#) [B65D81/32](#) [B65D85/00](#)

CPC: [A47G19/24](#) [B65D51/2864](#) [B65D51/2871](#)**European class:** [A47G19/24](#) [B65D51/28B2A](#) [B65D51/28B2A1](#)**US class:** [206/219](#) [426/115](#) [426/115P](#)[Classification Explorer](#)

Cited documents: WO0078632 A1, US6045254 A, US5947315 A, US5419445 A, US5145077 A, US4793475 A, US4615437 A, US4386696 A, US4203517 A, US3891125 A, US2002157970 AA, EP1033323 A1,

Forward Citations: WO10059889, WO08123750, WO08102981, WO08017891, WO07129116, USD705066, USD671836, US9604765, US9511912, US9346575, US9321570, US9051098, US8991596, US8944244, US8844716, US8844715, US8684208, US8671655, US8555936, US8485353, US8413802, US8365946, US8336706, US8328010, US8226126, US8104610, US7886899, US7637082, US7635012, US7607460, US7584842, US7562510, US7308915, US7159374, US2014231430, US2013233444, US2011089058, US2011042944, US2011036868, US2010288759, US2010127008, US2009255929, US2007289670, US2007289663, US2007045312, US2007039975, US2007029345, US2007017830, US2006237095, US2005155325, US2004159562, KR100973184, KR100732180, JP5351051, JP2013503795, JP2010534594, JP2004269051, EP2129593, EP2129593, EP2129593, EP2096041, EP1449786, DE102014102971, DE102006028912, DE102006028912, CN106043939, AU2012224574, AU2004287738,

Abstract:

Source: US2003017236A A bottle cap provided with a fixed portion and a movable portion which are separably screwed with each other. The fixed portion is for supporting the movable portion and has an attaching portion to an opening of a bottle and a through hole on an axial line. The movable portion has an inner plug portion which protrudes from a face thereof on the axial line and passes through the through hole. The inner plug portion is provided with a chamber for raw material and pressure gas. An opening plane at the other end of the chamber is sealed by a plug. The plug has a flange projects from the inner plug portion and is to be opened as a periphery portion of the through hole interferes the flange during relative movements of the fixed portion and the movable portion.

0) US2002012689A – METHOD OF HYDRATION; INFUSION PACKET SYSTEM(S),...

14) Family number: 20914255 (US2002012689A)

© PatBase

Title: METHOD OF HYDRATION; INFUSION PACKET SYSTEM(S), SUPPORT MEMBER(S), DELIVERY SYSTEM(S), AND METHOD(S); WITH BUSINESS MODEL(S) AND METHOD(S)

Priority: JP20010561182 20010222 US20000192242P 20000321 US20010204572 20010222
 US20000192243P 20000321 US20010963209 20010926 US20000510400 20000222
 US20070772783 20070702 US20050080947 20050316 US20100836229 20100714
 US20110986288 20110107 US20070689447 20070321 US20030204572 20030402
 US20020244699 20020916 US20120465228 20120507 WO2001US09171 20010321
 WO2002US30646 20020926 WO2003US28905 20030916 US20140153149 20140113
 WO2001US05630 20010222 WO2001US05630 20020821

Family:

Publication number	Publication date	Application number	Application date
<u>AT372938 E</u>	20070915	AT20010920648T	20010321
<u>AU2001239821 AA</u>	20010903	AU20010239821	20010222
<u>AU2001239821 BB</u>	20060817	AU20010239821	20010222
<u>AU2001239821 CA</u>	20080306	AU20010239821	20010222
<u>AU2001247679 AA</u>	20011003	AU20010247679	20010321
<u>AU200139821 A1</u>	20010903	AU20010039821	20010222
<u>AU200139821 A5</u>	20010903	AU20010039821	20010222
<u>AU200147679 A1</u>	20011003	AU20010047679	20010321
<u>AU200147679 A5</u>	20011003	AU20010047679	20010321
<u>AU2002340032 AA</u>	20030414	AU20020340032	20020926
<u>AU2003270663 AA</u>	20040430	AU20030270663	20030916
<u>BRPI0108534 A</u>	20030422	BR2001PI08534	20010222
<u>BRPI0109498 A</u>	20021217	BR2001PI09498	20010321
BRPI0109498 B1	20120207	BR2001PI09498	20010321
<u>CA2399918 AA</u>	20020815	CA20012399918	20010222
<u>CA2399918 C</u>	20120522	CA20012399918	20010222
<u>CA2401593 AA</u>	20020903	CA20012401593	20010321
<u>CA2401593 C</u>	20100622	CA20012401593	20010321
<u>CN1206133 C</u>	20050615	CN20018006928	20010321
<u>CN1262213 C</u>	20060705	CN20018005501	20010222
<u>CN1404364 A</u>	20030319	CN20018005501	20010222
<u>CN1422230 A</u>	20030604	CN20018006928	20010321
<u>CN1879507 A</u>	20061220	CN200610079957	20010222
<u>DE60130440 D1</u>	20071025	DE20016030440	20010321
<u>EA006843 B1</u>	20060428	EA20020000894	20010222
<u>EA200200894 A1</u>	20030227	EA20020000894	20010222
<u>EP1259128 A1</u>	20021127	EP20010914431	20010222
<u>EP1259128 A4</u>	20040303	EP20010914431	20010222
<u>EP1268305 A1</u>	20030102	EP20010920648	20010321
<u>EP1268305 B1</u>	20070912	EP20010920648	20010321
<u>IL151322 A0</u>	20030410	IL20010151322	20010222
<u>IL151322 A1</u>	20070308	IL20010151322	20010222
<u>IL151633 A0</u>	20030410	IL20010151633	20010321
<u>IL151633 A1</u>	20100517	IL20010151633	20010321
<u>IN203741 B</u>	20070518	IN2002MN01196	20020829
<u>JP2003528011 T2</u>	20030924	JP20010568808T	20010321

<u>JP2003534777 T2</u>	20031125	JP20010561182T	20010222
<u>JP2011098982 A2</u>	20110519	JP20110027310	20110210
<u>JP4717311 B2</u>	20110706	JP20010561182T	20010222
<u>JP4942273 B2</u>	20120530	JP20010568808T	20010321
<u>KR100689118 B1</u>	20070302	KR20027010872	20010222
<u>KR20020086556 A</u>	20021118	KR20027010872	20010222
<u>MXPA02008189 A1</u>	20040405	MX2002PA08189	20010222
<u>MXPA02009231 A1</u>	20040405	MX2002PA09231	20010321
<u>NZ520751 A</u>	20040528	NZ20010520751	20010222
<u>NZ522114 A</u>	20060428	NZ20010522114	20010321
<u>US2002012689 AA</u>	20020131	US20010963209	20010926
<u>US2003064104 AA</u>	20030403	US20020244699	20020916
<u>US2003211201 AA</u>	20031113	US20030204572	20030402
<u>US2007009576 AA</u>	20070111	US20050080947	20050316
<u>US2007160735 AA</u>	20070712	US20070689447	20070321
<u>US2008014327 AA</u>	20080117	US20070772783	20070702
<u>US2010316768 AA</u>	20101216	US20100836229	20100714
<u>US2011104336 AA</u>	20110505	US20110986288	20110107
<u>US2012282374 AA</u>	20121108	US20120465228	20120507
<u>US2014220181 AA</u>	20140807	US20140153149	20140113
<u>US6248390 BA</u>	20010619	US20000510400	20000222
<u>US6248390 C1</u>	20100824	US20000510400	20000222
<u>US7115297 BB</u>	20061003	US20020244699	20020916
<u>US7115297 C1</u>	20100928	US20020244699	20020916
<u>US7238380 BB</u>	20070703	US20010204572	20010222
<u>US7238380 C1</u>	20100824	US20030204572	20030402
<u>US7892586 BB</u>	20110222	US20070689447	20070321
<u>US8178150 BB</u>	20120515	US20070772783	20070702
<u>US8257762 BB</u>	20120904	US20110986288	20110107
<u>US8642051 BB</u>	20140204	US20010963209	20010926
<u>US8663721 BB</u>	20140304	US20120465228	20120507
<u>WO0162108 A1</u>	20010830	WO2001US05630	20010222
<u>WO0170591 A1</u>	20010927	WO2001US09171	20010321
<u>WO03028477 A2</u>	20030410	WO2002US30646	20020926
<u>WO03028477 A3</u>	20031030	WO2002US30646	20020926
<u>WO04023899 A1</u>	20040325	WO2003US28905	20030916
<u>ZA200206706 A</u>	20031128	ZA20020006706	20020821
<u>ZA200206909 A</u>	20030820	ZA20020006909	20020828

Probable Assignee: SUZANNE STILLMAN

Assignee(s):^(std): STILLMAN SUZANNE ; STILLMAN SUZANNE J ; STILLMAN SUZANNE JAFFE ; STILLMAN SUZANNE JAFFEE ; SUZANNE JAFFE STILLMAN ; SUZANNE STILLMAN

Inventor(s):^(std): STILLMAN SUZANNE JAFFE ; SUZANNE JAFFE STILLMAN ; STILLMAN SUZANNE JAFFEE ; STILLMAN SUZANNE J

Inventor(s): STILLMAN SUZANNE

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; FINLAYSON AND SINGLEHURST; JMB DAVIS BEN DAVID; PATTON BOGGS LLP, ATTORNEYS AT LAW; PATTON BOGGS LLP ATTORNEYS AT LAW; TROJAN LAW OFFICES; REED SMITH CROSBY HEAFEY LLP; WOODCOCK WASHBURN LLP; PATTON BOGGS LLP; BAKER AND HOSTETLER LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW

HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG
MK ML MN MR MW MX MZ NE 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

International class
(IPC 8-9):

A23L1/0526 A23L1/0528 A23L1/09 A23L1/226 A23L1/29 A23L1/30 A23L1/302 A23L1/304
A23L1/305 A23L1/308 A23L2/00 A23L2/38 A23L2/395 A23L2/52 A23L2/54 A23L2/56
A23L2/58 A23L2/68 A47G19/16 A47G19/22 A47G21/18 A61K31/715 A61K31/716
A61K31/717 A61K31/718 A61K31/721 A61K31/729 A61K31/731 A61K31/732
A61K31/733 A61K31/734 A61K31/736 A61K33/00 A61K36/18 A61K36/68 A61K41/00
A61K45/00 A61K45/06 A61K47/00 A61K47/02 A61K47/48 A61K9/00 A61K9/08 A61P1/00
A61P1/10 A61P1/12 A61P3/04 A61P3/06 A61P3/10 A61P37/04 A61P39/02 A61P9/14
B65D65/46 B65D77/00 B65D81/00 B65D81/32 B65D81/36 B65D85/808
B65D85/812 (Advanced/Invention);
A23L2/00 A61K9/70 (Advanced/Non-invention);
A23L1/052 A23L1/09 A23L1/29 A23L1/30 A23L1/304 A23L1/308 A23L2/00 A23L2/38
A23L2/385 A23L2/52 A47G19/00 A47G19/22 A47G21/00 A61K31/715 A61K31/716
A61K31/729 A61K31/731 A61K31/732 A61K31/733 A61K31/734 A61K31/736 A61K36/18
A61K45/00 A61K47/02 A61K47/48 A61K9/08 A61P1/00 A61P3/00 A61P37/00 A61P39/00
A61P9/00 B65D65/46 B65D77/00 B65D81/00 B65D81/32 B65D85/804 (Core/Invention);
A61K9/70 (Core/Non-invention)

International class
(IPC 1-7):

A23G3/30 A23L A23L1/29 A23L1/308 A23L2/00 A23L2/38 A23L2/52 A23L2/54 A23L2/68
A47G19/16 A47G21/18 A61F13/00 A61K31/715 A61K31/716 A61K31/717 A61K31/718
A61K31/729 A61K31/731 A61K31/732 A61K31/733 A61K31/734 A61K31/736 A61K35/78
A61K45/00 A61K47/00 A61K47/02 A61K9/08 A61K9/14 A61K9/16 A61K9/48 A61K9/70
A61P1/00 A61P1/10 A61P1/12 A61P3/04 A61P3/06 A61P3/10 A61P37/04 A61P39/02
A61P9/14 B65D15/145 B65D20/01 B65D206/5 B65D30/22 B65D424/422 B65D424/439
B65D424/443 B65D424/451 B65D424/484 B65D65/46 B65D7/304 B65D77/00 B65D81/00
B65D85/00

CPC:

A47G19/2205 B65D81/365 B65D2203/00 A23K20/10 A23K20/163 A23K50/42 A23L2/395
A61K31/715 A61K33/00 A61K41/0004 A23L33/21 A23L33/10 A23L33/40 A23L29/238
A23L29/244 A23L29/35 A23L33/30 A23P10/30 A23K50/48 B65D85/812 A23V2002/00
A47G19/2222 A61K9/70 A61K45/06 A61M2205/59 B65D81/32 B65D85/808 A23L2/58
A23L2/38 A23L2/52 A63F9/10 A63F2250/024

European class:

A23K1/16L A23K1/16M A23K1/18N2 A23K1/18N6 A23L1/00P4 A23L1/0526 A23L1/0528
A23L1/09D A23L1/29D A23L1/29F A23L1/30 A23L1/308 A23L2/38 A23L2/395 A23L2/52
A23L2/58 A47G19/22B4 A61K31/715 A61K33/00 A61K41/00D A61K45/06 B65D81/00B1
B65D81/00B1A B65D81/32 B65D81/36D B65D85/808 B65D85/812 K23V2/00 K61K9/70
K61M205/59 L65D203/00

US class:

206/0.5 424/195.18 424/195.180S 424/400 424/439 424/439P 424/490 424/490P 424/738
424/738S 426/2 426/532 426/532S 426/541 426/541S 426/573 426/590 426/590P
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514/54 514/54S 514/57 514/57S 514/58 514/58S

Locarno class:

20/65

[Classification Explorer](#)

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Forward Citations:

WO17184001, WO17098443, WO17093941, WO16112170, WO16104671, WO16096468, WO16057650, WO16028986, WO15095209, WO15077250, WO14133562, WO13119760, WO13093863, WO13059592, WO13043866, WO12036344, WO11150098, WO11139811, WO11139684, WO09132320, WO09021834, WO09007854, WO09007854, WO07113008, WO07113008, WO07106675, WO07098593, WO07087517, WO07087517, WO06087232, WO06065255, WO06041021, WO06022544, WO05074713, WO04086885, WO04023898, WO04023898, WO03090673, WO03090673, USD794074, USD780597, USD773313, US9803163, US9771199, US9723861, US9704096, US9700808, US9675651, US9655380, US9643773, US9613098, US9580680, US9554970, US9516894, US9462815, US9456916, US9446100, US9427000, US9420807, US9415083, US9404162, US9392814, US9345267, US9307860, US9302090, US9275356, US9272009, US9271958, US9139360, US9126704, US9113647, US9108340, US9101160, US9067070, US9061824, US9044049, US9034834, US9027567, US9017666, US9016037, US9011365, US8999409, US8969321, US8956677, US8950408, US8906277, US8900498, US8900497, US8871266, US8865646, US8864784, US8863755, US8858496, US8845673, US8843082, US8791065, US8790734, US8765167, US8747562, US8744363, US8733368, US8728815, US8701679, US8696893, US8685478, US8678015, US8671952, US8663721, US8662087, US8652378, US8642051, US8626327, US8623841, US8616221, US8603557, US8597714, US8518469, US8461131, US8440248, US8424541, US8409585, US8377215, US8338389, US8293299, US8283338, US8273380,

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Abstract:

Source: US2002012689A Liquid activated infusion packet(s)/system, promoting hydration, containing active and/or inactive ingredients and/or a support member(s). Infusion Packet(s)/System is one or more individual compartments, and/or group(s), whereby the enveloping material(s) may be totally or partially dissolvable, edible, transparent, opaque, decorated, etc. Further, including of one or more: color(s), flavor(s), aroma(s), pharmaceutical(s), nutraceutical(s), dietary supplement(s), enzyme(s), pre/pro-biotic(s), amino-acid(s), soluble-fiber(s), diagnostic agent(s) etc. regardless of form, +/- effervescence, +/- uniform/controlled-release encapsulations into liquid for humans and/or animals. Enveloping material may be in whole and/or in combination; non-synthetic/porous, and/or synthetic porous/non-porous with deliberate perforations. Infusion Packet(s)/System +/- tag, support member for assistance, consumer compliance: promotion, advertising, education, entertainment, (toy/game), etc. Manual and/or power operated parts, lights, noise, etc. Additionally incorporated; unique business modalities with test market opportunities and/or the ability to provide income and/or esteem for the health challenged.

15) Family number: 32253302 (FR2870524B)

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Title: BOUCHON VISSE A LEVRE D'ETANCHEITE**Priority:** FR20040005398 20040518

Family:	Publication number	Publication date	Application number	Application date
	<u>DE202005008024 U1</u>	20050825	DE200520008024U	20050518
	<u>FR2870524 A1</u>	20051125	FR20040005398	20040518
	<u>FR2870524 B1</u>	20070810	FR20040005398	20040518

Probable Assignee: ERCA FORMSEAL SA**Assignee(s):^(std):** ERCA FORMSEAL S A ; ERCA FORMSEAL SA**Assignee(s):** ERCA FORMSEAL SOC ANONYME ; ERCA FORMSEAL SOCIETE ANONYME ; ERCA FORMSEAL**Inventor(s):^(std):** COOPER TIMOTHY ; MICHELLON BERNARD**Inventor(s):** TIMOTHY COOPER ; BERNARD MICHELLON**Agent(s):** CABINET BEAU DE LOMENIE

International class B65D41/04 B65D41/08 B65D43/04 B65D51/20 B65D53/02 B65D53/06 (Advanced/Invention);
 (IPC 8-9): B65D41/04 B65D43/02 B65D51/18 B65D53/00 (Core/Invention)

International class B65D41/04 B65D41/08 B65D43/04 B65D53/02 B65D53/06
 (IPC 1-7):

CPC: B65D41/0421 B65D51/20**European class:** B65D41/04B1A B65D51/20[Classification Explorer](#)**Cited documents:** US6044994 A, US2003057176 AA, FR2503672 A1, DE8015098 U,**Abstract:**

The screw cap for bottles of milk drinks or fruit juice has a peripheral rib (31) on the lower side of its top (28). This rests on the rim (16) of the bottle when the cap is screwed on. A concentric lip (32) inside the rib rests against the inner surface (19) of the rim to improve sealing.

16) Family number: 3071348 (US4846359A)

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Title: Multi-layered plastic bottle having integrally formed handle and method of making**Priority:** US19870134643 19871218

Family:	Publication number	Publication date	Application number	Application date
	<u>GB2211165 A1</u>	19890628	GB19880029391	19881216
	GB8829393 A0	19890201	GB19880029393	19881216
	<u>US4846359 A</u>	19890711	US19870134643	19871218

Probable Assignee: BEVERAGES HOLDINGS LLC**Assignee(s):^(std):** PROCTER AND GAMBLE ; REDLAND INFORMATION SYSTEMS LI

Assignee(s): SUNNY DELIGHT BEVERAGES CO ; UBS STAMFORD BRANCH AG ; BEVERAGES HOLDINGS LLC ; COMERICA BANK ADMINISTRATIVE AGENT AS ; COMERICA BANK AS ADMINISTRATIVE AGENT ; ELATIONS CO LLC ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; SD IP HOLDINGS CO ; UBS AG ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTOR AND GAMBLE COMPANY ; REDLAND INFORMATION SYSTEMS LIMITED

Inventor(s):^(std): BAIRD JAMES C ; BAIRD JAMES CLARK ; JAPIKSE CORNELIS H ; JAPIKSE CORNELIS HENDRIKUS ; QUIGLEY STEVEN F ; QUIGLEY STEVEN FRANCIS ; SIMPSON EDWARD J ; SIMPSON EDWARD JAMES

Inventor(s): STEVEN FRANCIS QUIGLEY ; CORNELIS HENDRIKUS JAPIKSE ; EDWARD JAMES SIMPSON ; JAMES CLARK BAIRD

International class B29C49/22 B65D1/02 (Advanced/Invention)
(IPC 8-9):

International class B29C49/22 B29K23/00 B29K67/00 B65D1/02 B65D23/02 B65D23/08 B65D23/10
(IPC 1-7):

CPC: B29B2911/14593 B29C49/22 B29K2105/26 B65D1/0215**European class:** B29C49/22 B65D1/02B1 L29B911/14F2 L29K105/26**US class:** 215/12.2 215/398[Classification Explorer](#)

Cited documents: US4720425 A, US4705708 A, US4656094 A, US4649004 A, US4568261 A, US4552396 A, US4535901 A, US4528219 A, US4522775 A, US4501781 A, US4393106 A, US4372455 A, US4327052 A, US4256231 A, US4149645 A, US4109813 A, US4092391 A, US4079850 A, US3955697 A, US3940001 A, US3925591 A, US3898310 A, US3882259 A, US3804663 A, US3547294 A, US3457337 A, US3322869 A, US3140004 A, US3120679 A, US3113831 A, US3082484 A, US3023461 A, US2781551 A,

Forward Citations: WO9947338, WO9529805, WO12094440, WO11011081, WO04033319, WO04033319, WO0112515, USD623955, USD619468, USD612247, USD471464, USD427076, USD418423, US9669575, US9650169, US9637300, US9598533, US9522773, US9446551, US9211993, US9181388, US8979524, US8893908, US8650839, US8507061, US8301511, US8282876, US8251236, US8100277, US8027882, US7798359, US7780024, US7766178, US7647249, US7644902, US7628285, US7510391, US7431170, US7390187, US7297308, US7150371, US6960375, US6910596, US6889858, US6632493, US6527133, US6464106, US6431401, US6269962, US6243936, US6223945, US5954216, US5928798, US5833115, US5804305, US5780128, US5750226, US5651933, US5500261, US5366101, US5320889, US5315811, US5197602, US2013243896, US2012318767, US2012306117, US2012305575, US2010076869, US2009095703, US2008254245, US2007087076, US2007087074, US2007045224, US2007023978, US2006266729, US2006195364, US2006065619, US2005142312, US2005139574, US2004241360, US2004065636, US2004022982, US2003173328, US2003155324, GB2432351, GB2366781, GB2305906, GB2251845, GB2251845, EP1073554, DE4415549,

Abstract:

Source: US4846359A A multi-layered, handled plastic bottle that substantially resists the absorption and oxidation of essential oils, flavoring components, and nutritional components, e.g. peel oil, d-limonene, and

l-ascorbic acid (Vitamin C), found in various beverages such as fruit juices and particularly citrus juices. In a particularly preferred embodiment, the plastic bottle having an integrally-formed handle is made by blow-molding an extruded parison having an outer polyolefin layer, and intermediate adhesive layer, and an inner product-contacting layer of a polyester material such as polyethylene terephthalate. In another particularly preferred embodiment, the plastic bottle is extrusion blow-molded from a four-layer parison comprised of an outer polyolefin layer, an intermediate adhesive layer, an inner polyester layer, and a scrap or regrind layer comprised of a blend of these three layers recovered from the flash removed from the finished bottle. Also disclosed is a method of and an apparatus for making multi-layered, handled plastic bottles of the present invention.

0) US4816273A – PROCESS OF PREPARING FROZEN JUICE PRODUCT

17) Family number: 24045760 (US4816273A)

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Title: Process of preparing frozen juice product
Priority: US19860863449 19860515 US19880191850 19880503 US19900531450 19900530
Family:

Publication number	Publication date	Application number	Application date
EP0246156 A2	19871119	EP19870401075	19870513
EP0246156 A3	19890823	EP19870401075	19870513
US4816273 A	19890328	US19880191850	19880503
USRE35038 E	19950919	US19900531450	19900530

Probable Assignee: FRESH JUICE INC

Assignee(s):^(std): FRESH JUICE INC ; FRESH JUICE CO INC ; FRESH JUICE COMPANY

Assignee(s): THE FRESH JUICE COMPANY ; THE FRESH JUICE COMPANY INC ; BANK OF AMERICA NA ; BANK OF AMERICA NA INDEPENDENCE CENTER ; FLEET BANK NA ; FRESH JUICE CO

Inventor(s):^(std): SCHAFLE ERIC ; SMITH STEVEN

Designated states: BE DE ES FR GB

International class
^{(IPC 8-9):} [A23L2/42 A23L3/36 B65B25/00 B65B63/08 B65D81/18](#) (Advanced/Invention);
[A23L2/42 A23L3/36 B65B25/00 B65B63/00 B65D81/18](#) (Core/Invention)

International class
^{(IPC 1-7):} [A23L2/16 A23L3/36 B65B63/08 B65D81/18](#)

CPC: [A23L2/42 A23L3/364 B65B63/08 B65D81/18 B65B25/001](#)

European class: [A23L2/42 A23L3/36F2 B65B25/00A B65B63/08 B65D81/18](#)

US class: [215/1C 215/381 215/383 215/400 426/115 426/393 426/524 426/599](#)

[Classification Explorer](#)

Cited documents: WO8404232 A1, US4197954 A, US3430805 A, US2117215 A, US1990779 A, US1980695 A, US1775549 A, GB1074162 A, FR1326132 A, EP0115380 A1, DE2307749 A1,

Forward Citations: WO04026699, WO04026699, USD531042, USD529750, USD467806, USD427905, US7913878, US7784205, US6997336, US6460714, US6347717, US6190718, US6062409, US4925686, US4913282, US2004104195, US2002182302, EP0356668,

Abstract:

Source: US4816273A A process for producing a frozen whole juice product, in which juice is frozen in plastic containers that have substantially planar faces after freezing.

18) Family number: 48765779 (US2011089136A)

© PatBase

Title: FRUIT HOLDER**Priority:** US20090589278 20091021

Family:	Publication number	Publication date	Application number	Application date
	<u>US2011089136 AA</u>	20110421	US20090589278	20091021
	<u>US8225950 BB</u>	20120724	US20090589278	20091021

Probable Assignee: LE TUBE CUSTOM CIGAR TUBES LLC**Assignee(s):^(std):** FUKAI BRIAN ; LE TUBE CUSTOM CIGAR TUBES LLC ; LETUBE CUSTOM CIGAR TUBES LLC**Inventor(s):^(std):** FUKAI BRIAN**Agent(s):** ARTHUR W; DAVID W**International class** A47J19/02 B65D23/12 B67B7/44 B67C11/02 (Advanced/Invention)
(IPC 8-9):**CPC:** A47G21/00**European class:** A47G21/00**US class:** 141/337 215/386 81/3.09 99/508[Classification Explorer](#)

Cited documents: USD488226 S1, USD409747 S1, USD282807 S1, USD251405 S1, USD172571 S1, US992667 A, US870124 A, US7698767 BB, US6550271 BB, US6425424 BA, US6056206 A, US5782276 A, US5727321 A, US5647415 A, US564595 A, US562125 A, US4598435 A, US4433597 A, US4334557 A, US3602396 A, US3464344 A, US3021977 A, US2812784 A, US2781069 A, US2411384 A, US2370931 A, US2327077 A, US2079193 A, US2010084042 AA, US2008245190 AA, US2008053566 AA, US1861426 A, US170888 A, US1416101 A, CN201641528 U,

Forward Citations: USD701355, US2009188397, CN104058146,**Abstract:**

Source: US2011089136A A fruit holder for removable attachment to the top of an open bottle such as, for example, an open beer bottle. The fruit holder is characterized by its construction including a bottle top engaging portion in fluid communicating relation to a beverage contained by the bottle, a funnel portion integrally formed above the bottle top engaging portion, and a wedge holder integrally formed on a segment of the funnel and extending outwardly from the funnel so that a fruit wedge may be placed and held on the wedge holder and juice from the fruit wedge, when squeezed, will flow along the wedge holder into the funnel, and through the bottle top engaging portion to the beverage contained by the bottle.

0) EP1566338A1 – USE OF A TWO-PART BOTTLE TO PRODUCE A DRINKABLE...

19) Family number: 32178573 (EP1566338A1)

© PatBase

Title: Use of a two-part bottle to produce a drinkable mixture

Priority: EP20040003519 20040217

Family:	Publication number	Publication date	Application number	Application date
	<u>DE502004005748 D1</u>	20080131	DE200450005748T	20040217
	<u>EP1566338 A1</u>	20050824	EP20040003519	20040217
	<u>EP1566338 B1</u>	20071219	EP20040003519	20040217

Probable Assignee: SCHELLBERG RAINER BIELINSKI RAINER H SCHOENE ULRIC

Assignee(s):^(std): BIELINSKI RAINER H ; SCHELLBERG RAINER ; SCHOENE ULRICH

Assignee(s): SCHELLBERG RAINER BIELINSKI RAINER H SCHOENE ULRIC

Inventor(s):^(std): BIELINSKI RAINER H ; SCHELLBERG RAINER ; SCHOENE ULRICH

Designated states: DE

International class
(IPC 8-9): [B65D1/06 B65D81/32](#) (Advanced/Invention);
[B65D1/06 B65D81/32](#) (Core/Invention)

International class
(IPC 1-7): [B65D1/06 B65D81/32](#)

CPC: [B65D81/3211](#)

European class: [B65D81/32B1](#)

[Classification Explorer](#)

Cited documents: WO03093135 A1, US6450368 BA, US5402907 A, US5277303 A, AU426828 B2, AU426828,

Forward Citations: WO08067656, ITBZ20130001, GB2424410, FR3049936, DE102010011535, DE102010011535, DE102006008003,

Abstract:

The bottle unit has a first bottle (1) and a second bottle (2). The first bottle has an outlet aperture (3) at the top, with a cap (4). The first bottle also has a lower filling aperture (7) with a closing element (8). The second bottle has an upper connecting aperture (10) with a cap. The two drink components can be mixed via the connection between the connecting aperture of the second bottle and the filling aperture of the first bottle.

20) Family number: 53957311 (US2014308405A)

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Title: OXYGEN-ABSORBING RESIN COMPOSITION AND OXYGEN-ABSORBING MOLDED ARTICLE USING SAME AND MULTILAYER BODY, CONTAINER, INJECTION-MOLDED ARTICLE AND MEDICAL CONTAINER USING THESE

Priority: EP20120852006 20121122 JP20110257821 20111125 JP20120223276 20121005
 JP20120224914 20121010 JP20120228313 20121015 JP20120228749 20121016
 JP20120229009 20121016 JP20120231790 20121019 JP20120231635 20121019
 JP20120231636 20121019 JP20120235091 20121024 JP20120235092 20121024
 JP20120235248 20121025 JP20120235249 20121025 JP20120235409 20121025
 JP20120237569 20121029 JP20120238926 20121030 JP20120238927 20121030
 JP20120238928 20121030 JP20120238929 20121030 WO2012JP80395 20121122

Family:

Publication number	Publication date	Application number	Application date
CN103958604 A	20140730	CN201280057913	20121122
CN103958604 B	20160504	CN201280057913	20121122
DK2784120 T3	20170821	DK20120852006T	20121122
EP2784120 A1	20141001	EP20120852006	20121122
EP2784120 A4	20150722	EP20120852006	20121122
EP2784120 B1	20170705	EP20120852006	20121122
ES2641259 T3	20171108	ES20120852006T	20121122
IN04745CN2014 A	20150918	IN2014CN04745	20140624
JP2013129817 A2	20130704	JP20120235091	20121024
JP2014073869 A2	20140424	JP20120223276	20121005
JP2014076820 A2	20140501	JP20120224914	20121010
JP2014079926 A2	20140508	JP20120228313	20121015
JP2014079937 A2	20140508	JP20120228749	20121016
JP2014080209 A2	20140508	JP20120229009	20121016
JP2014082941 A2	20140512	JP20120231635	20121019
JP2014082942 A2	20140512	JP20120231636	20121019
JP2014082948 A2	20140512	JP20120231790	20121019
JP2014083251 A2	20140512	JP20120235092	20121024
JP2014083785 A2	20140512	JP20120235249	20121025
JP2014084150 A2	20140512	JP20120235248	20121025
JP2014084154 A2	20140512	JP20120235409	20121025
JP2014087263 A2	20140515	JP20120237569	20121029
JP2014087970 A2	20140515	JP20120238927	20121030
JP2014087971 A2	20140515	JP20120238928	20121030
JP2014088492 A2	20140515	JP20120238926	20121030
JP2014088493 A2	20140515	JP20120238929	20121030
JP5935648 B2	20160615	JP20120228313	20121015
JP5935650 B2	20160615	JP20120228749	20121016
JP5935656 B2	20160615	JP20120235249	20121025
JP5935659 B2	20160615	JP20120238927	20121030
JP5935660 B2	20160615	JP20120238928	20121030
JP5962425 B2	20160803	JP20120231635	20121019
JP5962426 B2	20160803	JP20120231636	20121019
JP5962427 B2	20160803	JP20120231790	20121019
JP5962436 B2	20160803	JP20120237569	20121029
JP5962438 B2	20160803	JP20120238926	20121030

JP5962439 B2	20160803	JP20120238929	20121030
JP5966852 B2	20160810	JP20120235092	20121024
JP6015322 B2	20161026	JP20120223276	20121005
JP6015328 B2	20161026	JP20120224914	20121010
JP6015334 B2	20161026	JP20120229009	20121016
JP6015343 B2	20161026	JP20120235248	20121025
JP6015344 B2	20161026	JP20120235409	20121025
JP6016098 B2	20161026	JP20120235091	20121024
KR20140103923 A	20140827	KR20147013872	20121122
PT2784120 T	20170814	PT20120852006T	20121122
TR201711547 T4	20170921	TR20170011547T	20121122
TW201336925 A	20130916	TW20120143982	20121123
TWI568789 B	20170201	TW20120143982	20121123
US2014308405 AA	20141016	US20120360078	20121122
WO13077436 A1	20130530	WO2012JP80395	20121122

Probable Assignee: MITSUBISHI GAS CHEMICAL CO INC

Assignee(s):^(std): MITSUBISHI GAS CHEMICAL CO ; MITSUBISHI GAS CHEMICAL CO INC

Assignee(s): MITSUBISHI GAS CHEMICAL COMPANY INC

Inventor(s):^(std): ARAKAWA SHOTA ; FUMIHIRO ITO ; IKEDA SHINICHI ; ITO FUMIHIRO ; IWAMOTO SHINPEI ; KASHIBA TAKASHI ; KENICHIRO USUDA ; OGAWA SHUN ; OGAWA TAKASHI ; OKADA SATOSHI ; SATOSHI OKADA ; SHINICHI IKEDA ; SHINPEI IWAMOTO ; SHOTA ARAKAWA ; SHUN OGAWA ; TAKAGI TOSHIYA ; TAKASHI KASHIBA ; TOSHIYA TAKAGI ; USUDA KENICHIRO

Agent(s): HOFFMANN EITLE; FUSTER GUSTAVO NICOLAS; INABA YOSHIYUKI; UGUR GUERSAD YALCINER; INABA YOSHIYUKI ET AL

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

International class
(IPC 8-9): [A23B7/00](#) [A23F3/16](#) [A23L1/22](#) [A23L27/00](#) [A23L3/00](#) [A23L3/3436](#) [A61J1/00](#) [A61J1/05](#) [A61J1/10](#) [A61M5/28](#) [B01J20/26](#) [B01J20/28](#) [B01J20/30](#) [B29C45/00](#) [B32B1/02](#) [B32B27/00](#) [B32B27/18](#) [B32B27/20](#) [B32B27/36](#) [B32B37/15](#) [B65D1/00](#) [B65D1/09](#) [B65D5/06](#) [B65D65/40](#) [B65D77/26](#) [B65D81/24](#) [B65D81/26](#) [B65D85/72](#) [C08G63/02](#) [C08G63/06](#) [C08G63/127](#) [C08G63/18](#) [C08G63/199](#) [C08J5/18](#) [C08K3/00](#) [C08K3/08](#) [C08K3/10](#) [C08K3/22](#) [C08K3/28](#) [C08K3/30](#) [C08K3/32](#) [C08K5/09](#) [C08K5/098](#) [C08L101/00](#) [C08L23/00](#) [C08L67/00](#) [C08L67/02](#) [C12G3/02](#) [C12H1/00](#) (Advanced/Invention); [A23L3/3436](#) (Advanced/Non-invention)

CPC: [C08G63/64](#) [B32B7/12](#) [B32B15/085](#) [B32B15/09](#) [B32B15/20](#) [B32B27/08](#) [B32B27/10](#) [B32B27/16](#) [B32B27/306](#) [B32B27/32](#) [B32B27/325](#) [B32B27/34](#) [B32B27/365](#) [B32B29/06](#) [B32B2250/02](#) [B32B2250/03](#) [B32B2250/04](#) [B32B2250/05](#) [B32B2250/24](#) [B32B2250/40](#) [B32B2255/10](#) [B32B2255/20](#) [B32B2270/00](#) [B32B2307/31](#) [B32B2307/518](#) [B32B2307/718](#) [B32B2307/7244](#) [B32B2307/738](#) [B32B2439/46](#) [B32B2439/60](#) [B32B2439/62](#) [B32B2439/70](#) [B32B2439/80](#) [C08J5/18](#) [C08J2323/08](#) [C08J2367/02](#) [C08J2423/08](#) [C08J2467/02](#) [A61M5/3129](#) [C08L67/00](#) [B01J20/264](#) [B01J20/3007](#) [B01J20/28042](#) [B65D85/72](#) [B32B2307/724](#) [A61J1/065](#) [A61J1/067](#) [A61J1/10](#) [Y10T428/1303](#) [Y10T428/1355](#) [Y10T428/1359](#) [Y10T428/31678](#) [C08K5/098](#) [C08G63/181](#) [C08G63/19](#) [B32B27/327](#) [B32B1/02](#) [A23L3/3436](#) [B32B27/18](#) [B32B27/36](#)

US class: [156/242](#) [206/524.6](#) [252/184](#) [264/532](#) [426/106](#) [428/34.2](#) [428/35.8](#) [428/35.9](#) [428/457](#)

[Classification Explorer](#)

Cited documents: WO200875639, WO08075639 A1, US6653440 BB, US6527976 BA, US3505282 A, US3505282, US2003068455 AA, US03505282, JP9234832 A2, JP8134194 A2, JP8134194, JP8127641 A2, JP7112949 A2, JP7112949, JP7079702 A2, JP61296028 A2, JP5317411 A2, JP5300939 A2, JP5115776 A2, JP51136845 A2, JP4063807 A2, JP3122137 A2, JP3014882 A2, JP2500846 T2, JP2009108153 A2, JP200837065, JP2008037065 A2, JP2006111718 A2, JP2006111718, JP2004323058 A2, JP2004229750 A2, JP2003521552 T2, JP2003291938, JP2003251775, JP2001252560

A2, JP2001105540 A2, JP2001105540, JP11255913 A2, JP11255913, JP10182804 A2, JP10182804, EP0850967 A2, CN1654536, CN1237936 A,

Forward Citations: WO15147031, WO14136844, WO14136812, WO14136811, WO14057991, US9776768, US9637604, US9518148, US2015232251, KR20160138462, KR20160118265, JP6160977, JP6115760, JP5557310, JP2014172945, JP2014167046, JP2011028477, EP3124232, EP3103829, EP2966126, EP2966125, EP2965808, EP2861503, EP2818540, CN106163799,

Abstract:

Source: US2014308405A A novel oxygen-absorbing resin composition is not responsive to a metal detector, produces no odor after absorption of oxygen and has excellent oxygen-absorbing performance, and an oxygen-absorbing molded article, and a multilayer body, container, injection-molded article and medical container. Further provided are an oxygen-absorbing resin composition etc. having excellent oxygen-absorbing performance in a wide range of humidity conditions from low to high humidity. The oxygen-absorbing resin composition is an oxygen-absorbing resin composition containing a polyester compound and a transition metal catalyst, in which the polyester compound has at least one constituent unit having a tetralin ring. Furthermore, the oxygen-absorbing molded article of the present invention is formed by molding the oxygen-absorbing resin composition into a film form or a sheet form. Moreover, the multilayer body, container, injection-molded article, medical container, etc. of the present invention are obtained by using the oxygen-absorbing resin composition of the present invention.

21) Family number: 23143240 (WO02090191A2)

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Title: BOTTLE AND CAN FOR LIQUIDS**Priority:** DE20012007738U 20010507 DE20012007739U 20010507

Family:	Publication number	Publication date	Application number	Application date
	<u>DE20107738 U1</u>	20020207	DE20012007738U	20010507
	<u>DE20107739 U1</u>	20011108	DE20012007739U	20010507
	<u>WO02090191 A2</u>	20021114	WO2002DE01622	20020504

Probable Assignee: MOERLEIN DIETER**Assignee(s):**^(std) MOERLEIN DIETER**Inventor(s):**^(std) MOERLEIN DIETER**Designated states:** AE AT AU BE CA CH CN CY CZ DE DK ES FI FR GB GR HU IE IL IN IT JP LU MC NL NO PL PT RO RU SE TR US

International class
 (IPC 8-9): [B65D25/08 B65D8/04 B65D81/32](#) (Advanced/Invention);
[B65D25/04 B65D8/04 B65D81/32](#) (Core/Invention)

International class
 (IPC 1-7): [B65D1/04 B65D23/00 B65D25/08 B65D8/00 B65D81/32](#)

CPC: [B65D17/165 B65D81/3216 B65D81/3222](#)**European class:** [B65D17/16B2 B65D81/32C B65D81/32C1](#)[Classification Explorer](#)**Forward Citations:** WO06099636, GB2405629, EP1440895, DE19857812, DE10303223, DE102011055955, DE102010000139, DE102010000139, DE102008051944,**Abstract:**

The invention relates to bottles and cans for liquids, offering a larger amount of storage space in addition to a main liquid chamber, said storage space being able to be opened up in the direction of the main liquid chamber by means of a device.

0) FR2910886A – BOTTLE FOR E.G. STORING BEER, HAS CROWN INCLUDI...

22) Family number: 41984500 (FR2910886A)

© PatBase

Title: BOTTLE FOR E.G. STORING BEER, HAS CROWN INCLUDING FREE EDGE TO COVER OUTER WALL OF UPPER EDGE OF CYLINDRICAL BODY SO AS TO COVER ENTIRETY OF UPPER SURFACE OF BOTTLE WHEN THREADED CYLINDRICAL STOPPER IS SCREWED ON MOUTH

Priority: FR20060011543 20061229 FR20070004178 20070612

Family:	Publication number	Publication date	Application number	Application date
	FR2910880 A1	20080704	FR20060011543	20061229
	FR2910886 A1	20080704	FR20070004178	20070612

Probable Assignee: BIOMIND CORP

Assignee(s):^(std): BIOMIND CORP

Inventor(s):^(std): OTMANY NEDDY ; PRIETO DANY

International class
^(IPC 8-9): [B65D1/02 B65D41/04 B65D41/28 B65D85/72](#) ^(Advanced/Invention);
[B65D1/02 B65D41/02 B65D41/04 B65D85/72](#) ^(Core/Invention)

CPC: [B65D21/022 B65D21/0231 B65D41/04](#)

European class: [B65D21/02E12B B65D21/02E7B B65D41/04](#)

[Classification Explorer](#)

Cited documents: WO06135490, US5238131, DE1814122,

Forward Citations: FR3002520,

Abstract:

The bottle (1) has a cylindrical body (3) closed in upper part by a plane surface (4), and a circular opening (6) formed at the center of the upper surface. A threaded mouth (7) is arranged above the opening, and a cover is formed of a crown (8) and a threaded cylindrical stopper (9), where the cover and the bottle are made of metal or plastic material. The crown has a free edge (10) to cover an outer wall of an upper edge of the body so as to cover entirety of the upper surface of the bottle when the stopper is screwed on the mouth.

23) Family number: 28878950 (US2003141269A)

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Title: LETTER AND NUMBER SHAPED BOTTLE**Priority:** US20020033605 20020102

Family:	Publication number	Publication date	Application number	Application date
	<u>US2003141269 AA</u>	20030731	US20020033605	20020102

Probable Assignee: RODERICK MIKELYN**Assignee(s):**^(std): RODERICK MIKELYN**Inventor(s):**^(std): RODERICK MIKELYN

International class
^{(IPC 8-9):} B65B7/28 (Advanced/Invention);
B65D81/36 (Advanced/Non-invention);
B65B7/28 (Core/Invention);
B65D81/00 (Core/Non-invention)

International class
^{(IPC 1-7):} B65B7/28 B65D39/00 B65D41/00 B67D3/00

CPC: B65D11/00 B65D81/365**European class:** B65D11/00 L65D81/36D**US class:** 215/229 215/329 215/388 215/44 222/52 222/520 222/525[Classification Explorer](#)**Cited documents:** USD439510 S1, USD404492 S1, USD380960 S1, USD339961 S1, USD319577 S1, USD268096 S1, USD117605 S1, US6142326 A, US5651471 A, US4143785 A,**Forward Citations:** WO16097668, USD790356, USD739258, USD739257, USD584963, US2008102174, US2008102173, US2008099506, US2008099352, US2008099351,**Abstract:**

Source: US2003141269A A letter or number shaped bottle (10) that is filled with a potable fluid (80) such as a natural-spring drinking water or a fruit juice. The letter bottles are constructed of hollow letter shaped structures (12) that range from A to Z, and the number bottles are constructed of hollow number shaped structures (14) that range from 1 to 0. The hollow structures (12, 14) each include an upper bottle opening (36) having integrally attached a tubular neck (38) to which is releasably attached a bottle cap (50) which when removed, the fluid (80) in the bottle can be consumed. Before or after the fluid is consumed the letter bottles can be used as a teaching aid to teach individuals, and particularly school-age children, the alphabet. Likewise, the number bottles can be used to teach correct number sequencing. The invention also includes a tray (70) that allows a set of letter (12), number (14), and/or punctuation mark (15) bottles to be stored or displayed in selected arrangements.

24) Family number: 11278171 (WO0029297A1)

© PatBase

Title: BREWING CARBONATED BEVERAGES

Priority: AU1998PP07112 19981116 AU1998PP07438 19981202 AU1998PP07675 19981210
WO1999AU01007 19991116 AU20000015352 19991116

Family:	Publication number	Publication date	Application number	Application date
	<u>AU200015352 A1</u>	20000605	AU20000015352	19991116
	<u>AU200015352 A5</u>	20000605	AU20000015352	19991116
	<u>AU711298 A0</u>	19981210	AU1998PP07112	19981116
	<u>AU743898 A0</u>	19981224	AU1998PP07438	19981202
	<u>AU767598 A0</u>	19990114	AU1998PP07675	19981210
	<u>CA2350575 AA</u>	20010510	CA19992350575	19991116
	<u>WO0029297 A1</u>	20000525	WO1999AU01007	19991116

Probable Assignee: HANNAN S A

Assignee(s):^(std) HANNAN S A ; HANNAN SIMON ; HANNON SIMON A ; SIMON HANNAN

Inventor(s):^(std) HANNAN SIMON ; HANNON SIMON A

Inventor(s): SIMON HANNAN

Agent(s): SIMON HANNAN

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class
(IPC 8-9): B65D41/50 B65D47/32 B65D47/38 B65D51/16 B65D51/28 B65D83/70 B65D85/72 F16K15/14 F16K24/04 (Advanced/Invention);
B65D41/32 B65D47/00 B65D47/04 B65D51/16 B65D51/24 B65D83/14 B65D85/72 F16K15/14 F16K24/00 (Core/Invention)

International class
(IPC 1-7): B65D41/50 B65D47/32 B65D47/38 B65D83/70 B65D85/72 F16K24/04

CPC: B65D51/165 F16K15/147

European class: B65D51/16D2A F16K15/14H3

[Classification Explorer](#)

Cited documents: WO9832673 A1, WO9620118 A1, US5390805 A, US5365830 A, NZ270559 A, CA1339855,

Forward Citations: US8739833, US7950388, GB2478633, GB2478633, GB2436502, EP1440895,

Abstract:

The invention relates to container closures that incorporate a pressure relief valve for use in the brewing of carbonated beverages. The pressure relief valve is in the form of a membrane (1) with a slit in it. A method of brewing using a container, any sealing and venting mechanism, a fermentable material, a means for reckoning alcohol content and a means for arresting fermentation is also claimed.

0) GB745275A – IMPROVEMENTS IN OR RELATING TO THE BOTTLING OF ...

25) Family number: 20179637 (GB745275A)

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Title: Improvements in or relating to the bottling of liquids

Priority: GB19530029015 19531021

Family:	Publication number	Publication date	Application number	Application date
	<u>GB745275 A</u>	19560222	GB19530029015	19531021

Probable Assignee: ERBEN LTD H

Assignee(s):^(std): ERBEN LTD H

Assignee(s): H ERBEN LIMITED

Inventor(s):^(std): GEISS ERICH

International class
(IPC 8-9): B65D39/00 (Advanced/Invention);
B65D39/00 (Core/Invention)

International class
(IPC 1-7): B65D53/04

CPC: B65D39/00 B65D39/0011

European class: B65D39/00 B65D39/00F1

[Classification Explorer](#)

26) Family number: 54554215 (US2014373485A)

© PatBase

Title: OXYGEN-ABSORBING RESIN COMPOSITION AND OXYGEN-ABSORBING
MULTILAYER BODY USING SAME, AND MOLDED ARTICLE AND MEDICAL
CONTAINER USING THESE

Priority: JP20120025177 20120208 JP20120168304 20120730 JP20130007769 20130118
JP20130009176 20130122 JP20130010498 20130123 JP20130012444 20130125
JP20130014493 20130129 JP20130014562 20130129 JP20130015002 20130130
JP20130016602 20130131 JP20130017248 20130131 JP20130017330 20130131
JP20130017424 20130131 JP20130018142 20130201 JP20130018203 20130201
JP20130018216 20130201 JP20130018243 20130201 JP20130018696 20130201
JP20130019543 20130204 JP20130020299 20130205 WO2013JP53121 20130208

Family:

Publication number	Publication date	Application number	Application date
CN104379662 A	20150225	CN201380018249	20130208
CN104379662 B	20160622	CN201380018249	20130208
EP2813544 A1	20141217	EP20130747239	20130208
EP2813544 A4	20151021	EP20130747239	20130208
EP2813544 B1	20170621	EP20130747239	20130208
IN07386DN2014 A	20160831	IN2014DN07386	20140903
JP2013177557 A2	20130909	JP20130007769	20130118
JP2014043091 A2	20140313	JP20130010498	20130123
JP2014140968 A2	20140807	JP20130009176	20130122
JP2014144534 A2	20140814	JP20130012444	20130125
JP2014144583 A2	20140814	JP20130014493	20130129
JP2014144584 A2	20140814	JP20130014562	20130129
JP2014144595 A2	20140814	JP20130015002	20130130
JP2014147322 A2	20140821	JP20130017424	20130131
JP2014147344 A2	20140821	JP20130018203	20130201
JP2014147346 A2	20140821	JP20130018216	20130201
JP2014147477 A2	20140821	JP20130017330	20130131
JP2014148076 A2	20140821	JP20130017248	20130131
JP2014148100 A2	20140821	JP20130018243	20130201
JP2014148341 A2	20140821	JP20130018142	20130201
JP2014148350 A2	20140821	JP20130019543	20130204
JP2014148484 A2	20140821	JP20130018696	20130201
JP2014148566 A2	20140821	JP20130016602	20130131
JP2014151920 A2	20140825	JP20130020299	20130205
JP5954194 B2	20160720	JP20130010498	20130123
JP5954197 B2	20160720	JP20130012444	20130125
JP5954201 B2	20160720	JP20130014493	20130129
JP5971137 B2	20160817	JP20130015002	20130130
JP5971139 B2	20160817	JP20130018243	20130201
JP5975348 B2	20160823	JP20130007769	20130118
JP6024495 B2	20161116	JP20130019543	20130204
JP6048175 B2	20161221	JP20130017248	20130131
JP6051896 B2	20161227	JP20130018142	20130201
JP6051900 B2	20161227	JP20130020299	20130205
JP6060711 B2	20170118	JP20130017330	20130131
JP6064616 B2	20170125	JP20130009176	20130122

<u>JP6089739 B2</u>	20170308	JP20130018696	20130201	
<u>KR20140132337 A</u>	20141117	KR20147022158	20130208	
<u>TW201410770 A</u>	20140316	TW20130105397	20130208	
<u>TW1586738 B</u>	20170611	TW20130105397	20130208	
<u>US2014373485 AA</u>	20141225	US20130376563	20130208	
<u>US9732167 BB</u>	20170815	US20130376563	20130208	
<u>WO13118882 A1</u>	20130815	WO2013JP53121	20130208	

Probable Assignee: MITSUBISHI GAS CHEMICAL CO

Assignee(s):^(std): MITSUBISHI GAS CHEMICAL CO ; MITSUBISHI GAS CHEMICAL CO INC

Inventor(s):^(std): ARAKAWA SHOTA ; IKEDA SHINICHI ; ITO FUMIHIRO ; IWAMOTO SHINPEI ; KASHIBA TAKASHI ; OGAWA SHUN ; OGAWA TAKASHI ; OKADA SATOSHI ; TAKAGI TOSHIYA ; USUDA KENICHIRO

Agent(s): HOFFMANN EITLE; INABA YOSHIYUKI; GREENBLUM AND BERNSTEIN PLC; INABA YOSHIYUKI ET AL

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

International class
(IPC 8-9): A23B7/00 A23B7/148 A23F3/16 A23L2/02 A23L2/44 A23L3/00 A23L3/3436 A61J1/00 A61J1/05 A61J1/14 A61J1/16 A61K9/70 A61M5/28 A61M5/31 B01J31/04 B32B1/02 B32B1/08 B32B27/00 B32B27/08 B32B27/10 B32B27/18 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B65B25/00 B65D1/00 B65D1/02 B65D1/40 B65D35/10 B65D5/42 B65D65/02 B65D65/40 B65D75/24 B65D81/24 B65D81/26 B67B7/92 C08F210/00 C08F210/02 C08F220/10 C08F220/16 C08F8/00 C08F8/06 C08F8/14 C08G63/183 C08K3/08 C08K3/10 C08K5/09 C08K5/098 C08L23/00 C08L23/02 C08L23/08 C08L23/26 C08L33/06 C08L33/08 C08L33/10 (Advanced/Invention);
A23L3/3436 (Advanced/Non-invention)

CPC: C08F8/06 B65B25/00 B65D81/267 A61M5/3129 A61J1/14 A61J1/16 A61M2005/3117 B32B27/06 C08L2201/14 C08L2203/10 B65D1/40 B65D5/42 A61J1/1468 B32B27/08 B32B27/10 B32B27/18 B32B27/325 B32B27/327 B32B27/34 B32B27/36 B32B2250/00 B32B2250/02 B32B2250/05 B32B2250/24 B32B2250/242 B32B2307/7242 B32B2307/7244 B32B2307/726 B32B2307/7265 B32B2307/74 B32B2439/70 B32B2439/80 B32B2553/00 B65D1/0215 B65D81/24 C08F2800/20 C08F2810/50 C08F210/02 C08F216/06 C08F220/14 C08F210/16 C08F210/06 Y10T428/31935 B32B27/32 B65D81/26 C08F8/14

US class: 215/12.2 220/62.22 229/5.84 428/522 525/330.3 53/428 604/199

[Classification Explorer](#)

Cited documents: WO9948963 A2, WO8702389 A2, US7097890 BA, US7056565 BA, US6254804 BA, US6254803 BA, US6063503 A, US5700554 A, US5529833 A, US5350622 A, US5346644 A, US5211875 A, US5021515 A, US4966699 A, US2009297979 AA, US2004267194 AA, US2003235708 AA, US2002102424 AA, US2002022144 AA, JPS51136845 A2, JP9234832 A2, JP9234832, JP9110790 A2, JP8127641 A2, JP5115776 A2, JP5115776, JP51136845 A2, JP51136845, JP2500846 T2, JP2013177557 A2, JP2013177557, JP2011236285 A2, JP2011236285, JP2011168764 A2, JP2011168764, JP2011168674 A2, JP2011168674, JP2011136761 A2, JP2011136761, JP2011132502 A2, JP2011132502, JP2011126270 A2, JP2011126270, JP2011123463 A2, JP201013627, JP2010013627 A2, JP2010013627, JP2009108153 A2, JP2007277440 A2, JP2007277440, JP2007164145 A2, JP2007164145, JP2007140289 A2, JP2007140289, JP2004323058 A2, JP2004229750 A2, JP2003534413 T2, JP2003534413, JP2003521552 T2, JP2003521552, JP2003335380 A2, JP2003335380, JP2001354817 A2, JP2001354817, JP2001252560 A2, JP2001252560, JP1997110790 A2, JP1259870 A2, EP0244458 A1, CN1430627 A, CN1301280 A, CN1266071 A, CN1266071, CN101252984 A,

Forward Citations: WO16090801, WO16080347, WO15119230, WO15115550, US9637604, US9428692, US2015232251, KR20160118265, KR200470335, JP6064616, JP6048175, JP2014148076, JP2014140968, JP2007132481, EP2891519,

Abstract:

Source: US2014373485A Provided is a novel oxygen-absorbing resin composition having excellent

oxygen-absorbing performance and suppressing odor generation after absorption of oxygen even if a material responsive to a metal detector is not used. Further provided is an oxygen-absorbing resin composition having excellent oxygen-absorbing performance in a wide range of humidity conditions from low humidity to high humidity. Such an oxygen-absorbing resin composition contains a copolymerized polyolefin compound and a transition metal catalyst, in which the copolymerized polyolefin compound contains at least one constituent unit having a tetralin ring.

0) FR2765555A – PLASTIC BOTTLE, ESPECIALLY FOR DRINK BOUTEILLE ...

27) Family number: 14305619 (FR2765555A)

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Title: Plastic bottle, especially for drink

Priority: FR19970008693 19970704

Family:	Publication number	Publication date	Application number	Application date
	FR2765555 A1	19990108	FR19970008693	19970704
	FR2765555 B1	19990903	FR19970008693	19970704

Probable Assignee: VERGERS D ALSACE

Assignee(s):^(std): VERGERS D ALSACE

Assignee(s): LES VERGERS D ALSACE

Inventor(s):^(std): GOERGLER LAURENT

International class
(IPC 8-9): [B65D1/02 B65D23/10](#) (Advanced/Invention);
[B65D1/02 B65D23/10](#) (Core/Invention)

International class
(IPC 1-7): [B65D1/02 B65D85/72](#)

CPC: [B65D1/0292 B65D23/102](#)

European class: [B65D1/02D3 B65D23/10B](#)

[Classification Explorer](#)

Cited documents: WO9714617 A1, US5407086 A, EP0528754 A1, EP0472504 A2, EP0439836 A1, EP0408929 A2, DE9104831 U,

Forward Citations: WO0189938, US2011049086, EP1121922,

Abstract:

Source: FR2765555A Bottle made from a synthetic material and designed to contain a drink such as fruit juice, is moulded with one or more asymmetrical surfaces (11) that provide a grip for the hands and also make it easier for the bottle to be crushed when empty by pressing on the moulded surfaces. Preferably the bottle is made from HDPE (high density polyethylene) and EVA (ethylene vinyl alcohol copolymer) barrier, PAN (polyacrylonitrile), or PET (polyethylene terephthalate). It can be translucent, transparent or opaque.

28) Family number: 17110195 (FR2158327A)

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Title: BOUTEILLE OU VERRE POUR DES JUS DE FRUITS OU ANALOGUES**Priority:** DE19710040619U 19711027 DE19710049423U 19711230

Family:	Publication number	Publication date	Application number	Application date
	BE790199 A	19730215		00000000
	BE790199 A2	19730215	BE19720123186	19721017
	DE7140619 U	19720113	DE19710040619U	19711027
	DE7149423 U	19720323	DE19710449423U	19711230
	FR2158327 A1	19730615	FR19720038287	19721027
	FR2158327 A3	19730615	FR19720038287	19721027
	FR2158327 B3	19790323	FR19720038287	19721027
	NL7213518 A	19730502	NL19720013518	19721005

Probable Assignee: DEUTSCHE GRANINI GMBH**Assignee(s):**^(std): DEUTSCHE GRANINI GMBH ; GRANINI G M B H GETRANKE IND and ; GRANINI GETRANKE IND AND GMBH ; GRANINI GMBH AND CO DEUTSCHE KG ; GRANINI GMBH DEUTSCHE ; GRANINI GMBH**Assignee(s):** DEUTSCHE GRANINI GMBH AND CO KG ; DEUTSCHE GRANINI GMBH GETRANKE INDUSTRIE AND CO KG ; DEUTSCHE GRANINI G M B H GETRANKE INDUSTRIE AND ; DEUTSCHE GRANINI G M B H GETRANKE INDUSTRIE AND CO K G KAMMERRATSHEIDE 31 BIELEFELD DUISLAND**International class**
(IPC 8-9): [A47G19/12 B65D47/06 B65D51/10](#) (Advanced/Invention);
[A47G19/00 B65D47/06 B65D51/00](#) (Core/Invention)**International class**
(IPC 1-7): [A47G19/00 A47G19/12 A47J B65D25/40 B65D47/00 B67D3/00](#)**CPC:** [B65D47/06 A47G19/12 B65D51/10 B65D23/106](#)**European class:** [A47G19/12 B65D47/06 B65D51/10](#)[Classification Explorer](#)**Forward Citations:** WO05085084, EP2860149, EP0487889, EP0023705,**Abstract:**

Source: FR2158327A [Source: Claim 1] REVENDICATIONS 10) Bouteille ou verre a orifice large et dont le bord de l'orifice comporte un filetage exterieur, bouteille notamment destinee a des boissons telles que des jus de fruit ou analogues, bouteille caracterisee en ce qu'elle comporte un verseur (4,14) visse sur ce filetage. 20) Bouteille ou verre selon la revendication 1, caracterise en ce que le verseur est muni d'une poignee (11, 13). 30) Bouteille ou verre selon l'une quelconque des revendications 1 et 2, caracterise en ce que l'orifice est recouvert dans une large mesure par le verseur visse sur la bouteille. 40) Bouteille ou verre selon la revendication 3, caracterise en ce que l'orifice de versement (9) du verseur comporte un tiroir susceptible de fermer cet orifice. 50) Bouteille ou verre selon l'une quelconque des revendications 1 et 2, caracterise en ce qu'au-dessus de l'orifice de versement (25) il est prevu un clapet (26) pivotant autour de son axe arriere. 60) Bouteille ou verre selon la revendication 5, caracterise en ce que le clapet (26) comporte sur sa face inferieure au niveau ou celle-ci deborde par dessus le bord de l'orifice de versement (25), au moins une saillie (30) evitant la fermeture complete du clapet. 70) Bouteille ou verre selon l'une quelconque des revendications 5 et 6, caracterise en ce que le clapet (26) est muni de pivots (28) a son extremite arriere, ces pivots etant loges elastiquement dans le bord superieur (29) du verseur. 80) Bouteille ou verre selon la revendication 7, caracterise en ce que les pivots (28) font corps avec le clapet (26) et comportent des bras arriere (27) a leur extremite libre. 90) Bouteille ou verre selon l'une quelconque des revendications 1 a 8, caracterise en ce que le verseur est en matiere synthetique. [Source: Claim 1] CLAIMS 10) bottle or glass large hole and whose edge of the orifice has an outer thread, destiny has particular bottle drinks such as juices of fruit or the like, bottle CHARACTERIZED in that it comprises a pouring spout (4,14) screwed onto this thread. 20) or glass bottle according to claim 1, characterized in that the pouring is provided with a handle (11, 13). 30) bottle or glass according to any one of claims 1 and 2, characterized in that the orifice is covered to a large extent by the pouring screwed onto the bottle. 40) or glass bottle according to claim 3, characterized in that the pouring orifice (9) of the pourer comprises a slide capable of closing said orifice. 50) bottle or glass according to any one of claims 1 and 2, characterized in that above of the pouring orifice (25) there is provided a valve (26) pivoting about its rear axis. 60) or glass bottle according to claim 5, characterized in that the valve (26) has on its underside at or it flows onto the top edge of the orifice of payment (25), at least one

projection (30) prevents the complete closure of the valve. 70) bottle or glass according to any one of claims 5 and 6, characterized in that the valve (26) is provided with pins (28) has its rear end, these pivots being elastically housed in the upper edge (29) of the pourer. 80) bottle or glass of claim 7, characterized in that the pivots (28) are integral with the valve (26) and have rear arm (27) at their free end. 90) bottle or glass according to any one of claims 1 to 8, characterized in that the pouring is plastic.

0) EP1702854A1 – STACKABLE BOTTLE MADE OF PLASTIC MATERIAL STAPE...

29) Family number: 33358573 (EP1702854A1)

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Title: Stackable bottle made of plastic material

Priority: IT2005BO00011U 20050315

Family:	Publication number	Publication date	Application number	Application date
	EP1702854 A1	20060920	EP20060110385	20060224
	ITBO20050011 U1	20060916	IT2005BO00011U	20050315

Probable Assignee: TECHNE TECHNIPACK ENGINEERING

Assignee(s):^(std): TECHNE TECHNIPACK ENGINEERING

Assignee(s): TECHNE TECHNIPACK ENGINEERING ITALIA S P A ; TECHNE TECHNIPACK ENGINEERING ITALIA SPA

Inventor(s):^(std): CASTELLARI FABRIZIO

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

International class
(IPC 8-9): [B65D21/032](#) (Advanced/Invention);
[B65D21/032](#) (Core/Invention)

CPC: [B65D21/0231](#)

European class: [B65D21/02E12B](#)

[Classification Explorer](#)

Cited documents: WO02072434 A1, FR2134729 A5, DE1917707 U, DE1788374 U,

Forward Citations: WO16178635, WO15163655, WO12145993, ITMI20101422,

Abstract:

Source: EP1702854A1 Bottle (F) of plastic material made by means of blowing, with a neck (101) and mouth axially aligned with the body of the said bottle and closed by a cap (2) characterized in that, on the bottom of the bottle a coaxial frustum conical seat (3) is formed having a taper ratio and dimensions which are complementary to that of the cap (2) and with a depth comprised between 1/6 and 1/2 of the height (C) which is the sum of the height of the neck (101) and the cap (2), all of which so that it is possible to stack several bottles on top of one another in a stable and safe manner, with the cap (2) of one bottle (F) which is inserted with slight interference inside the bottom seat (3) of the bottle (F') situated above making close contact with the latter both on the side surface and on the bottom surface.

Title:	Multifunctional bottle			
Priority:	CN20042000936U 20040108		CN200420000936U 20040108	
Family:	Publication number	Publication date	Application number	Application date
	<u>CN2714451 Y</u>	20050803	CN200420000936U	20040108
Probable Assignee:	LIU QING			
Assignee(s):^(std):	LIU QING			
Inventor(s):^(std):	LIU QING			
Inventor(s):	QING LIU			
International class (IPC 8-9):	<u>B65D81/36</u> (Advanced/Invention); <u>B65D81/00</u> (Core/Invention)			
International class (IPC 1-7):	<u>B65D81/36</u>			

[Classification Explorer](#)

Abstract:

Source: CN2714451Y The utility model discloses a multifunctional bottle which comprises a bottle and a bottle cap. The contour shape of an assembly of the bottle (40) and the bottle cap is in bowling bowl rod shape. The multifunctional bottle also comprises a matched toy bowling bowl (50). The bottle cap comprises a roof board (10) and a cover (20). An inner cup (23) which is protruded downwards is connected on the ectotheca (21) of the cover (20). The checking agent is filled in the inner cup (23). The roof board (10) is arranged on the top of the ectotheca (21). An inner screw (22) is arranged on the inner surface of the outer wall (21). An outer screw which is matched with the inner screw (22) is arranged on the bottle neck (41) of the bottle (40). A block edge (42) which is matched with the block edge (26) of the base ring (25) is also arranged on the bottle neck (41) of the bottle (40). The multifunctional bottle is not only provided with sanitation and seal function, but also is provided with body-building, game, checking and anti-forging function. The multifunctional bottle is favor of environmental protection. The multifunctional bottle is suitable to be used for the drinking bottle and the solid filled bottle to fill the drinking water, the fruit juice, the vegetable juice and the alcohol.

31) Family number: 48725346 (CN201784949U)

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Title: Beverage bottle with hand strap**Priority:** CN201020283605U 20100730

Family:	Publication number	Publication date	Application number	Application date
	<u>CN201784949 U</u>	20110406	CN201020283605U	20100730

Probable Assignee: LEI ZHANG**Assignee(s):^(std):** LEI ZHANG**Assignee(s):** ZHANG LEI**Inventor(s):^(std):** LEI ZHANG**Inventor(s):** ZHANG LEI**International class** B65D23/00 B65D85/72 (Advanced/Invention)
(IPC 8-9).[Classification Explorer](#)**Abstract:**

Source: CN201784949U The utility model discloses a beverage bottle provided with a hand strap and used for packaging drinking water, fruit juice and the like. The beverage bottle comprises a bottle body; a bottle mouth is formed at the upper end of the bottle body; a bottle cover is connected with the bottle mouth; one end of the hand strap movably connected with the top surface of the bottle cover through a connecting buckle; a circular ring is arranged at the other end of the hand strap and is sleeved on a bottle neck below the bottle mouth; both ends of the hand strap can be rotated around the center of the bottle body; and the hand strap can be made of flexible plastic and can be used for carrying and hanging the beverage bottle. A user can hold the beverage bottle by one hand for drinking without holding the bottle cover by the other hand; the bottle cover is prevented from being in contact with other articles and is clean and sanitary; with the hand strap, the beverage bottle is used and carried conveniently and sanitarily; and the bottle cover can not be lost, so as to avoid the environmental contamination caused by lost bottle covers.

32) Family number: 16786147 (CN2355999Y)

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Title: Plastic packaging bottle with easy pull handle**Priority:** CN19982041847U 19981027

Family:	Publication number	Publication date	Application number	Application date
	<u>CN2355999 Y</u>	19991229	CN19982041847U	19981027

Probable Assignee: CAI YANMING**Assignee(s):^(std):** CAI YANMING**Inventor(s):^(std):** CAI YANMING ; YANMING CAI

International class B65D17/00 B65D49/12 (Advanced/Invention);
 (IPC 8-9): B65D17/00 B65D49/00 (Core/Invention)

International class B65D17/00 B65D49/12
 (IPC 1-7):

[Classification Explorer](#)**Abstract:**

Source: CN2355999Y The utility model relates to a plastic packaging bottle, particularly a plastic packaging bottle with an easy pull handle. The utility model is provided with an easy pull handle at a bottle opening. The easy pull handle is poked and a little force is used, and a bottle body can be easily opened. So people can drink liquid in the bottle body, and the liquid is soda water, fruit juice, etc. The utility model is composed of the bottle body, a bottle neck and the bottle opening. The utility model is characterized in that the bottle opening is provided with a convex ring, and the ring is connected with the easy pull handle which is a hollow sealed body. A V-shaped chamfer is arranged on the connection point of the ring and the bottle neck, and the bottle body, the bottle neck, the bottle opening, the ring, the V-shaped chamfer and the easy pull handle are integrally formed in a blow moulding mode. The utility model is sanitary and convenient in drinking.

33) Family number: 20224384 (GB797812A)

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Title: IMPROVED CLOSURE MEANS FOR PARENTERAL INJECTION BOTTLES, AND OTHER BOTTLES OR VESSELS**Priority:** GB19560029938 19561002

Family:	Publication number	Publication date	Application number	Application date
	<u>BE560517 A</u>	19570930		00000000
	<u>CH339701 A</u>	19590715		19570902
	<u>DE1813238 U</u>	19600615	DE1957C004991U	19570810
	<u>ES237379 A1</u>	19580216	ES19570237379	19570831
	<u>FR1187815 A</u>	19590916		19570826
	<u>GB797812 A</u>	19580709	GB19560029938	19561002

Probable Assignee: JAMES BENNETT MORTIMORE**Assignee(s):^(std):** BENNETT MORTIMORE JAMES ; CHAPMAN HAROLD ERIC ; HAROLD ERIC CHAPMAN ; JAMES BENNETT MORTIMORE ; MORTIMORE JAMES BENNET ; MORTIMORE JAMES BENNETT**Assignee(s):** JAMES BENNET MORTIMORE**Inventor(s):^(std):** HAROLD ERIC CHAPMAN ; CHAPMAN HAROLD ERIC ; MORTIMORE JAMES BENNETT ; MORTIMORE JAMES BENNET**Inventor(s):** JAMES BENNET MORTIMORE ; ERIC CHAPMAN HAROLD**International class**
(IPC 8-9): A61J1/00 A61J1/14 B65D47/32 B65D51/16 (Advanced/Invention);
A61J1/14 (Core/Invention)**International class**
(IPC 1-7): A61J1/06**CPC:** A61J1/1406 A61J1/1475 B65D47/32 B65D51/1616 A61J1/145 A61J1/1418**European class:** A61J1/00C A61J1/14B A61J1/14C A61J1/14P B65D47/32 B65D51/16C2 K61J1/14C2 K61J1/14F2[Classification Explorer](#)**Forward Citations:** WO8808501, WO14095351, US4878594, US4259184, FR2614607, EP2934421, EP2934421, EP1990287, EP0027283, DE1260082,**Abstract:**

Source: GB797812A 797,812. Container closures. CHAPMAN, H. E., and MORTIMORE, J. B. Oct. 2, 1956, No. 29938/56. Class 125(3). A closure for a parenteral injection bottle or other vessel 1 has a central plug 2 with germicidal and fungicidal properties and an annular compartment 3 partly filled with air filtering and sterilizing material 4 and formed by a container 5 closed by a cover 6 having an aperture 8 through which outside air can enter. The part 5 has an aperture through which depends a tubular extension 9 of a rotary valve 10 having an axial passage 11 opening into branch passages 12 and into the inside of bottle 1. Compartment 3 is divided into two halves by vertical divisions 14, one half containing the filter material 4 so that air entering aperture 8 can, when valve 10 is turned to the appropriate position, pass through material 4, through gaps 15 in divisions 14 into spaces 16 and through passages 17, 12 into the bottle. Valve 10 has a square shape trunnion 18 engaging a square hole in an operating plate 19 having an integral stud 20 engaging a slot 23 in a cap 21 freely rotatable about the bottle neck but secured thereon by a flange 22 engaging a groove 7 in the bottle neck. The bottle is filled or emptied by means of a hollow needle introduced through plug 2 via aperture 24 in the cap. In a modification, Fig. 10, suitable for storing milk or fruit juices and c., the plug 2 is replaced by a hollow rotatable plug 44 having a one-way rubber valve 47 for discharging the contents. Specification 797,811 is referred to.

34) Family number: 25350776 (CH194165A)

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Title: FLASCHENVERSCHLUSS. BOTTLE STOPPER. (Machine translation)**Priority:** 19370702

Family:	Publication number	Publication date	Application number	Application date
	<u>CH194165 A</u>	19371130		19370702

Probable Assignee: BACCHINI JOH ANDREA**Assignee(s):^(std):** BACCHINI JOH ANDREA**Inventor(s):^(std):** JOH ANDREA BACCHINI**Inventor(s):** ANDREA BACCHINI JOH

International class B65D41/22 (Advanced/Invention);
 (IPC 8-9): B65D41/02 (Core/Invention)

International class B65D41/02 B65D41/18
 (IPC 1-7):

CPC: B65D41/22**European class:** B65D41/22[Classification Explorer](#)**Forward Citations:** US4674644, US2461247, EP0139877, DE948218,**Abstract:**

Source: CH194165A PATENTANSPRUCH: Flaschenverschluss, insbesondere zum luft dichten Abschliessen von fuer die Konservierung von Fruchtsaefen und dergl. bestimmten Flaschen, gekennzeichnet durch eine zum Aufstuelpen auf den Flaschenhals bestimmte Haube aus einem dehnbaren und luft undurchlaessigen Stoff, deren Bodenteil in der Mitte eine nach aussen vorstehende Verdickung aufweist. and It; B and gt; UNTERANSPRUECHE: and It; B and gt; 1. Flaschenverschluss nach Patentanspruch. dadurch gekennzeichnet, dass der Innen durchmesser der nicht aufgesteckten Haube etwas kleiner ist als der Aussen durchmesser des mit der Haube zu verschliessenden Flaschenhalsendes. 2. Flaschenverschluss nach Patentanspruch und Unteranspruch 1, dadurch gekennzeichnet, dass der Bodenteil der Haube auch ausserhalb der nach aussen vorstehenden Verdickung in der Mitte eine groessere Dicke aufweist als der Haubenmantel. 3. Flaschenverschluss nach Patentanspruch und Unteranspruechen 1 und 2, dadurch gekennzeichnet, dass die am Haubenboden befindliche Verdickung zylindrisch gestaltet ist und einen gegenueber dem Mue- dungs durchmesser des Flaschenhalses nur wenig kleineren Durchmesser aufweist. 4. Flaschenverschluss nach Patentanspruch und Unteranspruechen 1 bis 3, dadurch gekennzeichnet, dass die Verschlusshaube aus Gummi besteht. CLAIM: Bottle Stopper, especially for airtight Completing of for the preservation of fruit juices and the like bestimm ten bottles, characterized by the slap them specific to the bottle neck cover made of a stretchable and air impenetrable substance outside the bottom part in the middle one after. Ver above has thickened. and It; B and gt; UNTERANSPRUECHE: and It; / B and gt; 1. A bottle closure according to patent claim. characterized in that the inner diameter of not plugged hood is slightly smaller than the outside diameter of the hood closing to ver bottleneck end. 2. The bottle cap according to claim 1 and dependent claim, characterized in that the bottom part of the hood outside the outward vorstehen- the thickening in the middle of a bigger thickness than the hood coat. 3. The bottle cap according to claim and Unteranspruechen 1 and 2, characterized in that the thickening located at the bottom of the hood is cylindrical gestaltet and having opposite the mouth of the bottle neck diameter only slightly smaller diameter. 4. A bottle closure according to patent claim and Unteranspruechen 1 to 3, characterized in, that the closure cap is made of rubber.

35) Family number: 43616622 (US2009203606A)

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Title: SYSTEMS FOR AND METHODS OF USE OF THERAPEUTIC NUTRITION FOR THE MANAGEMENT OF AGE-ASSOCIATED AND AGE-SPECIFIC HEALTH CONDITIONS OF THE ELDERLY

Priority: US20080026302P 20080205 US20090366520 20090205 WO2009US33251 20090205

Family:

Publication number	Publication date	Application number	Application date
<u>CA2713759 AA</u>	20090813	CA20092713759	20090205
<u>JP2011514323 T2</u>	20110506	JP20100546001T	20090205
<u>US2009203606 AA</u>	20090813	US20090366520	20090205
<u>WO09100241 A2</u>	20090813	WO2009US33251	20090205
<u>WO09100241 A3</u>	20091112	WO2009US33251	20090205

Probable Assignee: HEALTHSPAN SOLUTIONS LLC

Assignee(s):^(std): HEALTHSPAN SOLUTIONS LLC ; TROUP JOHN P ; WOLFE ROBERT R ; DEUTZ NICOLAAS E P

Assignee(s): DEUTZ NICOLAAS EP ; ENERGY LIGHT LLC

Inventor(s):^(std): DEUTZ NICOLAAS E P ; TROUP JOHN P ; WOLFE ROBERT R

Inventor(s): DEUTZ NICOLAAS EP

Agent(s): LEWIS RICE AND FINGERSH LC ATTN BOX IP DEPT; DAMMAN KIRK 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class
(IPC 8-9): A23L1/30 A23L1/305 A23L2/02 A23L2/38 A23L2/52 A23L2/66 A61K31/198 A61K31/202 A61K31/401 A61K31/4172 A61K38/00 A61K47/46 A61P3/02 B65D85/72 (Advanced/Invention); A23L1/305 A23L2/38 A23L2/52 A61K38/00 B65D85/72 (Core/Invention)

CPC: A23L29/30 A23L33/12 A23L33/17 A23L33/175 A23L33/40 A23L2/02 A23L2/52

European class: A23L1/09 A23L1/29F A23L1/305 A23L1/305A A23L1/30C2 A23L2/02 A23L2/52

US class: 514/1.1 514/12 514/3.8 514/3.800S 514/5.5 514/5.500P

[Classification Explorer](#)

Cited documents: WO05122796 A1, US6051236 A, US5641531 A, US2010286023 AA, US2007116819 AA, US2006280840 AA, US2004253227 AA, US2003134007 AA, US2003064135 AA, JP7087891 A2,

Forward Citations: US9700071, US9611298, US9605040, US9598474, US8822412, US8809259, US2014044828, US2010179089, JP5983601, JP2012141316, JP2011120479, EP2705844, EP2705844, CN103458891,

Abstract:

Source: US2009203606A Nutritional compositions which provide for improved taste profiles for the elderly while simultaneously providing nutrition specific to assist in the management of nutritional deficiencies that lead to age specific and age associated health conditions in the elderly. There are also provided products using these compositions and incorporating packaging design, volume delivery, and sensory attributes to improve nutritional regimen compliance in the elderly.

0) DE202006016173U1 – DRINKING STRAW, INTEGRATED INTO THE BOTTLE SCRE...

36) Family number: 34254814 (DE202006016173U1)

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Title: DRINKING STRAW, INTEGRATED INTO THE BOTTLE SCREW CLOSURE, HAS TWO NOMINAL BENDING POINTS TO OPEN OUT INTO A STRAIGHT STRAW WHEN THE BOTTLE IS OPENED

Priority: DE200620016173U 20061018 DE200710050000 20071016

Family:	Publication number	Publication date	Application number	Application date	
	<u>DE102007050000 A1</u>	20080626	DE200710050000	20071016	
	<u>DE102007050000 B4</u>	20090226	DE200710050000	20071016	
	<u>DE202006016173 U1</u>	20070201	DE200620016173U	20061018	

Probable Assignee: LE THANH SON

Assignee(s):^(std): LE THANH SON

Inventor(s):^(std): LE THANH SON

International class A47G21/18 B65D17/00 B65D23/00 B65D47/06 (Advanced/Invention);
(IPC 8-9): A47G21/00 B65D17/00 B65D23/00 B65D47/06 (Core/Invention)

CPC: B65D77/283

European class: B65D77/28C

[Classification Explorer](#)

Cited documents: WO0107348 A1, US3746197 A, US2844267 A, GB858401 A, DE9212587 U,
DE202006000080 U1

DE19614145 A1, DE1946941 A1, DE1750712 U,

Forward Citations: WO12064291, WO11049534, WO11023586, EP2457842, EP2452889, DE202010015802,
DE202010015464, DE102012005393, DE102010053518, DE102010049727,
DE102010023861,

Abstract:

The drinking straw (7), integrated into the screw closure (3) of a bottle (2) filled with a beverage (1), springs out when the cap is removed. The straight straw has two nominal bending points (5,6) to divide the straw into a mouthpiece (8), a center section (10) and a bottom piece (13). With a closed bottle, the mouthpiece lies against the flat base (9) of the cap (4). The center section lies at a diagonal from the right side of the bottle opening to the left corner (12) of the bottle base, with the straw end section flat on the bottle base (14).

37) Family number: 29781316 (US2002102424A)

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Title: OXYGEN SCAVENGING POLYMERS AS ACTIVE BARRIER TIE LAYERS IN MULTILAYERED STRUCTURES

Priority: JP20000537934 19990324 NZ19980330077 19980325 NZ19990506972 19990324
 US19990275329 19990324 US19980127316 19980731 US19980172316 19980731
 US20000664993 20000918 WO2001US47263 20011105 US20000745150 20001220
 WO1999US06379 19990324 US20030609050 20030627 US20000727110 20001130

Family:

Publication number	Publication date	Application number	Application date
AR031449 AA	20030924	AR2001P105593	20011130
AT281492 E	20041115	AT19990912859T	19990324
AU199931130 A1	19991018	AU19990031130	19990324
AU2002226027 AA	20020611	AU20020226027	20011105
AU200226027 A1	20020611	AU20020026027	20011105
AU200226027 A5	20020611	AU20020026027	20011105
AU757403 B2	20030220	AU19990031130	19990324
BRPI9909074 A	20001205	BR1999PI09074	19990324
CA2325404 AA	20000921	CA19992325404	19990324
CA2325404 C	20070710	CA19992325404	19990324
CN100535040 C	20090902	CN20031030617	19990324
CN1129633 C	20031203	CN19998006233	19990324
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DE69921631 D1	20041209	DE19996021631	19990324
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NO20004746 A	20001114	NO20000004746	20000922
NO20004746 A0	20000922	NO20000004746	20000922
NZ506972 A	20030926	NZ19990506972	19990324
RU2000126752 A	20021210	RU20000126752	19990324
US2002102424 AA	20020801	US20000727110	20001130
US2003235708 AA	20031225	US20030609050	20030627
US6254803 BA	20010703	US19990275329	19990324
US6254804 BA	20010703	US20000745150	20001220
US6946175 BB	20050920	US20030609050	20030627
US7056565 BA	20060606	US20000664993	20000918
US7097890 BA	20060829	US19980127316	19980731
WO0244034 A2	20020606	WO2001US47263	20011105
WO0244034 A3	20021121	WO2001US47263	20011105
WO9948963 A2	19990930	WO1999US06379	19990324
WO9948963 A3	19991111	WO1999US06379	19990324

Probable Assignee: CRYOVAC INC**Assignee(s):**^(std):

CHEVRON CHEM CO ; CHEVRON PHILIP CHEMICAL CO LLC ; CHEVRON PHILIPS CHEMICAL CO ; CHEVRON PHILIPS CHEMICAL CO SE ; CRYOVAC INC ; CHEVRON PHILLIPS CHEMICAL COMP ; CHEVRON PHILLIPS CHEMICAL CO ; SEALED AIR ; MITED ; SEALED AIR NZ LTD ; SEALED AIR NEW ZEALAND ; YANG HU

Assignee(s): SEALED AIR NZ LTD HAMILTON ; CAI GANGFENG ; SEALED AIR NEW ZEALAND LTD ; SEALED AIR LTD ; SEALED AIR NZ LIMITED ; GOODRICH JOSEPH L ; RUSSELL KENNETH W ; LEONARD JAMES P ; MATTHEWS ANDREW ; GALLAND MARK STEPHEN ; DEPREE CRAIG ; CHEVRON PHILIPS CHEMICAL CO SEALED AIR NZ LTD ; CHEVRON PHILLIPS CHEMICAL CO LP ; CHEVRON PHILLIPS CHEMICAL COMPANY L P ; CHEVRON PHILLIPS CHEMICAL COMPANY LP ; CHEVRON PHILLIPS CHEMICAL CO LP HOUSTON ; CHING TA YEN ; SEALED AIR (NZ) LTD ; CHEVRON PHILIPS CHEMICAL CO SEALED AIR NZ LIMITED ; CHEVRON CHEMICAL CO ; CHEVRON CHEMICAL CO LLC ; CHEVRON CHEMICAL COMPANY LLC ; CHEVRON PHILIP CHEMICAL CO

Inventor(s):^(std): CHING YEN ; DAYAN JIN ; DEAPURI C ; DEPREE C ; DIPRY C ; GALLAND MARK STEPHEN ; GALLAND STEVEN ; GANGFENG C ; GANGFENG CAI ; GOODRICH L ; HU YANG ; JAMES P LEONARD ; JIN DAYAN ; JOSEPH L GOODRICH ; KENNETH W RUSSELL ; LEONARD P ; MARK STEVEN GALLAND ; RUSSELL W ; TA YEN CHING ; TAYEN CHING ; CRAIG DEPREE ; C DEAPURI ; ANDREW MATTHEWS ; YANG HU ; STEVEN GALLAND MARK ; RUSSELL KENNETH W ; MATTHEWS ANDREW E ; MATTHEWS ANDREW ; LEONARD JAMES P ; GOODRICH JOSEPH L ; GALLAND MARK STEVEN ; DEPREE CRAIG ; DAYAN JING ; CHING TA YEN ; CHIN JENNIFER ; CAI GANGFENG

Inventor(s): C DEPREE ; C DIPRY ; C GANGFENG ; CHING TAYEN ; JING DAYAN ; MARK STEPHEN GALLAND

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SIM AND MCBURNEY; K KA RAN

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

International class
(IPC 8-9): A23L3/3436 B29D22/00 B29D23/00 B32B1/08 B32B27/08 B32B27/18 B32B27/36 B32B3/10 B65D1/00 B65D81/26 B65D85/50 C08F22/04 C08F8/00 C08K5/00 C08K5/09 C08L101/02 C08L67/00 (Advanced/Invention);
B32B27/18 B65D1/00 B65D85/50 (Advanced/Non-invention);
A23L3/34 B29D22/00 B29D23/00 B32B1/00 B32B27/08 B32B27/18 B32B27/36 B32B3/10 B65D1/00 B65D81/26 B65D85/50 C08F22/00 C08F8/00 C08K5/00 C08L101/00 (Core/Invention)

International class
(IPC 1-7): A23L3/3436 B01J20/26 B01J23/00 B05D1/36 B29O22/00 B32B27/00 B32B27/08 B32B27/18 B32B27/30 B65D1/09 B65D85/50 C08F22/04 C08F255/02 C08F8/00 C08F8/14 C08K5/00 C08K5/09 C08L101/02 C08L51/06 C08L67/00 C09K15/00 C09K15/04 C09K15/06

CPC: C08F2800/20 C08F2810/30 C08F2810/50 C08K5/0008 Y10T428/1348 Y10T428/1352 Y10T428/1355 Y10T428/1359 Y10T428/1379 Y10T428/1383 B32B27/18 Y10T428/1341 Y10T428/2813 Y10T428/31746 Y10T428/3175 Y10T428/31757 Y10T428/31797 Y10T428/31917 Y10T428/3192 Y10T428/31928 A23L3/3436 Y10T428/31855 C08F8/00 C08F8/14 C08F8/28 B32B7/12 B32B27/10 B32B27/302 B32B27/304 B32B27/306 B32B27/308 B32B27/32 B32B2250/24 B32B2307/7244 B32B2317/12 B32B2323/043 B32B2323/046 B32B2323/10 B32B2325/00 B32B2327/06 B32B2329/04 B32B2333/08 B32B2333/12 B32B2367/00 B32B2439/70 B32B27/08 B32B27/36

European class: A23L3/3436 B32B27/08 B32B27/18 B32B27/36 C08F8/00 C08K5/00P

US class: 229/100 252/188.1 252/188.25 252/188.28 427/402 427/402S 428/346 428/35.4 428/35.6 428/35.7 428/35.8 428/35.9 428/36.6 428/36.7 428/476.1 428/476.3 428/476.9 428/483 428/500 428/500P 428/517 428/518 428/520 482/346 482/35.4 482/36.7 482/518 524/5 524/6 525/11 525/32 525/322 525/330.6 525/372 525/374 525/383 525/384 525/386 526/317.1 526/318 526/318.4 526/318.42

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A, US5425896 A, US5399289 A, US5346644 A, US5294689 A, US5286407 A, US5211875 A, US5116916 A, US5049624 A, US4983651 A, US4908151 A, US4524201 A, US4415710 A, US3935141 A, US3873644 A, US3632684 A, US3536687 A, US3497571 A, US2002102424 AA, JP9011416 A2, JP5295171 A2, JP5295171, JP5194949 A2, JP5194949, EP0477983 A2, EP0418011 A2, EP0040983 A1, DE1900181 A1, DE1900181,

Forward Citations:

WO16196121, WO15108781, WO14136918, WO14136917, WO14136914, WO14136844, WO14136812, WO14134503, WO14057991, WO14034800, WO13177266, WO13172943, WO13118882, WO13099921, WO13089268, WO13077436, WO13061333, WO13061333, WO13043652, WO13043635, WO13031877, WO13028289, WO13023156, WO12170300, WO12170297, WO12154379, WO12102086, WO12022543, WO11067197, WO11067196, WO11045464, WO10039725, WO09029615, WO09016083, WO08146803, WO08124682, WO08124682, WO07075473, WO07051860, WO06086521, WO06086521, WO06012483, WO05108063, WO05107502, WO05077767, WO05066042, WO05066042, WO05030854, WO05023911, WO05023911, WO04103701, WO04062896, WO04055131, WO04035417, WO03048219, WO0246245, WO0246245, WO0244034, WO0244034, WO0236670, WO0228918, WO0228918, WO02051914, WO02051914, WO0190238, WO0190238, WO0190202, WO0190202, WO0164780, US9764308, US9732167, US9670408, US9630764, US9617375, US9539375, US9518148, US9505541, US9487337, US9452592, US9447321, US9441066, US9428692, US9371346, US9371343, US9339025, US9333288, US9296990, US9199421, US9199016, US9156940, US9095662, US9068113, US9067004, US9050591, US9024049, US9018284, US9005343, US8969606, US8962740, US8921487, US8875919, US8871352, US8828226, US8815360, US8758644, US8569052, US8562861, US8535421, US8518318, US8308976, US8262952, US8226850, US8182888, US8110261, US8097229, US8080212, US8075966, US8026493, US8003751, US7910185, US7879930, US7842361, US7810673, US7807111, US7794804, US7780008, US7754798, US7717057, US7713464, US7696300, US7641950, US7628292, US7521523, US7514152, US7504045, US7494605, US7491359, US7468144, US7452601, US7375154, US7288593, US7288586, US7265176, US7258930, US7247390, US7238300, US7186464, US7153891, US7097890, US7087277, US7078100, US7056565, US7052628, US7052628, US7026417, US7022258, US6946175, US6942821, US6906146, US6875400, US6872451, US6863988, US6852894, US6828370, US6818151, US6818150, US6777479, US6746622, US6737464, US6713547, US6664320, US6610772, US6610215, US6607795, US6596803, US6586500, US6572783, US6569506, US6559205, US6552114, US6552113, US6548587, US6544611, US6527976, US6525123, US6517776, US6515067, US6486254, US6486253, US6454965, US6437086, US6410807, US6406644, US6323288, US2015361249, US2015144838, US2014373485, US2013168270, US2010300905, US2010255231, US2010247821, US2010237283, US2010078465, US2010051862, US2009311457, US2009136760, US2009121370, US2009117389, US2009108478, US2009061061, US2009061057, US2008241521, US2008161529, US2008161472, US2008161465, US2008118690, US2008045637, US2008021142, US2007167562, US2007141366, US2007088133, US2007031546, US2006258875, US2006216445, US2006214331, US2006173112, US2006148957, US2006128861, US2006122306, US2006099436, US2006099362, US2006024440, US2005279967, US2005244665, US2005159526, US2005148680, US2005139806, US2005084635, US2005048287, US2005048286, US2005048285, US2005011892, US2004234797, US2004129554, US2004127627, US2004082698, US2004081584, US2004063841, US2004058178, US2003235669, US2003218152, US2002002238, TWI586738, RU2516268, KR20140098219, KR20130115334, JP4074622, JP2015212382, JP2014148350, JP2014147477, JP2013531120, JP2008536705, JP2008146803, JP2008081529, JP2008081525, JP2006502926, JP2006168003, JP2006168002, JP2005105887, JP2003534427, JP2003534413, GB2466720, EP3064541, EP2891519, EP2873698, EP2813544, EP2752233, EP2420530, EP2363276, EP2358844, EP2336239, EP2295476, EP2188349, EP2036936, EP2036936, EP1892262, EP1871836, EP1779737, EP1778791, EP1749847, EP1749847, EP1731446, EP1664164, EP1640408, EP1627011, EP1283234, DE102005052891, DE102004062204, CN105440398, CN105219000, CN105219000, CN104379662, CN104334605, CN104334605, CN103635536, CN103635536, CN102639631, AU2005239990, AU2004276227, AU2004270651, AU2003279976, AU2002219864, AU2002219864, AU2001263279, AU2001261742,

Abstract:

Source: US2002102424A Herein is disclosed multilayer packaging articles comprising an oxygen barrier layer comprising ethylene/vinyl alcohol copolymer (EVOH) (an "EVOH oxygen barrier layer"); an oxygen scavenging layer adjacent thereto, wherein the oxygen scavenging layer comprises a polymer comprising an ethylenic backbone and a cycloalkenyl group having structure I: wherein q1, q2, q3, q4, and r are independently selected from hydrogen, methyl, or ethyl; m is $-(CH_2)_n-$, wherein n is an integer from 0 to 4, inclusive, and, when r is hydrogen, at least one of q1, q2, q3, and q4 is also hydrogen; and a third layer adjacent to the oxygen scavenging layer. In addition to the oxygen scavenging function, the oxygen scavenging layer functions as a tie layer to substantially inhibit delamination of the EVOH oxygen barrier layer from the third layer of the packaging article.

38) Family number: 42145960 (NL2000414C)

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Title: VERPAKKING VOOR LEVENSMIDDELEN, IN HET BIJZONDER DRANKEN.
PACKAGING FOR FOOD I.E. BEVERAGE SUCH AS FRUIT JUICE, HAS BOX-SHAPED
CONTAINER COMPRISING FLEXIBLE BAG FOR CONTAINING FOOD, WHERE
FLEXIBLE BAG COMPRISES RIGID CLOSURE FOR CLOSING BOX-SHAPED
CONTAINER

Priority: NL20072000414 20070103

Family:	Publication number	Publication date	Application number	Application date
	<u>NL2000414 C2</u>	20080704	NL20072000414	20070103

Probable Assignee: 4SIGHT INNOVATION BV

Assignee(s):^(std): 4SIGHT INNOVATION B V ; 4SIGHT INNOVATION BV

Inventor(s):^(std): PERRA ANTONIO GIUSEPPE

Inventor(s): ANTONIO GIUSEPPE PERRA

International class
^(IPC 8-9): B65D77/06 (Advanced/Invention);
B65D77/06 (Core/Invention)

CPC: B65D77/065

European class: B65D77/06B2

[Classification Explorer](#)

Cited documents: WO03086881 A1, WO03078258 A1, US5203470 A, US5156295 A, US4635814 A,
US3484011 A, US3119543 A, US2004089672 AA, EP0513495 A2, EP0453775 A2,
EP0398225 A1, DE10214712 A1,

Forward Citations: WO15150414, EP2544960, EP2544960,

Abstract:

The packaging (1) has a box-shaped container (2) comprising a flexible bag (3) for containing food such as beverage, where the flexible bag comprises a rigid closure for closing the box-shaped container. The rigid closure is attached to the box-shaped container. The bag is connected to a pouring spout (4) that is provided with an external thread (6) which engages a threaded cap. The pouring spout has an overhang flange (7) through which the pouring spout is attached to the box-shaped container.

39) Family number: 17741653 (DE29617509U1)

© PatBase

Title: Container, in particular bottle from flexible material**Priority:** DE19962017509U 19961009

Family:	Publication number	Publication date	Application number	Application date
	<u>DE29617509 U1</u>	19961128	DE19962017509U	19961009

Probable Assignee: BRAMLAGE GMBH**Assignee(s):^(std):** BRAMLAGE GMBH**Assignee(s):** BRAMLAGE GMBH 49393 LOHNE DE

International class B65D1/02 B65D25/44 B65D47/12 (Advanced/Invention);
 (IPC 8-9): B65D1/02 B65D25/38 B65D47/12 (Core/Invention)

International class B65D1/02 B65D21/02 B65D41/04 B65D51/24 B65D85/80
 (IPC 1-7):

CPC: B65D1/0292 B65D25/44 B65D47/123 B65D2501/0027**European class:** B65D1/02D3 B65D25/44 B65D47/12B1 L65D501/02Y1A[Classification Explorer](#)

Cited documents: US5348173 A, GB2099800 A1, FR4366 A, FR2627155 A1, FR2470059 A1, EP0628482 A1, DE9316296 U, DE9111483 U, DE8525933 U, DE4030851 C2, DE3130522 A1, DE29504853 U1,

Abstract:

Source: DE29617509U1 (Claim 1) 1. Behaelter, insbesondere Flasche (1) aus flexiblem Material, vorzugsweise Kunststoff, zu r Aufnahme und Abgabevon be is p i e l swe i s e Fruchtsaft, Milch ode r dergleichen, mitKoerperbereich (2), Bodenbereich (3), Kopfbereich (4) und Versc h l usskappe (5), dadurch gekennzeichnet , dass de r Kopfbereich (4) de r Flasche (1) so geformt ist, dass ein Eindruecken de r Verschlusskappe (5) in die Flasche (1)moeglich ist und unter Hoehenreduzierung de r Flasche (1) eineplane, stapelfaehige Flaech e entsteht.

Machine translation: (Claim 1) 1 Capacities, in particular bottle (1) made of flexible material, preferably plastic, to r recording and Abgabevon be is piel swe ise fruit juice, milk ode r like mitKoerperbereich (2), floor area (3), head (4) and weigh hl usskappe (5), thus marked containers td t, that is de r head region (4) th e bottle (1) shaped so that pressing in th e cap (5) into the bottle (1) is possible and Height reduction in th e bottle (1) a flat, stapelfaehige surface is formed.

40) Family number: 14936812 (US6165523A)

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Title: Injector bottle cap assembly**Priority:** US19990299283 19990426

Family:	Publication number	Publication date	Application number	Application date
	<u>US6165523 A</u>	20001226	US19990299283	19990426

Probable Assignee: STORY DOUGLAS**Assignee(s):^(std):** STORY DOUGLAS**Inventor(s):^(std):** STORY DOUGLAS

International class
(IPC 8-9): B65D51/28 (Advanced/Invention);
B65D51/24 (Core/Invention)

International class
(IPC 1-7): B65D25/08 B65D41/00 B65D51/28

CPC: B65D51/2828**European class:** B65D51/28B1B**US class:** 206/222 215/228 215/250 426/111 426/112 426/115 426/120[Classification Explorer](#)

Cited documents: US5772017 A, US5542528 A, US5114033 A, US5071034 A, US4706827 A, US4412623 A, US4279351 A, US4247001 A, US4221291 A, US3968872 A, US3743520 A, US3603469 A, US3537605 A, US3521745 A, US3443726 A, US3349966 A, US3347410 A, US3305368 A, US3220588 A, US3156369 A, US3098575 A, US2824010 A, US2807384 A, US2793776 A, US2766755 A, US2721552 A, US2653609 A, US2631521 A, US2073273 A, GB1180059 A, FR2453793 A1, DE2729390 A1,

Forward Citations: WO12137091, WO11002758, WO09073998, WO07006414, WO06079708, WO04031048, WO03093128, WO02074106, USD584963, USD498021, US9795242, US9764342, US9708109, US9604765, US9498086, US9321570, US9272827, US9260284, US9108208, US8541037, US8499971, US8408389, US8142827, US8011534, US7909210, US7686188, US7607549, US7506782, US7306117, US7303328, US7252091, US7249690, US7005152, US6959839, US6705491, US6705490, US6672817, US6517878, US6372270, US2013233444, US2011166910, US2011032788, US2010327009, US2010236952, US2010187257, US2009260690, US2009173616, US2009053365, US2008290059, US2008190958, US2008169217, US2008168745, US2008149585, US2008142465, US2008135424, US2008102174, US2008102173, US2008099506, US2008099352, US2008099351, US2008054001, US2008014326, US2007251910, US2006131330, US2006006192, US2005236424, US2005226964, US2005167297, US2005167296, US2005167295, US2005161348, US2005127101, US2005007870, US2005003058, US2004166208, US2004155061, US2004115317, US2002190023, RU2563781, JP2014513015, GB2386358, ES2221517, EP2269944, CN105836279, AU2006208823, AT14679,

Abstract:

Source: US6165523A A flavor enhancing mechanism for bottled water, club soda, and bland liquid comestibles, is described. The flavor enhancing mechanism includes a bottle cap containing a flexible bellows. The bellows is generally transparently clear, flexible plastic. The bottle cap and bellows are mounted upon a bottle containing a liquid comestible, whose flavor is to be enhanced. The bellows contains concentrates of fruit juices and/or other natural flavors. The bottle cap is designed to be screw threaded or snap fitted onto the standard lip portion of glass or plastic drinking containers. Upon application of a downward force, the flavor enhancers are squeezed from the flexible bellows, and injected downwardly into the bland liquid substances held in the bottle.

0) GB2426507A – CLOSURE FOR BOTTLES CONTAINING EFFERVESCENT LIQ...

41) Family number: 32200048 (GB2426507A)

© PatBase

Title: CLOSURE FOR BOTTLES CONTAINING EFFERVESCENT LIQUIDS

Priority: GB20050010655 20050525

Family:	Publication number	Publication date	Application number	Application date
	GB200510655 A0	20050629	GB20050010655	20050525
	<u>GB2426507 A1</u>	20061129	GB20050010655	20050525
	<u>GB2426507 B2</u>	20090128	GB20050010655	20050525

Probable Assignee: LEE MARK

Assignee(s):^(std): LEE MARK

Assignee(s): MARK LEE

Inventor(s):^(std): LEE MARK

Inventor(s): MARK LEE

International class B65D23/12 B65D41/16 B65D41/22 B65D45/18 B65D51/14 (Advanced/Invention);
(IPC 8-9): B65D23/00 B65D41/02 B65D45/00 B65D51/00 (Core/Invention)

CPC: B65D41/16 B65D23/12 B65D41/22 B65D45/18 B65D2251/0028

European class: B65D23/12 B65D41/16 B65D41/22 B65D45/18 L65D251/00Y2K

[Classification Explorer](#)

Cited documents: US3930589 A, EP0152171 A2, DE2726428 A1,

Forward Citations: ITPS20110009, ITPN20090006,

Abstract:

Source: GB2426507A The present invention relates to bottle closures. In particular, but not exclusively, the present invention relates to the provision of temporary and/or disposable bottle closures for effervescent liquids such as sparkling mineral waters, sparkling fruit juices, sparkling wines and champagnes when contained in traditional champagne-style bottles. Since bottles of effervescent drinks are often packaged in bottles having a capacity of seventy centilitres or of one litre, it is frequently the case that a bottle of such effervescent drink is not consumed by one or two persons within a single period of time. A closure 20a comprises a disc member 33 made from rubber-like thermoplastic plastics material, a first ring member 32 connected to a second ring member 36 by legs 34 to form a cage-like member 30a. The first ring member 32 is attached to the disc member 33 and the second ring member has an elliptical shape. In use the disc member 33 abuts against and sealingly engages with an aperture of a bottle, whilst an edge of the elliptical ring 36 is resiliently engaged with a lower edge of a ring 50 of the bottle, the length of the legs 34 and the resilience of the disc member 33 being sufficient to retain an effervescent liquid therein.

42) Family number: 19314555 (DE462078A)

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Title: FLASCHE ZUR GETRENNTEN AUFNAHME VON KOHLENSAEUREHALTIGER FLUESSIGKEIT UND FRUCHTSAFT O. DGL. BOTTLE FOR SEPARATE SHOOTING carbonated LIQUID AND FRUIT OR THE LIKE. (Machine translation)

Priority: DE1926K100363 19260819

Family:	Publication number	Publication date	Application number	Application date
	<u>DE462078 A</u>	19280704	DE1926K100363D	19260819

Probable Assignee: JOHANN KLOSTERMEIER

Assignee(s):^(std): JOHANN KLOSTERMEIER

International class B65D25/08 (Advanced/Invention);
(IPC 8-9): B65D25/04 (Core/Invention)

International class B65D1/04
(IPC 1-7):

CPC: B65D25/08

European class: B65D25/08

[Classification Explorer](#)

Forward Citations: EP0536841,

Abstract:

Source: DE462078A (Claim 1) 1. PATENTANSPRUECHE: i. Flasche zur getrennten Aufnahme von kohlen-saeurehaltiger Fluessigkeit und Fruchtsaft o. dgl., wobei der Innenraum der Flasche durch eine halsfoermige Ver engung in zwei untereinanderliegende Raeume unterteilt ist, deren unterer, groesse rer die kohlen-saeurehaltige Fluessigkeit auf nimmt und wobei die beiden Raeurne durch ein Kugelventil voneinander abgeschlossen sind, dadurch gekennzeichnet, dass unter oder neben dem von unten gegen die in bekannter Weise den Ventilsitz bildende halsfoermige Verengung (h) der Flasche gepressten Ventil in der Wand der unteren Abteilung (ci) der Flasche ein federbeein- flusstes Druckventil (i) angeordnet ist, bei dessen oeffnen Kohlen-saeure entweicht, so dass das Kugelventil (c) nach unten faellt.

Machine translation: (claim 1) 1 Claims: i bottle for the separate intake of carbonated liquid and fruit juice or the like, wherein the interior of the bottle by a narrowing halsfoermige Ver divided into two spaces is below each other, the lower, the size rer kohlen-saeurehaltige fluid absorbs and wherein the two Raeurne by a ball valve of one another are completed, characterized in that under or next to the from below against the in known manner the valve seat forming halsfoermige constriction (h) of the bottle pressed valve in the wall of the lower compartment (ci) of the bottle a spring influenced flusstes pressure valve (i) is arranged at the opening of which carbonic acid escapes, so that the ball valve (c) falls downward.

0) US2006249472A – VARIETY BOTTLE

43) Family number: 33603535 (US2006249472A)

© PatBase

Title: VARIETY BOTTLE

Priority: US20050120260 20050503

Family:	Publication number	Publication date	Application number	Application date
	<u>US2006249472 AA</u>	20061109	US20050120260	20050503

Probable Assignee: KULLSON RICHARD

Assignee(s):^(std): KULLSON HEATHER L ; KULLSON RICHARD L

Assignee(s): KULLSON RICHARD LEO ; KULLSON RICHARD

Inventor(s):^(std): KULLSON HEATHER L ; KULLSON RICHARD L

Inventor(s): KULLSON RICHARD LEO ; KULLSON HEATHER LEANNE ; KULLSON RICHARD ; KULLSON HEATHER

Agent(s): RICHARD LEO KULLSON

International class B65D1/04 (Advanced/Invention);
(IPC 8-9): B65D1/04 (Core/Invention)

CPC: B65D1/04 B65D47/265

European class: B65D1/04 B65D47/26D4

US class: 215/6

[Classification Explorer](#)

Cited documents: US6577638 BA, US5921440 A, US5588550 A, US43154 A,

Abstract:

Source: US2006249472A My "Variety Bottle" takes a regular plastic bottle used for soft drinks, fruit juices, shampoo's, alcoholic beverages etc. and offers two different varieties within one bottle. The dispensing "Mix Dial" offers the user to select one of each or a combination of the two contents within the bottle to offer a variety of choices and options.

44) Family number: 23040580 (FR1315968A)

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Title:	PERFECTIONNEMENTS AUX OBTURATEURS IMPROVEMENTS TO SHUTTER (Machine translation)			
Priority:	FR19610882221 19611216			
Family:	Publication number	Publication date	Application number	Application date
	FR1315968 A	19630125	FR19610882221	19611216
Inventor(s):^(std):	GIANNONI JEAN			
International class (IPC 8-9):	B65D41/02 (Advanced/Invention); B65D41/02 (Core/Invention)			
International class (IPC 1-7):	B65D53/04			
CPC:	B65D41/023			
European class:	B65D41/02B			

[Classification Explorer](#)**Abstract:**

Source: FR1315968A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. Lors du bouchage, l'obturateur en matiere plastique s'enfonce a l'interieur du goulot de la bouteille assurant une premiere etancheite, et la compression de la couronne de liege sur la partie superieure du goulot assure une deuxieme etancheite. Le reeeep- tacle 4 de l'obturateur permet de recevoir le depot pendant la periode de traitement ou les bouteilles sont disposees avec le goulot en bas. L'invention presente ainsi, dans le cas des liquides envisages, l'avantage non seulement d'une double etancheite aux liquides par obturateur enfonce dans le goulot et par la compression d'un joint en liege, dont on sait l'efficacite, sur la bague en verre de la bouteille, mais surtout d'une parfaite etancheite aux alcools, ethers et gaz se produisant lors de la fermentation, par une isolation complete entre le liquide et l'air ambiant, la couronne de liege formant tampon entre l'interieur de la bouteille et l'air exterieur, annihilant tous effets d'osmose dus a la diffusion de la matiere plastique employee. Il est evident que invention ne se limite pas au mode d'execution donne a titre d'exemple, mais qu'elle en embrasse au contraire toutes les variantes, notamment en ce qui concerne la forme et les.

Machine translation: (Claim 1) CAUTION ** ** start of CLMS field may contain end of DESC **. During the closure, the closure of plastic sinks to the interior of the bottle neck providing a first tightness and compression of the crown cork on the upper part of the neck ensures a second etancheite, REEEP- tacle of the shutter 4 can receive the deposit during the period of treatment or the bottles are arranged with the neck down. The present invention thus, in the case of liquids envisaged, the advantage not only of dual liquid- tightness with valve in the neck and pushed by the compression of a gasket cork, known efficacy, on the ring glass of the bottle, but also a perfect sealing to alcohols, ethers and gas occurring during fermentation, a complete isolation between the liquid and ambient air, crown cork cushioning between the inside and the outside air bouteille, negating all effects of osmosis due to the diffusion of plastic used. It is obvious that invention is not limited to the embodiment given as an example, but on the contrary covers all variants, particularly as regards the form and.

45) Family number: 33174733 (US2008169217A)

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Title: BIOACTIVE PACKAGES AND PACKAGE CLOSURES
Priority: FR20050000803 20050126 WO2006FR00146 20060123
Family:

Publication number	Publication date	Application number	Application date
AU2006208823 AA	20060803	AU20060208823	20060123
AU2006208823 BB	20120119	AU20060208823	20060123
CA2595963 AA	20070726	CA20062595963	20060123
EP1841663 A1	20071010	EP20060709148	20060123
FR2881115 A1	20060728	FR20050000803	20050126
FR2881115 B1	20081031	FR20050000803	20050126
US2008169217 AA	20080717	US20060883047	20060123
WO06079708 A1	20060803	WO2006FR00146	20060123

Probable Assignee: CALONE BONNEAU MARGUERITE GABR

Assignee(s):^(std): BONNEAU CALONE MARGARET ; BONNEAU MARC ; BONNEAU MARGARET CALONE ; CALONE BONNEAU MARGARET ; CALONE BONNEAU MARGUERITE GABR ; CALONE BONNEAU MARGUERITE GABRIELLE

Assignee(s): MARC BONNEAU ; MARGARET CALONE BONNEAU

Inventor(s):^(std): BONNEAU MARGARET CALONE ; CALONE BONNEAU MARGARET ; CALONE BONNEAU MARGUERITE GABRIELLE ; CALONE BONNEAU MARGUERITE GABR ; BONNEAU MARC ; BONNEAU CALONE MARGARET

Inventor(s): MARC BONNEAU ; MARGARET CALONE BONNEAU

Agent(s): AHEARN FOX; GOUDREAU GAGE DUBUC; YOUNG AND THOMPSON

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

International class [B65D39/00](#) [B65D51/24](#) [B65D51/28](#) [B65D51/30](#) [B65D81/28](#) [B65D85/00](#) (Advanced/Invention);
 (IPC 8-9): [B65D39/00](#) [B65D51/24](#) [B65D81/28](#) [B65D85/00](#) (Core/Invention)

CPC: [B65D51/24](#) [B65D51/28](#)

European class: [B65D51/24](#) [B65D51/28](#)

US class: [206/524.6](#) [206/524.600P](#) [215/364](#) [215/364S](#)

[Classification Explorer](#)

Cited documents: WO0168470 A1, WO0053508 A1, US6511726 BA, US6170654 BA, US6165523 A, US5256405 A, US5004118 A, US4350508 A, US2362796 A, US2003123919 AA, FR2812620 A1, EP1384682 A2, EP1136015 A1, EP0763477 A1,

Forward Citations: WO13092022, WO13092021, US2012207876, US2010264142, CN106219049, CN104859939, CN104859939,

Abstract:

Source: US2008169217A The invention relates to an active package and/or an active package closure having different formats, made of metal and/or synthetic and/or natural associated or not materials. According to said invention, at least one element and/or component of said packages contains and distributes one or several dietary additives and complements and/or ingredients and technological auxiliaries used for producing foods and cosmetics. The inventive bioactive packages and closures are provided with novel specific functions such as additive and/or technical and/or antimicrobial functions with respect to a packed product. Said bioactive packages and closures confer to packed products sanitary, organoleptic and nutritional characteristics and are used for controllingly preserving the products during packaging, storage, transportation and distribution thereof.

46) Family number: 44662258 (IN02758MU2009A)

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Title: NON REFILLING PLASTIC BALL CLOSURE FOR ALL LIQUID BOTTLES**Family:**

Publication number	Publication date	Application number	Application date
<u>IN02758MU2009 A</u>	20100319	IN2009MU02758	20091130

Probable Assignee: MOHAMMED M LOKHANDWALA ; HAMID HUSAIN S UDALPURWALA ; TABASSUM M LOKHANDWALA ; NADEEM H UDAIPURWALA**Assignee(s):** MOHAMMED M LOKHANDWALA ; HAMID HUSAIN S UDALPURWALA ; TABASSUM M LOKHANDWALA ; NADEEM H UDAIPURWALA**Inventor(s):** HAMID HUSAIN S UDALPURWALA ; MOHAMMED M LOKHANDWALA ; NADEEM H UDAIPURWALA ; TABASSUM M LOKHANDWALA**International class** B65D49/00

(IPC 1-7):

Abstract:

Source: IN02758MU2009A This invention is based upon non refillable ball closure. It is useful for preventing wastage of liquid like fruit juice, hard drink, soft drink, mineral water thereof. This invention prevents deliberate adulteration and contamination of bottled products by the application of non-refillable ball closure. Non refillable ball closure prevents refilling thereof with counterfeit products and also prevents adulteration of original contents of an opened bottle having genuine content. Also this specially designed ball closure provides a good control over the liquid being poured out of the bottle and thus preventing excess flow and wastage. It's very safe, cheap to produce, easy to use and substantially temper proof against illicit refilling or adulterating operation comparative to another. We can easily change the colour and design as per client requirement including golden Ambridge thereof. The ball closure is being simple to construct to apply, easy to use for dispensing purpose and cheap in cost. The standard arrangement of non refillable ball closure is as follows– It's made up one part of LD, one part of polystyrene, three part of HDPE (High density polyethylene) and one inner part of PP (Polypropylene). The outer part of the ball closure attached with thread. This is helpful for opening. It can be easily change to colour and design as per client requirement especially golden Ambridge thereof. The outer part of the ball closure has plane surface which is essential for controlling pressure.

0) FR2792616A – COMPRESSING PLUG FOR USED PLASTIC BOTTLES HAS C...

47) Family number: 13435164 (FR2792616A)

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Title: COMPRESSING PLUG FOR USED PLASTIC BOTTLES HAS CAP ON PLUG FITTED INTO BOTTLE NECK TO ALLOW CRUSHING

Priority: FR19990005158 19990423

Family:	Publication number	Publication date	Application number	Application date
	<u>FR2792616 A1</u>	20001027	FR19990005158	19990423

Probable Assignee: HILY JEAN ALAIN

Assignee(s):^(std): HILY JEAN ALAIN

Inventor(s):^(std): HILY JEAN ALAIN

International class B29B17/00 B30B9/32 B65D39/00 B65D51/16 (Advanced/Invention);
(IPC 8-9): B29B17/00 B30B9/32 B65D39/00 B65D51/16 (Core/Invention)

International class B65D1/02 B65D21/08 B65D39/04
(IPC 1-7):

CPC: Y02W30/62 B65D51/1611 B29B17/0052 B29B2017/0063 B30B9/321 B65D39/00 B65D39/0023

European class: B29B17/00D6B B30B9/32B B65D39/00 B65D39/00F3 B65D51/16C1 L29B17/00D6B2

[Classification Explorer](#)

Forward Citations: FR2912342,

Abstract:

The compressing plug (1) for used plastic bottles has a cap (5) of large rounded shape (5). The plug is made of wood, metal or moulded plastics. There are four ribs (4) on the underside of the cap to space it from the bottle neck and allow the escape of air. The claims include a method of crushing a bottle

0) NZ248752A – TAMPER EVIDENT CLOSURE: CAP CONNECTED TO COLLAR...

48) Family number: 8506002 (NZ248752A)

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Title: TAMPER EVIDENT CLOSURE: CAP CONNECTED TO COLLAR BY FRANGIBLE BRIDGING SUCH THAT COLLAR IS RETAINED ON CONTAINER NECK WHEN CLOSURE REMOVED

Priority: NZ19930248752 19930923

Family:	Publication number	Publication date	Application number	Application date
	<u>AU199454772 A1</u>	19950406	AU19940054772	19940131
	<u>NZ248752 A</u>	19960326	NZ19930248752	19930923

Probable Assignee: SPOTLESS PLASTICS NZ LTD

Assignee(s):^(std): SPOTLESS PLASTICS NZ LIMITED ; SPOTLESS PLASTICS NZ LTD

Inventor(s):^(std): GIESE KENNETH JAMES

Inventor(s): KENNETH JAMES GIESE

Agent(s): PHILLIPS ORMONDE FITZPATRICK

International class
^(IPC 8-9): B65D41/32 B65D41/34 B65D55/02 B65D55/08 ^(Advanced/Invention);
B65D41/32 B65D41/34 B65D55/02 ^(Core/Invention)

International class
^(IPC 1-7): B65D41/32 B65D41/34 B65D55/02 B65D55/08

[Classification Explorer](#)

Abstract:

Source: AU199454772A (Claim 1) 1. A tamper evident closure moulded as an unitary member in a plastics material to have a closure defining region in the form of a cap with an internally threaded skirt capable of being screw fitted to close the mouth of an appropriate container, a collar defining region which is substantially annular in form and is positioned beneath skirt of the closure region, and frangible bridging regions between said substantially annular collar and the lower periphery of skirt of said closure region, wherein said frangible bridging regions splay outwardly from the lower regions of said closure member and the frangibility of said bridging regions is such as to leave said collar with upwardly and inwardly directed projections in use upon the unscrewing of the closure region which projections will assist in retaining the collar region about the neck of an appropriate container.

49) Family number: 32809663 (EP1645518A3)

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Title: Bottle for mix drinks**Priority:** DE200420015492U 20041006

Family:	Publication number	Publication date	Application number	Application date
	<u>DE202004015492 U1</u>	20050105	DE200420015492U	20041006
	<u>EP1645518 A2</u>	20060412	EP20050400032	20050929
	<u>EP1645518 A3</u>	20060419	EP20050400032	20050929

Probable Assignee: AZANI ADAM**Assignee(s):**^(std): AZANI ADAM**Inventor(s):**^(std): AZANI ADAM**Designated states:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

International class
(IPC 8-9): B65D1/04 B65D25/08 B65D81/32 (Advanced/Invention);
B65D1/04 B65D25/04 B65D81/32 (Core/Invention)

International class
(IPC 1-7): B65D1/04

CPC: B65D1/04 B65D25/08 B65D81/32**European class:** B65D1/04 B65D25/08 B65D81/32 B65D81/32B1[Classification Explorer](#)**Cited documents:** US6237649 BA, US6112537 A, US5071034 A, US4116354 A, US3521745 A, GB2309681 A1, GB2285791 A1, EP0770561 A1, DE2518428 A1,**Forward Citations:** WO15188207, WO12064296, US9604747, US9004301, US8292099, US8141732, GB2515049, GB2515049,**Abstract:**

A drink container has two chambers (4, 5) separated by a membrane (6) and holding different liquids, e.g. alcohol and drink preparation, drink preparation and drink concentrate etc.. The chambers are set one above the other. A release element (7) is attached to the membrane and leads to the closure (2). When the container is opened the release element breaks the membrane and the two drink components can be mixed prior to serving.

Title: BOTTLE WITH SAFETY THREADED CLOSURE CAP – PREVENTS UNAUTHORISED DISCHARGE OF CONTENTS AND SUBSEQUENT REFILLING

Priority: CH19710014127 19730306

Family:	Publication number	Publication date	Application number	Application date
	<u>CH562754 A</u>	19750613	CH19710014127	19730306

Probable Assignee: HELMETA AG

Assignee(s):^(std): HELMETA AG

International class B65D41/34 B67B5/00 (Advanced/Invention);
(IPC 8-9): B65D41/34 B67B5/00 (Core/Invention)

International class B65D49/12 B67B3/20
(IPC 1-7):

CPC: B65D41/3476 B67B5/00

European class: B65D41/34E3 B67B5/00

[Classification Explorer](#)

Abstract:

Source: CH562754A (Claim 1) 1. Verfahren nach Patentanspruch I, dadurch gekennzeichnet, dass der Werkstoff des Sicherungsringes waehrend des Aufschrumpfens versproedet wird. PATENTANSPRUCH II Sicherungsring zur Durchfuehrung des Verfahrens nach Patentanspruch I, dadurch gekennzeichnet, dass die den inneren Ansatz begrenzende aeussere Stirnflaeche des Sicherungsringes abgeschraegt ist. UNTERANSPRUECHE Bottles filled with drinks, e.g. carbonated mineral waters or fruit juices, are sealed and protected against unauthorised withdrawl of their contents by using an injection moulded polystyrene security ring that is thermally shrunk onto a closure cap and under the bottle neck rim, after the bottle has passed through the filling of closing appts., and the closure cap of thin tin-plate or aluminium has been fixed on the screw threaded bottle neck. The security ring is easily applied at low cost by thermal shrink age. The thermal treatment causes embrittlement of the ring so that the latter breaks readily when the cap is unscrewed.

51) Family number: 41459152 (FR2904610B)

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Title: BOUCHON AVEC SYSTEME DE VALVE AUTOMATIQUE A SENS UNIQUE**Priority:** FR20060007037 20060801

Family:	Publication number	Publication date	Application number	Application date
	FR2904610 A1	20080208	FR20060007037	20060801
	FR2904610 B1	20091127	FR20060007037	20060801

Probable Assignee: MARIE NICOLAS**Assignee(s):^(std):** MARIE NICOLAS**Assignee(s):** NICOLAS MARIE**Inventor(s):^(std):** MARIE NICOLAS**Inventor(s):** NICOLAS MARIE**Agent(s):** NICOLAS MARIE

International class [B65D47/06 B65D47/32](#) (Advanced/Invention);
^{(IPC 8-9):} [B65D47/04 B65D47/06](#) (Core/Invention)

CPC: [A61J11/008 A61J11/02 B65D47/06 B65D47/08 B65D51/165](#)**European class:** [A61J11/00Z2 B65D47/06 B65D47/08 B65D51/16D2A K61J11/02](#)[Classification Explorer](#)**Cited documents:** US6230923 BA, US5890619, US5462185, US2005184075 AA, US2003209555 AA, US2003098312 AA, EP1627586 A1,**Forward Citations:** WO13024192, WO12095491, WO12095191, US8727187, US2013037510, RU2631647, EP2743201, EP2743201, CN103826982, CN103402883, CN103402883, AU2012296826,**Abstract:**

The cap (9) has a round shaped joint (2) placed on an internal base (4) of the cap, and including a small orifice (3) traversing on an upper part of the base. A V-shaped one-way valve (1) is opened in an interior direction and passes the air (15) in a bottle (10), during the absorption of drinkable liquid (14) e.g. fruit juice, by the mouth of a user (16), when the user exerts a depression, opposite to that of the valve, in the bottle. The valve and the joint are made of a plastic material. The valve is controlled by memory, plastic or elastic effects of valve due to the bottle's depression.

52) Family number: 22963295 (FR1354686A)

© PatBase

Title:

Bouchon expansible pour bouteilles Expanding Bottle Stopper (Machine translation)

Family:

Publication number	Publication date	Application number	Application date
FR1354686 A	19640612		00000000

Probable Assignee:

LAZARUS FRERES

Assignee(s)^(std):

LAZARUS FRERES

Assignee(s):

LAZARUS FRERES S A R L

International class
(IPC 8-9):

[B65D39/12](#) (Advanced/Invention);
[B65D39/00](#) (Core/Invention)

International class
(IPC 1-7):

[B65D39/12](#)

CPC:

[B65D39/12](#)

European class:

[B65D39/12](#)

[Classification Explorer](#)

Forward Citations:

FR2535576,

Abstract:

Source: FR1354686A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. inferieure de la plaquette 3 est plane pour permettre de l'adapter sur tous les goulots des bouteilles, mais elle presente un rebord annulaire 11.

Machine translation: (Claim 1) CAUTION ** ** start of CLMS field may contain end of DESC **. The lower plate 3 is flat to allow the fit on all bottle necks, but it presents an edge annular 11.

53) Family number: 30257184 (US2004007594A)

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Title: BONUS FLAVOR DISPENSER**Priority:** US20020191083 20020709 WO2003US21427 20030701

Family:	Publication number	Publication date	Application number	Application date
	AU2003253831 AA	20040123	AU20030253831	20030701
	US2004007594 AA	20040115	US20020191083	20020709
	WO04005155 A1	20040115	WO2003US21427	20030701

Probable Assignee: COCA COLA CO**Assignee(s):^(std):** BRAUN HENRIQUE ; COCA COLA CO ; ESCH WILLY VAN**Assignee(s):** THE COCA COLA COMPANY**Inventor(s):^(std):** BRAUN HENRIQUE ; ESCH WILLY VAN ; VAN ESCH WILLY**Inventor(s):** WILLY VAN ESCH ; HENRIQUE BRAUN

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

International class
(IPC 8-9): [B65D51/28](#) (Advanced/Invention);
[B65D51/24](#) (Core/Invention)

International class
(IPC 1-7): [B65D51/28](#) [B67D5/60](#)

CPC: [B65D51/28](#)**European class:** [B65D51/28](#)**US class:** [222/145.1](#)[Classification Explorer](#)

Cited documents: US6540112 BA, US6263923 BA, US6176395 BA, US6126983 A, US6047859 A, US5941380 A, US5778761 A, US5706980 A, US5653157 A, US5441752 A, US5353964 A, US4993595 A, US4695468 A, US4653281 A, US4585150 A, US4441632 A, US3989165 A, US3887069 A, US3851800 A, US3464593 A, US2107309 A, US2003205548 AA, US2002008116 AA, GB2307903 A1,

Forward Citations: WO11003048, US9764935, US9586733, US9359183, US9193575, US8985396, US8814000, US8746506, US8434642, US8365960, US8162176, US2016016704, US2011089189, US2009188938, US2009069932, US2007138179, US2007075081, US2007075079, US2007045342,

Abstract:

Source: US2004007594A A device for adding an amount of a secondary fluid to a primary fluid stream. The device may include an outer shell, an inner compartment for storing the secondary fluid, and a flow path defined between the outer shell and the inner compartment for the primary fluid stream. A flow control device may be positioned within the inner compartment so as to control the amount of the secondary fluid added to the primary fluid stream.

0) CN2590912Y – INTEREST BOTTLE CAP

54) Family number: 30087683 (CN2590912Y)

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Title: Interest bottle cap

Priority: CN20022046685U 20020822

Family:	Publication number	Publication date	Application number	Application date
	<u>CN2590912 Y</u>	20031210	CN20022046685U	20020822

Probable Assignee: LIU QING

Assignee(s):^(std): LIU QING

Inventor(s):^(std): LIU QING

Inventor(s): QING LIU

International class B65D51/28 B65D77/24 (Advanced/Invention);
(IPC 8-9): B65D51/24 B65D77/24 (Core/Invention)

International class B65D51/28 B65D77/24
(IPC 1-7):

[Classification Explorer](#)

Abstract:

Source: CN2590912Y The utility model relates to an interest bottle cap, which is characterized in that the utility model comprises a top cap, a cap body, and a game stage property, wherein, the cap body is arranged on a bottle neck and is provided with an inner cup which downwards extends out, the game stage property is positioned in the inner cup, and the top cap is arranged on the top of the cap body. The utility model is used for a beverage bottle, and also has the function of a game except the function of sealing and cleaning. A drinker can enjoy the delicious taste of a beverage and simultaneously can enjoy the happiness of the game. The utility model is suitable for using on beverage bottles of drinking water, fruit juice, vegetable juice, alcohol, etc.

55) Family number: 15463701 (US6429243B)

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Title: POLYESTER RESIN COMPOSITION
Priority: JP19960341752 19961220 JP19970316684 19971118 WO1998JP02627 19980615
Family:

Publication number	Publication date	Application number	Application date
<u>AU199876752 A1</u>	20000105	AU19980076752	19980615
<u>AU199876752 A5</u>	20000105	AU19980076752	19980615
<u>AU750299 B2</u>	20020718	AU19980076752	19980615
<u>CA2334665 AA</u>	20001208	CA19982334665	19980615
<u>CN1304430 A</u>	20010718	CN19988014199	19980615
<u>EP1111006 A1</u>	20010627	EP19980924624	19980615
<u>EP1111006 A4</u>	20021025	EP19980924624	19980615
<u>JP10231414 A2</u>	19980902	JP19970316684	19971118
<u>JP3665192 B2</u>	20050629	JP19970316684	19971118
<u>KR20010052858 A</u>	20010625	KR20007014194	19980615
<u>TW492997 B</u>	20020701	TW19980109760	19980618
<u>US6429243 BA</u>	20020806	US20000719174	20001215
<u>WO9965987 A1</u>	19991223	WO1998JP02627	19980615

Probable Assignee: KURARAY CO LTD
Assignee(s):^(std): KURARAY CO ; KURARAY CO LTD ; OKAMOTO CHIHIRO ; TANIGUCHI SHUNRO
Inventor(s):^(std): CHIHIRO OKAMOTO ; OKAMOTO CHIHIRO ; SHUNRO TANIGUCHI ; TANIGUCHI SHUNRO ; TANIGUCHI TOSHIRO ; OKAMOTO TOMOHIRO
Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; KIRBY EADES GALE BAKER
Designated states: AT AU BE CA CH CN CY DE DK ES FI FR GB GR IE IT KR LI LU MC NL NO PT SE SG US
International class
 (IPC 8-9): B32B27/10 B32B27/36 B65D65/40 B65D81/24 C08J5/18 C08K3/10 C08K5/00 C08K5/098 C08K5/521 C08L23/02 C08L23/06 C08L33/06 C08L35/06 C08L53/00 C08L67/00 C08L67/02 (Advanced/Invention);
C08L23/02 C08L53/00 C08L67/02 (Advanced/Non-invention);
B32B27/10 B32B27/36 B65D65/40 B65D81/24 C08J5/18 C08K3/00 C08L67/00 (Core/Invention);
C08L23/00 C08L53/00 (Core/Non-invention)
International class
 (IPC 1-7): B32B27/10 B32B27/36 B65D1/00 B65D65/40 B65D81/24 C08J5/18 C08K3/10 C08K3/24 C08K5/00 C08K5/098 C08K5/51 C08K5/521 C08L23/06 C08L27/02 C08L33/06 C08L35/06 C08L67/00 C08L67/02
CPC: Y10T428/1303 Y10T428/1352 C08L53/00 Y10T428/3179 C08L67/02 C08L23/02
European class: C08L67/02 M08L23/02 M08L53/00 M08L67/02
US class: 428/34.2 428/35.7 428/481 523/505 523/506 524/127 524/398 524/513

[Classification Explorer](#)

Cited documents: WO9738038 A1, US6083585 A, US6022603 A, JP9302204, JP9291203 A2, JP9255855 A2, JP8311313 A2, JP7323512 A2, JP60004055 A2, JP59213756 A2, JP49007400, JP4500387 T2, JP10067924 A2, JP10017754 A2, EP0892000 A1,

Forward Citations: US8771583, US8716378, US8686072, US8680167, US8617673, US8404755, US8188172, US8138244, US8080191, US8034870, US7935737, US7923506, US7855238, US7829614, US7812077, US2014312525, US2013052459, US2009036578, US2008139711, US2005137297, JP6213256, JP2015137285, JP2012111818, JP2010229202,

Abstract:

Source: US6429243B (A) A polyester resin composition comprising a copolymerized polyethylene terephthalate

(copolymerized PET) comprising 5 to 40 mole percent of naphthalenedicarboxylic acid units, a cobalt compound and/or a manganese compound, an olefin polymer and a compatibility-improving agent, in specific amounts; and (B) a polyester resin composition comprising the above copolymerized PET which contains specific amounts of both a cobalt compound and a manganese compound are excellent in resistance to hydrogen peroxide, flavor-barrier properties, gas-barrier properties, heatsealability and mechanical properties such as elongation and strength and, utilizing these features, are effectively usable for various end-uses in particular as packaging materials for beverages such as fruit juices containing flavor components.

56) Family number: 22580662 (FR1229221A)

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Title: CONCENTRE DE BOISSON GAZEUSE ET RECIPIENT POUR SON UTILISATION GAS
DRINK CONCENTRATE AND CONTAINER FOR USE (Machine translation)**Priority:** 19580716 FR19590799052 19590701

Family:	Publication number	Publication date	Application number	Application date	
	<u>FR1229221 A</u>	19600905	FR19590799052	19590701	

Inventor(s):^(std) NAUD FREDERIC**International class**
^{(IPC 8-9):} A23L2/40 B65D1/04 (Advanced/Invention);
A23L2/40 B65D1/04 (Core/Invention)**International class**
^{(IPC 1-7):} A23L2/38**CPC:** A23L2/40 B65D1/04**European class:** A23L2/40 B65D1/04[Classification Explorer](#)**Forward Citations:** WO9005674, EP1781357,**Abstract:**

Source: FR1229221A (Claim 1) 1 **ATTENTION** debut du champ CLMS peut contenir fin de DESC **. accolés ou liés l'un à l'autre d'une manière quelconque pour contenir séparément les deux produits réactifs jusqu'à leur mélange effectuée au moment de la préparation de la boisson gazeuse. L'invention s'étend, à titre de produits industriels nouveaux, aux récipients à deux compartiments ou aux paires de récipients accolés garnis, l'un d'un jus de fruit ou autre élément de boisson acide, l'autre d'un sirop de sucre ou autre élément alcalin, ces récipients étant agencés pour permettre de vider leur contenu dans un verre à boire afin de produire la réaction gazeuse. RESUME L'invention a pour objet 10 Un nouveau produit industriel constitué par un élément de boisson acide, tel que jus de fruit concentré, et un élément alcalin, tel que sirop de sucre alcalinisé, qui sont contenus séparément dans deux compartiments d'un récipient ou dans deux récipients accolés ou associés de façon à permettre de verser ces deux éléments réactifs dans un verre à boire pour y produire un dégagement gazeux;

Machine translation: (Claim 1) 1 ** WARNING ** start of CLMS field may contain end of DESC **. joined or linked one to another in a manner whatsoever for the two products separately contain reagents mixing up their place at the time of preparation of the soft drink. The invention extends, as a new industrial products, in containers or compartments has two pairs of adjoining furnished containers, one of a fruit juice or other acid beverage element, the other a syrup sugar or other alkaline element, these containers being to allow agencies to empty their contents into a drinking glass to produce the reaction gas. SUMMARY The invention relates to a new industrial product 10 constitutes an element of acidic beverage such as fruit juice concentrates, and an alkaline element, such as alkaline sugar syrup, which are contained separately in two compartments of a container or in two containers joined or associated way of a permit to dump these two elements in a reactive glass to drink in order to produce a release of gas;

57) Family number: 19716300 (GB634996A)

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Title: An improved method of preserving organic products containing liquid, and a capsule for use therein

Family:	Publication number	Publication date	Application number	Application date
	<u>GB634996 A</u>	19500329	GB19470004637	19470218

Probable Assignee: JOSEPH FRASCARI

Assignee(s):^(std): JOSEPH FRASCARI

International class
(IPC 8-9): A23L2/46 A23L3/00 B65D79/00 (Advanced/Invention);
A23L2/42 A23L3/00 B65D79/00 (Core/Invention)

International class
(IPC 1-7): B65D41/10

CPC: A23L2/46 A23L3/00 B65D79/005

European class: A23L2/46 A23L3/00 B65D79/00B

[Classification Explorer](#)

Abstract:

Source: GB634996A [Class 125 (iii)] A method of preserving an organic product containing liquid, e.g. fruit juice, comprises filling a bottle 4, Fig. 2, to the brim with the heated liquid, placing a resilient washer 3 over the brim in contact with the liquid, and clamping the washer to the bottle with an apertured capsule 1. In the event of excess pressure developing the washer will bulge through the aperture. The washer may be formed with a projection 5, Fig. 4, whereby the vacuum formed in the head space on cooling may be increased by pulling the projection 5 until the washer is again flat and clamping it in position by lug members 6 provided on the capsule.

58) Family number: 20931279 (DE1085326B)

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Title: VERFAHREN ZUM IMPRAEGNIEREN VON FLASCHENVERSCHLUSS–KORKSTOPFEN Method for impregnating BOTTLE CAP–cork (Machine translation)

Priority: DE1959O006863 19590709 DE1964O010185 19640608 FR19600826080 19600503
FR19640998003 19641209 FR19650004868 19650209

Family:	Publication number	Publication date	Application number	Application date
	CH397454 A	19650815	CH19600003592	19600330
	DE1085326 B	19600714	DE1959O006863	19590709
	DE1218694 B	19660608	DE1964O010185	19640608
	FR1255884 A	19610310	FR19600826080	19600503
	FR87368 E	19660729	FR19640998003	19641209
	FR88002 E	19661125	FR19650004868	19650209

Probable Assignee: OHLINGER RUDOLF**Assignee(s):**^(std): OHLINGER RUDOLF ; RUDOLF OHLINGER**Inventor(s):**^(std): OHLINGER RUDOLF ; RUDOLF OHLINGER

International class
(IPC 8–9): [B27K7/00 B65D39/00](#) (Advanced/Invention);
[B27K7/00 B65D39/00](#) (Core/Invention)

International class
(IPC 1–7): [B27K7/00 B65D39/00](#)

CPC: [B65D39/00 B65D39/0011 C08L97/007 C08L89/06 B27K7/00 B27K3/0221 B27K5/001 B27K3/0271 B27K3/0278 B27K5/0095 B67B1/03](#)

European class: [B27K3/02A7 B27K3/02H B27K3/02Z B27K5/00H B27K5/00W B27K7/00 B65D39/00 B65D39/00F1 L67B1/03 M08L89/06](#)

[Classification Explorer](#)**Cited documents:** DE889221 A, DE36433 A, DE139948 A, DE130555 A,**Abstract:**

Source: DE1085326B (Claim1) Verfahren zum Imprägnieren von Flaschen verschluss–Korkstopfen fuer alkoholische Getraenke, Fruchtsaeften, saeurehaltige und aehnliche Fluessigkeiten, durch Behandeln der Korkstopfen mit Loesungen leimartiger Naturstoffe, dadurch gekennzeichnet, dass die Stopfen nach an sich bekannter Reinigung mit Wasser mit einer waessrigen Ge–latineleuesung behandelt werden.

Machine translation: (Claim1) method for impregnation of bottle closure, cork stoppers for alcoholic drinks, fruit juices, acidic and similar liquids, solutions by treating the cork with Loosening glue–like natural products, characterized in that the stopper after conventional cleaning with water an aqueous Ge–latineleuesung be treated.

59) Family number: 30354557 (US3556356A)

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Title: DEVICE FOR DISPENSING CARBONATED BEVERAGES**Priority:** CH19670010609 19670724 DE19671982858 19671117 DE19691954377 19691029
DE19691982858 19671117 DE19691954378 19691029 DE1967B073499U 19671117**Family:**

Publication number	Publication date	Application number	Application date
<u>AT290325 B</u>	19710525	AT19680006804	19680715
<u>AT298281 B</u>	19720425	AT19690008632	19680715
<u>AU197021421 A1</u>	19720427	AU19700021421	19701022
<u>BE711072 A</u>	19680701		19680221
<u>BE723791 A</u>	19690416		19681113
<u>CH475913 A</u>	19690731	CH19670010609	19670724
<u>CH482627 A</u>	19691215	CH19680015973	19681026
<u>DE1632029 A1</u>	19700709	DE19671632029	19670816
<u>DE1954377 A1</u>	19710506	DE19691954377	19691029
<u>DE1954378 A1</u>	19710506	DE19691954378	19691029
<u>DE1954378 C2</u>	19820603	DE19691954378	19691029
<u>DE1979519 U</u>	19680222	DE1967B073490U	19671116
<u>DE1981178 U</u>	19680314	DE1967B073491U	19671116
<u>DE1982858 U</u>	19680404	DE1967B073499U	19671117
<u>DE6601635 U</u>	19690313	DE19660001635U	19670816
<u>ES346578 A1</u>	19690516	ES19670346578	19671030
<u>ES360170 A1</u>	19700616	ES19680360170	19681112
<u>FR1581043 A</u>	19690912		19680709
<u>GB1175986 A</u>	19700101	GB19670048273	19671024
<u>GB1214092 A</u>	19701202	GB19680054558	19681118
<u>IE32953 B</u>	19740206	IE19680000890	19680724
<u>IE32953 L</u>	19690124	IE19680000890	19680724
<u>JP53006594 B4</u>	19780309	JP19680060201	19680823
<u>NL6810191 A</u>	19690128	NL19680010191	19680718
<u>SE349548 B</u>	19721002	SE19680009775	19680717
<u>SE370060 B</u>	19740930	SE19710008765	19680717
<u>SE370060 C</u>	19750116	SE19710008765	19680717
<u>US3556356 A</u>	19710119	US19680747298	19680724

Probable Assignee: BARREL FRESH SERVICE AG**Assignee(s):^(std):** BARREL FRESH SERVICE A G ; BARREL FRESH SERVICE AG**Assignee(s):** BARREL FRESH SERVICE AG CH ; BARREL FRESH SERVICE AG CHUR CH ;
BARREL FRESH SERVICE CH AG ; BARREL FRESH SERVICE CHUR CH AG**Inventor(s):^(std):** DORSCH DIETER ; ERICH MOECKESCH ; JAG TILO ; MOCKESCH E ; MOCKESCH
ERICH ; MOECKESCH E ; SCHUSTER W ; SCHUSTER WILHELM ; SCHUSTER W DT ;
MOECKESCH ERICH ; MOCKESCH E DT ; WILHELM SCHUSTER**Inventor(s):** VERZICHT DES ERFINDERS AUF NENNUNG ; DIETER DORSCH ; ERICH MOCKESCH
; TILO JAG**International class** B67D1/04 B67D1/08 B67D1/14 F17C13/06 (Advanced/Invention) ;
(IPC 8-9) : B67D1/00 (Core/Invention) ;
B67D C12L (Subclass/Invention)**International class** B65D1/20 B65D17/06 B65D39/08 B65D47/04 B65D83/00 B67D B67D1/00 B67D1/02
(IPC 1-7) : B67D1/04 B67D1/08 B67D3/04 C08L1/08 C12L F17C13/06

CPC: B67D1/0412 B67D1/14 B67D1/0807 B67D1/0808 B67D1/0829

European class: B67D1/04B B67D1/08B B67D1/14

US class: 222/1 222/399

[Classification Explorer](#)

Cited documents: US3403820 A, US3372838 A, US3315844 A,

Forward Citations: US5246140, US4674662, US4595121, US4552477, US3883043, US2009224000, GB2240330, GB2167533, GB2165531, DE3145694,

Abstract:

Source: GB1175986A 1,175,986. Valves. BARREL FRESH SERVICE A.G. 24 Oct., 1967 [24 July, 1967], No. 48273/67. Heading F2V. [Also in Divisions B8 and F1] A pressure-reducing valve forming part of a beverage dispenser (see Division F 1) has a precision bore 30 with a valve shank 29 sliding in it, the valve shank having a slight radial clearance with the bore. Attached to the valve shank is a hollow pull rod 28 which passes through an O-ring seal 27 and a bush 26 which serves as a seat for the O-ring. The O-ring seals between the pull rod 28 and the bore. The low pressure end of the pull rod is attached to a membrane mount 24 so that if the pressure rises and deflects the membrane, the pull rod draws the valve shank against the O-ring, thus closing the valve. Pressure adjustment is by a knob (9), which controls the loading on a spring 23.

60) Family number: 2274672 (GB2210014A)

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Title: A medicine and beverage package**Priority:** GB19870022466 19870924

Family:	Publication number	Publication date	Application number	Application date
	<u>GB2210014 A1</u>	19890601	GB19870022466	19870924
	GB8722466 A0	19871028	GB19870022466	19870924

Probable Assignee: INSTONE D M**Assignee(s):^(std):** INSTONE D M ; INSTONE DAVINA MARY**Assignee(s):** DAVINA MARY INSTONE**Inventor(s):^(std):** INSTONE DAVINA MARY**Inventor(s):** DAVINA MARY INSTONE

International class B65D51/28 (Advanced/Invention);
^{(IPC 8-9):} B65D51/24 (Core/Invention)

International class B65D25/10 B65D41/20 B65D85/56
^{(IPC 1-7):}

CPC: B65D51/28**European class:** B65D51/28[Classification Explorer](#)**Cited documents:** GB873706 A, GB854163 A, GB2118515 A1, GB2040864 A1, GB1327355 A,**Forward Citations:** US7886504, GB2435027, GB2336148, GB2321231, GB2289254, FR2896487, EP1824740,**Abstract:**

Source: GB2210014A A medicine package is provided which includes a medicine in solid form 18 and a vessel 12. The vessel contains a quantity of beverage 14 which is sufficient to help an individual take the medicine. The package further includes means 16, e.g. a sealing foil laminate, for releasably sealing the beverage in the vessel and means for preventing contact between the medicine and the beverage. The vessel may be of plastics material and may be bottle shaped, the medicine being located between a sealing means located across the top of the bottle and a screw cap (Figure 2).

0) NL1023307C – SEALED PACKAGING, E.G. FRUIT JUICE BOTTLE, HAS ...

61) Family number: 31481305 (NL1023307C)

© PatBase

Title: SEALED PACKAGING, E.G. FRUIT JUICE BOTTLE, HAS SEAL FORMED BY COLLAR SECURED TO PACKAGING NECK AND EXTENDING AROUND CLOSURE PART

Priority: NL20031023307 20030429

Family:	Publication number	Publication date	Application number	Application date
	NL1023307 C1	20041101	NL20031023307	20030429

Probable Assignee: HEIJN BV ALBERT

Assignee(s):^(std): HEIJN ALBERT BV ; HEIJN BV ALBERT

Assignee(s): ALBERT HEIJN B V ; ALBERT HEIJN BV

Inventor(s):^(std): EGMOND MARIT WILHELMINA EMMA V ; LIMPERS LUDOVICUS BERNARDUS GA

Inventor(s): LUDOVICUS BERNARDUS GAULLAUME MARIE LIMPERS ; MARIT WILHELMINA EMMA VAN EGMOND

International class B65D23/08 B65D55/08 (Advanced/Invention);
(IPC 8-9): B65D23/00 B65D55/02 (Core/Invention)

International class B65D23/08 B65D41/28
(IPC 1-7):

CPC: B65D23/085 B65D55/08

European class: B65D23/08D1 B65D55/08

[Classification Explorer](#)

Abstract:

Source: NL1023307C The seal comprises a collar (3) secured to the packaging neck (2) and extending around the closure part (4) for the packaging. Independent claims are also included for the following: (a) Collar used for this packaging, comprising at least one adhesive region (7) for securing it to the packaging (1); (b) Blank (16) with an adhesive region for forming the collar; and (c) Holder for the packaging, which has a neck with at least one truncated cone-shaped region.

62) Family number: 15297623 (WO0114220A1)

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Title: DISPENSING CONTAINER AND METHOD FOR DISPENSING
Priority: GB19980017966 19980819 WO1999GB02608 19990819
Family:

Publication number	Publication date	Application number	Application date
AU199954298 A1	20010319	AU19990054298	19990819
AU199954298 A5	20010319	AU19990054298	19990819
GB2353264 A1	20010221	GB19990019611	19990819
GB2353264 B2	20040421	GB19990019611	19990819
GB9817966 A0	19981014	GB19980017966	19980819
GB9919611 A0	19991020	GB19990019611	19990819
WO0114220 A1	20010301	WO1999GB02608	19990819

Probable Assignee: TASTE 2 LTD

Assignee(s):^(std): SWEETAPPLE MATTHEW J ; SWEETAPPLE MATTHEW JOHN ; TASTE 2 LIMITED ; TASTE 2 LTD

Inventor(s):^(std): MATTHEW JOHN SWEETAPPLE ; SWEETAPPLE MATTHEW JOHN

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

International class
 (IPC 8-9): [A47G19/22 B65D1/04 B65D81/32](#) (Advanced/Invention);
[A47G19/12](#) (Advanced/Non-invention);
[A47G19/22 B65D1/04 B65D81/32](#) (Core/Invention);
[A47G19/00](#) (Core/Non-invention)

International class
 (IPC 1-7): [A47G19/22 B65D25/00 B65D81/32](#)

CPC: [A47G19/2266 A47G2019/122 B65D1/04 B65D81/3288](#)

European class: [A47G19/22B12 B65D1/04 B65D81/32L2 K47G19/12B](#)

[Classification Explorer](#)

Cited documents: WO9104923 A1, US5806765 A, US5588561 A, US5062550 A, US4984715 A, US4955503 A, US4462503 A, US4194619 A, US4148417 A, US4139114 A, US3954207 A, GB2315057 A1, GB2291852 A1, GB2275666 A1, GB2182639 A1, GB2037700 A1, EP0263211 A1, EP0238878 A2,

Forward Citations: WO08059082, GB2407805, GB2376456, CN103708070,

Abstract:

A package includes two or more chambers (3) holding respective potable fluids having differing taste characteristics, and outflow ducts, for example in the form of straws (10), for extending from the respective chambers (3) towards the mouth of a consumer to lead respective streams of the respective fluids towards the mouth, so that the streams impinge concurrently upon respective groups of taste buds in the mouth, so giving differing taste sensations, and that the streams then mix in the mouth.

0) US2010098816A – FRESHNESS PROLONGING SMART BEVERAGE CONTAINER

63) Family number: 44928661 (US2010098816A)

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Title: FRESHNESS PROLONGING SMART BEVERAGE CONTAINER

Priority: US20080288459 20081021

Family:	Publication number	Publication date	Application number	Application date
	<u>US2010098816 AA</u>	20100422	US20080288459	20081021

Probable Assignee: ANVIK CORP

Assignee(s):^(std): ANVIK CORP

Inventor(s):^(std): JAIN KANTI

Agent(s): ANVIK CORP

International class B65D81/24 B65D85/72 (Advanced/Invention)
(IPC 8-9):

CPC: B65D81/245 B65D85/80

European class: B65D81/24B L65D85/80

US class: 426/124 426/124P

[Classification Explorer](#)

Cited documents: US7255244 BB, US7159736 BA, US5993096 A, US5402908 A, US5339981 A, US5305909 A, US5117998 A, US5090309 A, US4874108 A, US4723674 A, US4625886 A, US4416387 A, US3987941 A, US3974758 A, US3752354 A, US3380624 A, US3266662 A, US2828886 A, US2609119 A, US2556195 A, US2453274 A, US2167619 A, US2098903 A, US2007215624 AA, US2007194057 AA, US2004238544 AA, US2003102311 AA, US1948353 A, US1818924 A, US1284751 A, GB2141413 A1,

Forward Citations: US9694328, US2016158712,

Abstract:

Source: US2010098816A The invention is a container for liquids, such as milk, juices and wines, which are subject to spoilage enhanced by contact with air. The container may be partially filled with liquid in a sub-chamber made anaerobic by a divider plate positioned on—the surface of the liquid and fitting sufficiently snugly within the container. The divider plate prevents contact between the beverage and air and thus reduces air-induced spoilage. Various embodiments provide springs and divider pullers to place the divider at the liquid surface, easy pouring and easy cleaning. A significant intended use is prolonging freshness of beverages in environments lacking refrigeration.

Priority: DE19870009251U 19870704**Family:**

Publication number	Publication date	Application number	Application date
<u>DE8709251 U1</u>	19870827	DE19870009251U	19870704

Probable Assignee: DEUTSCHE GRANINI GMBH AND CO KG 4800 BIELEFELD DE**Assignee(s):** DEUTSCHE GRANINI GMBH AND CO KG 4800 BIELEFELD DE

International class B65D51/28 (Advanced/Invention);
 (IPC 8-9): B65D51/24 (Core/Invention)

International class B65D25/04 B65D25/08 B65D41/30 B65D85/72
 (IPC 1-7):

CPC: B65D51/28**European class:** B65D51/28[Classification Explorer](#)**Abstract:**

Source: DE8709251U1 (Claim 1) 1. Behaelter fuer Fruchtsaft-Konzentrat, d a d u r c h g e k e n n z e i c h n e t, dass der Behaelter (10) vorzugsweise eine ballige Aussenkontur aufweist und mit einem zentralen, den Behaelter (10) vollstaendig durchdringenden Durchflusskanal (11) versehen ist, dessen Wandungen (12) den Fuellraum (13) des Behael- ters (10) innenseitig begrenzen und welcher an einem Ende mit einem Flaschengewinde (14) ausgestattet und an seinem anderen Ende als verschliessbare Ausguss- oeffnung (15) ausgebildet ist, wobei die Ausgiessoeff- nung (15) mittels einer Verschlusskappe (17) gemein- sam mit der Austrittsoeffnung (16) des Behaelters (10) verschliessbar ist.

Machine translation: (Claim 1) 1 Containers for fruit juice concentrate, wherein the container (10) preferably has a convex outer contour and a central, the container (10) completely penetrating the flow channel (11) is provided, the walls (12) the filling chamber (13) of the container – age (10) limit on the inside and who is at one end with a bottle thread (14) fitted at its other end a closable drain opening (15), wherein the Ausgiessoeff-tion (15) by a closure cap (17) common – together with the Austrittsoeffnung (16) of the container (10) is closable.

65) Family number: 3350183 (FR2271997A)

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Title: CONTAINER FOR PERISHABLE LIQ. – HAS VACUUM FILLED PLASTICS BAG IN RIGID OUTER CONTAINER WITH LAYER OF FOAM AND SPRINGS**Priority:** FR19740018118 19740524

Family:	Publication number	Publication date	Application number	Application date
	<u>FR2271997 A1</u>	19751219	FR19740018118	19740524
	<u>FR2271997 B1</u>	19780113	FR19740018118	19740524

Probable Assignee: WAIS FRIDOLIN**Assignee(s):^(std):** WAIS FRIDOLIN**Assignee(s):** WAIS FRIDOLIN DT

International class B65D77/04 B65D77/30 (Advanced/Invention);
 (IPC 8-9): B65D77/04 B65D77/22 (Core/Invention)

International class B65D11/04 B65D77/06 B65D8/00 B65D81/20 B65D85/72
 (IPC 1-7):

CPC: B65D77/04 B65D77/30**European class:** B65D77/04 B65D77/30[Classification Explorer](#)**Abstract:**

Source: FR2271997A (Claim 1) REVENDICATIONS 1 – Dispositif resistant a la pression de stockage et de transport, pour remplissage sterile ainsi que pour soutirages steriles aussi frequents que desire, en particulier des liquides, caracterise en ce qu'il est prevu un sac interieur mince (3) etanche au contenu comportant une piece de soutirage (4, 4') repliable sur elle-meme de facon compacte qui, par l'ouverture (6') d'une premiere piece de jonction ou bague de jonction (16) est reliee de facon etanche a un sac interieur (1) en materiau robuste et a l'ouverture d'une deuxieme piece qui sert de contre-partie et entoure une partie du dispositif de fermeture (5) de l'orifice (41) du sac interieur (3) que constitue la bague (17), et en ce que les parois du sac exterieur (1) sont rembourrees interieurement par une couche de mousse (7) a laquelle se joint en plus une couche intermediaire constituee de feuilles d'un materiau etanche au gaz, pourvue de fentes perpendiculaires a la direction de l'expansion ulterieure du sac interieur (3), qui forme la paroi interieure du sac exterieur (1) et entoure le sac interieur (3) d'une couche etanche (8) dont les fentes (9) sont recouvertes, du cote de la mousse, par des languettes-clapets (10) pressees contre la mousse. A sterile inner plastic bag is placed in a rigid outer container. Between these is a thickness of plastic foam and layer of flat leaf springs. The bag is vacuum filled with the liquid, fruit juice, or similar, and the neck sealed. Liquid pressure compresses springs and foam, providing latent pressure to expel the contents. The tap fits over, and is secured onto, the outer container and has jaws operating crocodile fashion. The bag neck is gripped between the foam lined jaws by small projections, moulded in, and is opened by integral cutting edges. A spring valve controls the flow.

66) Family number: 40985421 (EP1870346A1)

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Title: PLASTIC CLOSURE SYSTEM AND METHOD FOR ITS PRODUCTION**Priority:** DE200610028106 20060619**Family:**

Publication number	Publication date	Application number	Application date
<u>DE102006028106 A1</u>	20071220	DE200610028106	20060619
<u>EP1870346 A1</u>	20071226	EP20070011982	20070619

Probable Assignee: KUEHN HANS**Assignee(s):^(std):** KUEHN HANS**Inventor(s):^(std):** KUEHN HANS**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 MK MT NL PL PT RO SE SI SK TR YU**International class** (IPC 8-9): B29C45/16 B65D47/08 B65D47/24 (Advanced/Invention);
B29C45/16 B65D47/04 B65D47/08 (Core/Invention)**CPC:** B29C43/00 B29C45/1676 B29C2043/023 B29L2031/565 B65D5/746 B65D41/0442
B65D47/0804 B65D47/243 B65D2251/205**European class:** B65D41/04D1 B65D47/08B B65D47/24A2 B65D5/74D L29C43/00 L29C43/02B2
L29C45/16L L29L31/56B L65D251/20B[Classification Explorer](#)**Cited documents:** WO9740972, WO0232775 A1, US6257431 BA, US5873476 A, US5743443 A, GB2420777 A1, EP1316507 A2, EP0537346, DE20314138 U1, DE10000391 C1,**Forward Citations:** WO12052678, WO11091834, US9346200, US9221209, US9096353, FR2966444,**Abstract:**

A container e.g. a plastic bottle has a closure consisting of a lower section and a flip-top upper section. The flip-top upper section closes an aperture in the lower section between the bottle and the upper section. The aperture has a seal made of a plastic with higher elasticity than the surrounding material.

0) DE1064833B – EINSATZ FUER DEN HALS EINER AUS PLASTISCHEM KUN...

67) Family number: 22085314 (DE1064833B)

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Title: EINSATZ FUER DEN HALS EINER AUS PLASTISCHEM KUNSTSTOFF HERGESTELLTEN SPRITZFLASCHE, INSBESONDERE FUER FRUCHTSAEFTE, MIT EINEM BESONDEREN BEHAELTER FUER AROMATISCHE STOFFE APPLICATION FOR THE NECK OF A PLASTIC FROM PLASTIC BOTTLE SPRAY PRODUCED, IN PARTICULAR FOR FRUIT JUICES, WITH A SPECIAL CONTAINER FOR AROMATIC SUBSTANCES (Machine translation)

Priority: DE1958H033885 19580724

Family:	Publication number	Publication date	Application number	Application date
	<u>DE1064833 B</u>	19590903	DE1958H033885	19580724

Probable Assignee: PAUL HILDEBRANDT

Assignee(s):^(std): PAUL HILDEBRANDT

Inventor(s):^(std): HILDEBRANDT PAUL

International class
(IPC 8-9): B65D51/28 (Advanced/Invention);
B65D51/24 (Core/Invention)

International class
(IPC 1-7): B65D1/04

CPC: B65D51/28

European class: B65D51/28

[Classification Explorer](#)

Forward Citations: DE1175508,

68) Family number: 28620959 (US5876812A)

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Title: NANOCOMPOSITE POLYMER CONTAINER

Priority: US19960677282 19960709 US19970818116 19970314 WO1997US11853 19970707
US19990238252 19990127 US19990237396 19990127

Family:	Publication number	Publication date	Application number	Application date
	<u>AU199737950 A1</u>	19980202	AU19970037950	19970707
	<u>EP0932497 A2</u>	19990804	EP19970934890	19970707
	<u>EP0932497 A4</u>	19991006	EP19970934890	19970707
	<u>JP2001505165 T2</u>	20010417	JP19980505326T	19970707
	<u>US5876812 A</u>	19990302	US19960677282	19960709
	<u>US5916685 A</u>	19990629	US19970818116	19970314
	<u>US5972448 A</u>	19991026	US19990237396	19990127
	<u>US6265038 BA</u>	20010724	US19990238252	19990127
	<u>WO9801346 A2</u>	19980115	WO1997US11853	19970707
	<u>WO9801346 A3</u>	19980219	WO1997US11853	19970707

Probable Assignee: TETRA LAVAL HOLDINGS AND FINANCE SA

Assignee(s):^(std): FRISK PETER ; LAURENT JACQUES ; TETRA LAVAL HOLDINGS AND FINANCE

Assignee(s): TETRA LAVAL HOLDINGS AND FINANCE S A ; TETRA LAVAL HOLDINGS AND FINANCE SA ; PETER FRISK ; JACQUES LAURENT

Inventor(s):^(std): FRISK PETER ; LAURENT JACQUES

Inventor(s): PETER FRISK ; JACQUES LAURENT

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

International class
(IPC 8-9): B29C49/00 B29C49/06 B32B27/36 B65D1/00 C08K3/34 F16K3/18
F16K51/02 (Advanced/Invention);
B29C49/00 B29C49/06 (Advanced/Non-invention);
B32B27/36 C08K3/00 (Core/Invention);
B29C49/00 B29C49/06 (Core/Non-invention)

International class
(IPC 1-7): B05D7/00 B29D22/00 B32B17/10 B32B19/00 B32B27/06 B32B27/08 B32B27/34
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B65D30/16 C23C14/00 C23C16/48

CPC: Y10S383/906 F16K3/188 F16K51/02 Y10T428/13 Y10T428/1317 Y10T428/1321
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European class: B32B27/36 C08K3/34B F16K3/18P F16K51/02 L29B911/14B2B L29B911/14B2D
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L29C49/06 L29K105/16B L29K995/00F16B

US class: 222/566 383/104 383/107 383/120 383/205 383/906 428/195 428/195.1 428/204 428/210
428/216 428/323 428/329 428/331 428/336 428/338 428/339 428/34.1 428/34.6 428/34.7
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Abstract:

Source: US5876812A The container of the present invention is composed of a polymer material integrated with a plurality of nanosize particles of a clay mineral which act to enhance the barrier properties of the container. The polymer material may be PET, COPET or any mixture thereof. The nanocomposite polymer container decreases the permeability of various gases without substantially altering the fabrication method for producing containers composed of PET or COPET material, and without altering the containers themselves. The nanocomposite polymer containers of the present invention are able to accomplish this due to the minimal amount of clay integrated with the polymer material, between 0.1 percent and 10 percent weight of the container. The small amount of clay provides a substantial barrier due to the high aspect ratios of the clay particles which will vary between 100 and 2000. The nanocomposite polymer container may be produced using in situ polymerization, solution intercalation, or melt exfoliation to integrate the clay mineral with the polymer material matrix. The clay mineral may be smectite, vermiculite, halloysite or any synthetic analog thereof, with a preference for the montmorillonite species of smectite clays.

69) Family number: 31985221 (US5665439A)

© PatBase

Title: ARTICLES OF MANUFACTURE FASHIONED FROM HYDRAULICALLY SETTABLE SHEETS

Priority: US19920929898 19920811 US19930019151 19930217 US19930095662 19930721
US19930164012 19931207 US19930101500 19930803

Family:	Publication number	Publication date	Application number	Application date
	<u>US5665439 A</u>	19970909	US19930164012	19931207

Probable Assignee: E KHASHOGGI IND LLC

Assignee(s):^(std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES

Inventor(s):^(std): ANDERSEN PER JUST ; HODSON SIMON K

International class
(IPC 8-9): B01F3/12 B28B1/00 B28B1/52 B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02 B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00 B29C43/02 B29C43/22 B29C43/24 B29C43/34 B29C43/36 B29C43/38 B29C43/46 B29C45/00 B29C49/00 B29C51/00 B29C51/04 B29C51/10 B29C53/06 B29C55/18 B29C67/24 B29C70/50 B32B13/02 B32B27/04 B32B27/20 B32B37/14 B32B5/02 B65D43/16 B65D5/00 B65D65/38 B65D65/46 C04B14/06 C04B14/38 C04B16/02 C04B20/00 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/28 C04B28/00 C04B28/02 C04B38/00 C04B38/02 C04B40/00 C04B41/45 C04B41/61 C08L1/28 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 (Advanced/Invention);
B05B11/00 B05C1/08 B05C3/18 B05C5/02 B29C49/04 B29C49/06 B29C51/08 B29C53/58 B32B37/12 (Advanced/Non-invention)

International class
(IPC 1-7): B32B13/00 C04B14/00

CPC: B01F3/1214 B01F2003/125 B05C1/0826 B05C1/0834 B05C3/18 B05C5/0245 B28B1/00 B28B1/52 B28B3/00 B28B3/02 B28B3/126 B28B3/20 B28B3/2645 B28B7/42 B28B11/00 B28B11/003 B28B11/008 B28B13/021 B28B13/06 B28B23/0081 B28B23/0087 B28C7/02 B29C43/00 B29C43/003 B29C43/02 B29C43/22 B29C43/222 B29C43/24 B29C43/34 B29C43/46 B29C45/0013 B29C47/0019 B29C47/0021 B29C47/003 B29C47/0033 B29C49/0005 B29C49/0047 B29C49/04 B29C49/06 B29C51/002 B29C51/04 B29C51/08 B29C51/082 B29C51/10 B29C53/063 B29C53/58 B29C55/18 B29C67/242 B29C67/243 B29C70/50 B29C2043/3433 B29C2043/3689 B29C2043/463 B29C2043/464 B29C2043/466 B29C2049/4608 B29C2791/006 B29C2795/007 B29K2001/00 B29K2003/00 B29K2005/00 B29K2089/00 B29K2105/12 B29K2105/16 B29L2024/00 B29L2031/608 B29L2031/712 B32B5/02 B32B27/04 B32B27/20 B32B37/00 B32B37/12 B32B37/144 B65D5/00 B65D11/02 B65D43/162 B65D65/38 B65D65/466 B65D2301/20 B65D2565/385 C04B14/064 C04B16/02 C04B20/002 C04B20/0048 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/026 C04B26/28 C04B26/285 C04B28/00 C04B28/02 C04B38/0006 C04B38/02 C04B40/00 C04B40/0028 C04B40/006 C04B41/009 C04B41/45 C04B41/61 C04B2111/00129 C04B2111/00413 C04B2111/00612 C04B2111/00948 C04B2111/00965 C04B2111/27 C08L1/28 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 E05Y2900/602 Y10T428/1314 Y10T428/1321 Y10T428/1372 Y10T428/249968 Y02W30/97 B29C44/3402 B32B1/00 B32B3/266 B32B3/28 B32B7/12 B32B15/12 B32B15/14 B32B27/10 B32B27/12 B32B29/002 B32B2255/02 B32B2255/12 B32B2255/20 B32B2255/205 B32B2255/24 B32B2255/26 B32B2262/023 B32B2262/06 B32B2262/10 B32B2262/14 B32B2264/0214 B32B2264/04 B32B2264/06 B32B2264/12 B32B2307/41 B32B2307/414 B32B2307/54 B32B2307/546 B32B2307/732 B32B2439/40 B32B2439/70

European class: B01F3/12B2 B28B1/00 B28B1/52 B28B11/00 B28B11/00E B28B11/00E3 B28B13/02C B28B13/06 B28B23/00Z B28B23/00Z1 B28B3/00 B28B3/02 B28B3/12C B28B3/20 B28B3/26E B28B7/42 B28C7/02 B29C43/00B B29C43/02 B29C43/22 B29C43/22B B29C43/24 B29C43/34 B29C43/36 B29C43/38 B29C43/46 B29C45/00E B29C49/00B B29C51/00B B29C51/04 B29C51/10 B29C53/06B B29C55/18 B29C67/22D1 B29C67/24C B29C67/24C2 B29C70/50 B32B13/02 B32B27/04 B32B27/20 B32B37/00 B32B37/14B B32B37/14B B32B5/02 B65D11/02 B65D43/16B B65D5/00 B65D65/38 B65D65/46C C04B14/06G C04B16/02 C04B20/00D2 C04B20/00F C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/02B C04B26/28 C04B26/28B C04B28/00 C04B28/02 C04B38/00B C04B38/02 C04B40/00 C04B40/00D C04B40/00D7 C04B41/00V

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M04B111/00T66 M04B111/00T70 M04B111/27 P05D1/02 P05Y900/602

US class: 106/400 106/638 206/449 206/524.3 206/524.6 206/524.7 428/312.4 428/34.5 428/34.7
428/36.4 428/703

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Forward Citations: WO09017359, WO07053852, WO07053852, WO03048260, WO03004435, USRE45416,
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US2005205665, US2005158434, US2005089606, US2004265453, US2004177580,
US2004177579, US2004169087, US2004129182, US2004086603, US2003215640,

Abstract:

Source: US5665439A Articles of manufacture fashioned from sheets having a hydraulically settable matrix are disclosed, particularly food containers, beverage containers and packaging containers. Suitable compositions are prepared by mixing together a hydraulic binder, water, and appropriate additives (such as aggregates, fibers, and rheology-modifying agents) which impart predetermined properties so that a sheet formed therefrom has the desired performance criteria. Hydraulically settable sheets are formed from the mixture by extrusion, then calendering the sheets using a set of rollers and then drying the sheets in an accelerated manner to substantially harden the sheets. The resulting hydraulically settable sheets may have properties substantially similar to sheets made from presently used materials like paper, cardboard, polystyrene, or plastic. The sheets can be laminated, corrugated, coated, printed on, scored, perforated, cut, folded, rolled, spiral wound, molded, assembled and seamed to mass produce articles of manufacture from the sheets.

70) Family number: 33376227 (US5506046A)

© PatBase

Title: ARTICLES OF MANUFACTURE FASHIONED FROM SHEETS HAVING A HIGHLY INORGANICALLY FILLED ORGANIC POLYMER MATRIX

Priority: US19920929898 19920811 US19920982383 19921125 US19930095662 19930721
US19930101500 19930803 US19930152354 19931119 US19930158824 19931124

Family:	Publication number	Publication date	Application number	Application date
	<u>US5506046 A</u>	19960409	US19930158824	19931124

Probable Assignee: E KHASHOGGI IND LLC

Assignee(s):^(std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES

Inventor(s):^(std): ANDERSEN PER JUST ; HODSON SIMON K

Inventor(s): ANDERSEN PER J

**International class
(IPC 8-9):** B01F3/12 B05B11/00 B28B1/00 B28B1/52 B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02 B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00 B29C43/02 B29C43/22 B29C43/24 B29C43/34 B29C43/36 B29C43/38 B29C43/46 B29C45/00 B29C49/00 B29C49/06 B29C51/00 B29C51/04 B29C51/10 B29C53/06 B29C55/18 B29C67/24 B29C70/50 B29C71/00 B31B17/00 B32B13/02 B32B27/04 B32B27/20 B32B37/14 B32B5/02 B32B5/16 B32B9/00 B32B9/04 B65D43/16 B65D5/00 B65D65/38 B65D65/46 C04B14/00 C04B14/06 C04B14/10 C04B14/18 C04B14/20 C04B14/24 C04B14/28 C04B14/38 C04B16/02 C04B20/00 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/28 C04B28/00 C04B28/02 C04B38/00 C04B38/02 C04B40/00 C04B41/45 C04B41/61 C08J5/18 C08K13/02 C08L1/28 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 (Advanced/Invention); B05C1/08 B05C3/18 B05C5/02 B29C43/08 B29C49/04 B29C51/08 B29C53/58 B32B37/12 (Advanced/Non-invention)

**International class
(IPC 1-7):** B32B19/00 B32B27/20 B32B9/00 C08K3/00

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 M04B111/00T70 M04B111/80 M08J323/02 P05D1/02 P05Y900/602

US class: 229/164.1 229/406 229/5.81 229/931 428/152 428/182 428/220 428/292.1 428/294
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Forward Citations: WO9737841, WO14185925, WO11158240, WO11158240, WO07058983, WO07058983,
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Abstract:

Source: US5506046A Compositions, methods, and apparatus for manufacturing sheets having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form a sheet which has the desired performance criteria. The inorganically filled mixtures are formed into sheets by first extruding the mixtures and then passing the extruded materials between a set of rollers. The rolled sheets are dried in an accelerated manner to form a substantially hardened sheet, such as by heated rollers and/or a drying chamber. The inorganically filled sheets may have properties substantially similar to sheets presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. Such sheets can be cut, rolled, pressed, scored, perforated, folded, and glued to fashion articles from the sheets. They have especial utility in the mass production of containers, particularly food and beverage containers.

71) Family number: 33376258 (US5800647A)

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Title: METHODS FOR MANUFACTURING ARTICLES FROM SHEETS HAVING A HIGHLY INORGANICALLY FILLED ORGANIC POLYMER MATRIX

Priority: US19920929898 19920811 US19920982383 19921125 US19930157695 19931124
US19930095662 19930721 US19930101500 19930803 US19930152354 19931119

Family:	Publication number	Publication date	Application number	Application date
	<u>US5800647 A</u>	19980901	US19930157695	19931124

Probable Assignee: E KHASHOGGI IND LLC

Assignee(s):^(std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES LLC

Inventor(s):^(std): ANDERSEN PER JUST ; HODSON SIMON K

International class
(IPC 8-9): B01F3/12 B05B11/00 B28B1/00 B28B1/52 B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02 B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00 B29C43/02 B29C43/22 B29C43/24 B29C43/34 B29C43/36 B29C43/38 B29C43/46 B29C45/00 B29C49/00 B29C49/06 B29C51/00 B29C51/04 B29C51/10 B29C53/06 B29C55/18 B29C67/24 B29C70/50 B29C71/00 B31B17/00 B32B13/02 B32B27/04 B32B27/20 B32B37/14 B32B5/02 B32B5/16 B32B9/00 B32B9/04 B65D43/16 B65D5/00 B65D65/38 B65D65/46 C04B14/00 C04B14/06 C04B14/10 C04B14/18 C04B14/20 C04B14/24 C04B14/28 C04B14/38 C04B16/02 C04B20/00 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/28 C04B28/00 C04B28/02 C04B38/00 C04B38/02 C04B40/00 C04B41/45 C04B41/61 C08J5/18 C08K13/02 C08L1/28 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 (Advanced/Invention); B05C1/08 B05C3/18 B05C5/02 B29C43/08 B29C49/04 B29C51/08 B29C53/58 B32B37/12 (Advanced/Non-invention)

International class
(IPC 1-7): B29C37/02 B29C47/00 B29C59/00 B65B7/00

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Abstract:

Source: US5800647A Compositions, methods, and apparatus for manufacturing sheets having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form a sheet which has the desired performance criteria. The inorganically filled mixtures are formed into sheets by first extruding the mixtures and the passing the extruded materials between a set of rollers. The rolled sheets are dried in an accelerated manner to form a substantially hardened sheet, such as by heated rollers and/or a drying chamber. The inorganically filled sheets may have properties substantially similar to sheets presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. Such sheets can be rolled, pressed, scored, perforated, folded, and glued. They have especial utility in the mass production of containers, particularly food and beverage containers.

72) Family number: 31985239 (US5580409A)

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Title: METHODS FOR MANUFACTURING ARTICLES OF MANUFACTURE FROM HYDRAULICALLY SETTABLE SHEETS

Priority: US19920929898 19920811 US19920982383 19921125 US19930019151 19930217
US19950475320 19950407 US19930164132 19931207 US19930152354 19931119
US19930095662 19930721 US19930101500 19930803

Family:

Publication number	Publication date	Application number	Application date
<u>US5580409 A</u>	19961203	US19930164132	19931207
<u>US5679381 A</u>	19971021	US19950475320	19950407

Probable Assignee: E KHASHOGGI IND LLC

Assignee(s):^(std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES

Inventor(s):^(std): ANDERSEN PER JUST ; HODSON SIMON K

Inventor(s): ANDERSEN PER J

International class
(IPC 8-9): B01F3/12 B05B11/00 B28B1/00 B28B1/52 B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02 B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00 B29C43/02 B29C43/22 B29C43/24 B29C43/34 B29C43/36 B29C43/38 B29C43/46 B29C45/00 B29C49/00 B29C49/06 B29C51/00 B29C51/04 B29C51/10 B29C53/06 B29C55/18 B29C67/24 B29C70/50 B29C71/00 B31B17/00 B32B13/02 B32B27/04 B32B27/20 B32B37/14 B32B5/02 B32B5/16 B32B9/00 B32B9/04 B65D43/16 B65D5/00 B65D65/38 B65D65/46 C04B14/00 C04B14/06 C04B14/10 C04B14/18 C04B14/20 C04B14/24 C04B14/28 C04B14/38 C04B16/02 C04B20/00 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/28 C04B28/00 C04B28/02 C04B38/00 C04B38/02 C04B40/00 C04B41/45 C04B41/61 C08J5/18 C08K13/02 C08L1/28 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 (Advanced/Invention);
B05C1/08 B05C3/18 B05C5/02 B29C43/08 B29C49/04 B29C51/08 B29C53/58 B32B37/12 (Advanced/Non-invention)

International class
(IPC 1-7): B28B3/20 B29C47/00 B29C53/00 B32B31/00

CPC: B01F3/1214 B01F2003/125 B05C1/0826 B05C1/0834 B05C3/18 B05C5/0245 B28B1/00 B28B1/52 B28B3/00 B28B3/02 B28B3/126 B28B3/20 B28B3/2645 B28B7/42 B28B11/00 B28B11/003 B28B11/008 B28B13/021 B28B13/06 B28B23/00 B28B23/0081 B28B23/0087 B28C7/02 B29C43/00 B29C43/003 B29C43/02 B29C43/08 B29C43/22 B29C43/222 B29C43/24 B29C43/34 B29C43/36 B29C43/46 B29C45/0013 B29C47/0019 B29C47/0021 B29C47/003 B29C47/0033 B29C49/0005 B29C49/0047 B29C49/04 B29C49/06 B29C49/063 B29C51/002 B29C51/04 B29C51/08 B29C51/082 B29C51/10 B29C53/003 B29C53/58 B29C55/18 B29C67/24 B29C67/242 B29C67/243 B29C70/50 B29C71/0009 B29C2043/3433 B29C2043/3689 B29C2043/463 B29C2043/464 B29C2043/466 B29C2049/4608 B29C2791/006 B29C2795/007 B29K2001/00 B29K2003/00 B29K2005/00 B29K2089/00 B29K2105/12 B29K2105/16 B29L2024/00 B29L2031/608 B29L2031/712 B29L2031/7132 B31D1/005 B32B5/02 B32B9/00 B32B13/02 B32B27/04 B32B27/20 B32B37/00 B32B37/12 B32B37/144 B65D5/00 B65D11/02 B65D43/162 B65D65/38 B65D65/46 B65D65/466 B65D2301/20 B65D2565/385 C04B14/064 C04B16/02 C04B20/002 C04B20/0048 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/026 C04B26/28 C04B26/285 C04B28/00 C04B28/02 C04B38/0006 C04B38/02 C04B40/00 C04B40/0028 C04B40/006 C04B41/009 C04B41/45 C04B41/61 C04B2111/00129 C04B2111/00379 C04B2111/00413 C04B2111/00612 C04B2111/00948 C04B2111/00965 C04B2111/27 C04B2111/80 C08J5/18 C08J2323/02 C08L1/28 C08L1/286 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 E05Y2900/602 Y10T156/1002 Y10T156/1013 Y10T156/1015 Y10T156/1025 Y10T156/1064 Y02W30/97 B29C44/3402 B29C47/00 B31B50/32 B31B2105/00 B31B2105/0022 B31B2110/10 B31B2110/20 B31B2110/35

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US class:

156/196 156/203 156/204 156/210 156/244.18 156/244.24 156/257 156/285 156/292
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Abstract:

Source: US5580409A Compositions and methods for manufacturing containers from sheets having a hydraulically settable matrix. Suitable compositions are prepared by mixing together a hydraulic binder, water, and appropriate additives (such as aggregates, fibers, and rheology-modifying agents) which impart predetermined properties so that a sheet formed therefrom has the desired performance criteria. Hydraulically settable sheets are formed from the mixture by extrusion, then calendering the sheets using a set of rollers and then drying the sheets in an accelerated manner to substantially harden the sheets. The resulting hydraulically settable sheets may have properties substantially similar to sheets made from presently used materials like paper, cardboard, polystyrene, or plastic. The sheets can be laminated, corrugated, coated, printed on, scored, perforated, cut, folded, rolled, spiral wound, molded, assembled and seamed to mass produce articles of manufacture from the sheets such as food and beverage containers.

73) Family number: 33376250 (US5709913A)

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Title: METHOD AND APPARATUS FOR MANUFACTURING ARTICLES OF MANUFACTURE FROM SHEETS HAVING A HIGHLY INORGANICALLY FILLED ORGANIC POLYMER MATRIX

Priority: US19920929898 19920811 US19920982383 19921125 US19930095662 19930721
US19930101500 19930803 US19950475383 19950607 US19930157695 19931124
US19930152354 19931119

Family:

Publication number	Publication date	Application number	Application date
US5709913 A	19980120	US19950475383	19950607

Probable Assignee: E KHASHOGGI IND LLC

Assignee(s):^(std): KHASHOGGI E IND

Assignee(s): E KHASHOGGI IND ; E KHASHOGGI IND LLC ; E KHASHOGGI INDUSTRIES

Inventor(s):^(std): ANDERSEN PER JUST ; HODSON SIMON K

International class
(IPC 8-9): B01F3/12 B05B11/00 B28B1/00 B28B1/52 B28B11/00 B28B13/02 B28B13/06 B28B23/00 B28B3/00 B28B3/02 B28B3/12 B28B3/20 B28B3/26 B28B7/42 B28C7/02 B29C43/00 B29C43/02 B29C43/22 B29C43/24 B29C43/34 B29C43/36 B29C43/38 B29C43/46 B29C45/00 B29C49/00 B29C49/06 B29C51/00 B29C51/04 B29C51/10 B29C53/06 B29C55/18 B29C67/24 B29C70/50 B29C71/00 B31B17/00 B32B13/02 B32B27/04 B32B27/20 B32B37/14 B32B5/02 B32B5/16 B32B9/00 B32B9/04 B65D43/16 B65D5/00 B65D65/38 B65D65/46 C04B14/00 C04B14/06 C04B14/10 C04B14/18 C04B14/20 C04B14/24 C04B14/28 C04B14/38 C04B16/02 C04B20/00 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/28 C04B28/00 C04B28/02 C04B38/00 C04B38/02 C04B40/00 C04B41/45 C04B41/61 C08J5/18 C08K13/02 C08L1/28 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 (Advanced/Invention); B05C1/08 B05C3/18 B05C5/02 B29C43/08 B29C49/04 B29C51/08 B29C53/58 B32B37/12 (Advanced/Non-invention)

International class
(IPC 1-7): B32B5/16 B32B9/00 B65D13/00

CPC: Y10S229/931 Y10S428/906 B01F3/1214 B01F2003/125 B05C1/0826 B05C1/0834 B05C3/18 B05C5/0245 B28B1/00 B28B1/52 B28B3/00 B28B3/02 B28B3/126 B28B3/20 B28B3/2645 B28B7/42 B28B11/00 B28B11/003 B28B11/008 B28B13/021 B28B13/06 B28B23/00 B28B23/0081 B28B23/0087 B28C7/02 B29C43/00 B29C43/003 B29C43/02 B29C43/08 B29C43/22 B29C43/222 B29C43/24 B29C43/34 B29C43/36 B29C43/46 B29C45/0013 B29C47/0019 B29C47/0021 B29C47/003 B29C47/0033 B29C49/0005 B29C49/0047 B29C49/04 B29C49/06 B29C49/063 B29C51/002 B29C51/04 B29C51/08 B29C51/082 B29C51/10 B29C53/063 B29C53/58 B29C55/18 B29C67/24 B29C67/242 B29C67/243 B29C70/50 B29C71/0009 B29C2043/3433 B29C2043/3689 B29C2043/463 B29C2043/464 B29C2043/466 B29C2049/4608 B29C2791/006 B29C2795/007 B29K2001/00 B29K2003/00 B29K2005/00 B29K2089/00 B29K2105/12 B29K2105/16 B29L2024/00 B29L2031/608 B29L2031/712 B29L2031/7132 B31D1/005 B32B5/02 B32B9/00 B32B13/02 B32B27/04 B32B27/20 B32B37/00 B32B37/12 B32B37/144 B65D5/00 B65D11/02 B65D43/162 B65D65/38 B65D65/46 B65D65/466 B65D2301/20 B65D2565/385 C04B14/064 C04B16/02 C04B20/002 C04B20/0048 C04B22/04 C04B24/00 C04B24/14 C04B24/38 C04B26/00 C04B26/02 C04B26/026 C04B26/28 C04B26/285 C04B28/00 C04B28/02 C04B38/0006 C04B38/02 C04B40/00 C04B40/0028 C04B40/006 C04B41/009 C04B41/45 C04B41/61 C04B2111/00129 C04B2111/00379 C04B2111/00413 C04B2111/00612 C04B2111/00948 C04B2111/00965 C04B2111/80 C08J5/18 C08J2323/02 C08L1/28 C08L1/286 C08L3/00 C08L3/02 C08L5/02 C08L5/12 C08L5/14 C08L89/06 C08L97/02 E05D1/02 E05Y2900/602 Y10T428/1314 Y10T428/1345 Y10T428/1372 Y10T428/139 Y10T428/1397 Y10T428/15 Y10T428/24446 Y10T428/24579 Y10T428/24694 Y10T428/31971 B29C44/3402 B31B50/32 B31B2105/00 B31B2105/0022 B31B2110/10 B31B2110/20 B31B2110/35

European class: B01F3/12B2 B05B11/00B5 B28B1/00 B28B1/52 B28B11/00E B28B11/00E3 B28B13/02C B28B13/06 B28B23/00 B28B23/00Z B28B23/00Z1 B28B3/00 B28B3/02 B28B3/12C B28B3/20 B28B3/26E B28B7/42 B28C7/02 B29C43/00B B29C43/02 B29C43/22 B29C43/22B B29C43/24 B29C43/34 B29C43/36 B29C43/46 B29C45/00E B29C49/00B B29C49/06B2B B29C51/00B B29C51/04 B29C51/10 B29C53/06B B29C55/18 B29C67/22D1 B29C67/24 B29C67/24C B29C67/24C2 B29C70/50

B29C71/00C B31B1/32 B31B17/00 B31D1/00H1 B32B13/02 B32B27/04 B32B27/20
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C04B26/28 C04B26/28B C04B28/00 C04B28/02 C04B38/00B C04B38/02 C04B40/00
C04B40/00D C04B40/00D7 C04B41/00V C04B41/45 C04B41/61 C08J5/18 C08L1/28
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L29C51/10 L29C53/58 L29C791/00E4 L29C795/00D L29K1/00 L29K105/12 L29K105/16
L29K3/00 L29K5/00 L29K89/00 L29L24/00 L29L31/60C L29L31/712 L29L31/7132
L31B201/26A1A L31B217/08A L32B37/12 L65D301/20 L65D565/38Y7 M04B111/00M14
M04B111/00P30B M04B111/00P35 M04B111/00T6 M04B111/00T66 M04B111/00T70
M04B111/80 M08J323/02 P05D1/02 P05Y900/602

US class: 206/524.7 229/3.5R 229/406 229/5.81 229/931 428/152 428/168 428/182 428/34.5
428/35.5 428/36.4 428/36.9 428/36.92 428/43 428/532 428/906

[Classification Explorer](#)

Cited documents: US882538 A, US591168 A, US5508072, US5506046, US5411639, US5372877,
 US5362777, US5362776, US5360586, US5354424, US5346541, US5340558,
 US5338349, US5320669, US5317119, US5317037, US5316624, US5314754,
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 US4158989, US4157998, US4149550, US4135940, US4133619, US4132555,
 US4124550, US4121402 A, US4117060 A, US4117059 A, US4093690 A, US4089691 A,
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 US3806571 A, US3770859 A, US3759729 A, US3754954 A, US3753749 A, US3745891
 A, US3697366 A, US3683760 A, US3622393 A, US3579366 A, US3558070 A,

US3526172 A, US3520707 A, US3492385 A, US3470005 A, US3468993 A, US3459632 A, US3458329 A, US3432317 A, US3393261 A, US3356779 A, US3306961 A, US3305613 A, US3253978 A, US3215549 A, US3169877 A, US3149986 A, US3117014 A, US3097929 A, US3052595 A, US3042578 A, US3030258 A, US3027266 A, US3007222 A, US3006615 A, US2968561 A, US2959489 A, US2943013 A, US2917778 A, US2837435 A, US2820713 A, US2793957 A, US2754207 A, US2700615 A, US2629667 A, US2549507 A, US2496895 A, US2432971 A, US2307629 A, US2205735 A, US2170102 A, US2045099 A, US1965538 A, US1954117 A, US1932150 A, US1874974 A, US128980 A, US1234692 A, US1223834 A, US109669 A,

Forward Citations: WO09121056, WO06081155, WO0027257, WO0027256, WO0027255, USRE41650, USRE41649, USRE39339, USD785467, US9701583, US9475732, US9425731, US9410361, US9375899, US9302448, US9243444, US9243369, US9174138, US9166521, US9080372, US9027296, US8936164, US8927622, US8915033, US8899318, US8881494, US8701569, US8658714, US8636011, US8627828, US8608018, US8604123, US8541074, US8522694, US8505258, US8501260, US8469036, US8438981, US8438893, US8420179, US8418632, US8393932, US8382888, US8377566, US8268417, US8196527, US8176869, US8152510, US8146516, US8087921, US8003184, US7981338, US7794832, US7643967, US7591496, US7560155, US7553363, US7534501, US7481645, US7464574, US7440874, US7412865, US7374810, US7354639, US7350390, US7263869, US7222511, US7208209, US7152450, US7152449, US7135063, US7070678, US7032426, US6877349, US6805823, US6412325, US6176915, US2015007954, US2011284556, US2011210164, US2011179977, US2011086158, US2011008573, US2010280149, US2010147130, US2010122563, US2009317551, US2009297740, US2009246461, US2009241461, US2009238912, US2009218347, US2009205387, US2009133704, US2009133703, US2009057456, US2008271511, US2008257006, US2008193714, US2008187427, US2008121009, US2008098900, US2008063834, US2008016937, US2007275204, US2007269626, US2007202228, US2007196623, US2007113614, US2007004827, US2006213245, US2006207212, US2006191548, US2006188674, US2006110498, US2006075798, US2006021413, US2006016501, US2005257589, US2005244521, US2005126110, US2005097937, US2005089606, US2005064138, US2005005670, US2004265453, US2004206152, US2004177580, US2004177579, US2003102098, EP2722143, AU2006208301,

Abstract:

Source: US5709913A Compositions, methods, and apparatus for manufacturing sheets having a highly inorganically filled matrix. Suitable inorganically filled mixtures are prepared by mixing together an organic polymer binder, water, one or more aggregate materials, fibers, and optional admixtures in the correct proportions in order to form a sheet which has the desired performance criteria. The inorganically filled mixtures are formed into sheets by first extruding the mixtures and then passing the extruded materials between a set of rollers. The rolled sheets are dried in an accelerated manner to form a substantially hardened sheet, such as by heated rollers and/or a drying chamber. The inorganically filled sheets may have properties substantially similar to sheets presently made from traditional materials like paper, paperboard, polystyrene, plastic, or metal. Such sheets can be cut, rolled, pressed, scored, perforated, folded, and glued to fashion articles from the sheet. They have especial utility in the mass production of containers, particularly food and beverage containers.

74) Family number: 31992330 (US2005126632A)

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Title: BEVERAGE MODIFICATION SYSTEM**Priority:** US20030733826 20031211

Family:	Publication number	Publication date	Application number	Application date
	<u>US2005126632 AA</u>	20050616	US20030733826	20031211

Probable Assignee: BEVERAGES HOLDINGS LLC**Assignee(s):^(std):** SWAINE ROBERT L JR**Assignee(s):** SWAINE ROBERT LJR ; BEVERAGES HOLDINGS LLC ; ELSSEN KATHLEEN M ; FARRELL STEVEN H ; PROCTER AND GAMBLE CO**Inventor(s):^(std):** ELSSEN KATHLEEN M ; FARRELL STEVEN H ; SWAINE ROBERT L JR**Inventor(s):** SWAINE ROBERT LJR ; SWAINE ROBERT LESLIE ; FARRELL STEVEN HANDLING ; ELSSEN KATHLEEN MARY ; SWAINE ROBERT ; FARRELL STEVEN ; ELSSEN KATHLEEN**Agent(s):** THE PROCTER AND GAMBLE COMPANY, INTELLECTUAL PROPERTY DIVISION; PROCTER AND GAMBLE CO INTELLECTUAL PROPERTY DIVISION**International class**
(IPC 8-9): A21D10/02 B65D51/28 (Advanced/Invention);
A21D10/00 B65D51/24 (Core/Invention)**International class**
(IPC 1-7): A21D10/02**CPC:** B65D51/2892 B65D51/2814 B65D51/2821 Y10T137/2934**European class:** B65D51/28B1 B65D51/28B1A B65D51/28B2D**US class:** 137/155[Classification Explorer](#)**Cited documents:** US6372270 BA, US6209718 BA, US6105760 A, US6098795 A, US6092648 A, US6003728 A, US5979647 A, US5950819 A, US5893452 A, US5884759 A, US5433965 A, US5431276 A, US5419429 A, US5373937 A, US5370222 A, US5255812 A, US5038951 A, US5029718 A, US4903865 A, US4785931 A, US4528218 A, US4294351 A, US4221291 A, US4167228 A, US4160602 A, US4103772 A, US3968872 A, US2001018082 AA,**Forward Citations:** WO11143629, WO10084176, WO10025819, WO08124630, WO08107198, WO08094983, WO07147592, US9758283, US8627967, US8522968, US7882976, US7828139, US2016214773, US2015140177, US2010140207, US2009234317, US2009223921, US2008245683, US2008179334, US2008149585, EP2161217,**Abstract:**

Source: US2005126632A A beverage modification system having a container, a cap, a pouch and a pouch opener. A modification composition is contained within the pouch. The cap, containing the pouch, is secured onto the opening of a container containing a fruit-flavored liquid beverage composition. When the pouch opener is activated, the modification composition is released from the pouch and mixes with the liquid beverage composition to modify the color and flavor of the liquid beverage, resulting in a modified beverage composition.

75) Family number: 52429016 (DE102011050569B4)

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Title: FUNKTIONALER FLUESSIGKEITSBEHAELTER**Priority:** DE201110050569 20110523

Family:	Publication number	Publication date	Application number	Application date
	DE102011050569 A1	20121129	DE201110050569	20110523
	DE102011050569 B4	20130418	DE201110050569	20110523

Probable Assignee: BAM BUNDESANSTALT MATFORSCHUNG**Assignee(s):^(std):** BAM BUNDESANSTALT MATFORSCHUNG**Assignee(s):** BAM BUNDESANSTALT F MATERIALFORSCHUNG U PRUEFUNG ; BAM BUNDESANSTALT FUER MATERIALFORSCHUNG UND PRUEFUNG**Inventor(s):^(std):** PRETSCH THORSTEN**International class** [B65D21/08](#) [B65D6/00](#) [B65D65/38](#) [B65D8/04](#) (Advanced/Invention)
(IPC 8-9):**CPC:** [Y02W30/807](#) [B65D1/0207](#) [B65D21/08](#) [B65D2203/10](#)**European class:** [B65D1/02B](#) [B65D21/08](#) [L65D203/10](#)[Classification Explorer](#)

Cited documents: WO05120855 A1, WO04090042 A1, US5145935 A, EP1967537 A1,
DE102009053808 A1
DE102008038813 A1

Abstract:

Source: DE102011050569B4 Fluessigkeitsbehaelter (1, 10, 20, 30, 40) umfassend eine Gefaesswandung 4 aufweisend ein Formgedaechtnispolymer, wobei der Fluessigkeitsbehaelter (1, 10, 20, 30, 40) in einem ersten Schaltzustand des Formgedaechtnispolymers ein erstes Fassungsvermogen aufweist und in einem zweiten Schaltzustand des Formgedaechtnispolymers ein zweites Fassungsvermogen aufweist, wobei das zweite Fassungsvermogen kleiner als das erste Fassungsvermogen ist.

76) Family number: 23027981 (FR1271010A)

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Title: EMBALLAGE OU RECIPIENT FORMANT Gobelet-verseur PACKAGE OR CONTAINER FORMING-POURING CUP (Machine translation)

Priority: FR19570750663 19571031

Family:	Publication number	Publication date	Application number	Application date
	<u>FR1271010 A</u>	19610908	FR19570750663	19571031

Inventor(s):^(std): GACHON ALEXANDRE FREDERIC

International class B65D47/36 (Advanced/Invention);
(IPC 8-9): B65D47/00 (Core/Invention)

International class B65D1/00
(IPC 1-7):

CPC: B65D47/36

European class: B65D47/36

[Classification Explorer](#)

Abstract:

Source: FR1271010A (Claim 1) 1. Suivant une variante une ligne de moindre resistance de forme circulaire, triangulaire ou autre est prevue sur ledit couvercle de maniere a permettre la creation eventuelle d'un orifice reduit d'ecoulement, par arrachage, decoupage ou autre moyen; m. Une ligne de moindre resistance est prevue approximativement a mi-hauteur de la cheminee de facon a permettre eventuellement l'arrachage ou le decoupage de la partie superieure de celle-ci; n. La partie formant fond du gobelet a la forme d'un cone relativement ouvert dont la base constitue la face d'appui du gobelet; o. La matiere synthetique ou analogue constituant le gobelet est transparente ou opaque.

Machine translation: (Claim 1) 1. According to an alternative line of least resistance of circular, triangular or another is planned to said cover so as to allow the possible creation of an opening of reduced flow, by tearing, cutting or other means; m. A line of least resistance is planned approximately mid-height of the chimney of a way eventually allow the uprooting or cutting the upper part thereof; n. The bottom of the cup portion has the form of a relatively open cone whose base constitutes the bearing face of the cup o. The synthetic material or the like constituting the cup is transparent or opaque.

77) Family number: 25365968 (CH256811A)

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Title: DISPOSITIF DE FERMETURE POUR RECIPIENT. CLOSURE FOR CONTAINER.
(Machine translation)

Priority: 19460218

Family:	Publication number	Publication date	Application number	Application date
	<u>CH256811 A</u>	19480915		19470211

Probable Assignee: FRASCARI JOSEPH

Assignee(s):^(std): FRASCARI JOSEPH

Inventor(s):^(std): JOSEPH FRASCARI

Inventor(s): FRASCARI JOSEPH

International class B65D79/00 (Advanced/Invention);
(IPC 8-9): B65D79/00 (Core/Invention)

International class B65D41/10
(IPC 1-7):

CPC: B65D79/005

European class: B65D79/00B

[Classification Explorer](#)

Forward Citations: WO9744264, US6095357,

Abstract:

Source: CH256811A (Claim 1) REVENDEICATION: Dispositif de fermeture eiane. he, elasti- que et de surete pour des recipients quelconques et notamment pour des bouteilles destinees a contenir des produits fermentesciblestels que les jus.

Machine translation: (Claim 1) CLAIM: Closure eiane. he, and that Elasti-tart for any particular containers for bottles for products that fermentesciblestels juice.

- **search:** SS8 TAC=(bottle or (beverage container)) and FT=(((squeeze* or juic*) W3 fruit*) W5 insert*) and neck) and IC=B65D and PD<20140606 (Results 2)
- **List:** SS8 1-50 (TAC=(bottle or (beverage container)) and FT=(((squeeze* or juic*) W3 fruit*) W5 insert*) and neck) and IC=B65D and PD<20140606) (Results 2)

0) ZA9303887A – INSERT FOR DRINKS CONTAINER

1) Family number: 30960413 (ZA9303887A)

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Title: INSERT FOR DRINKS CONTAINER

Priority: GB19920011814 19920604 GB19920013285 19920623 GB19920014793 19920711
GB19920015544 19920722 GB19920022745 19921029 GB19920022805 19921030
WO1993GB01159 19930601 GB19930010518 19930521 GB19930002449 19930208
WO1993GB01060 19930521

Family:

Publication number	Publication date	Application number	Application date
<u>AU199340836 A1</u>	19931230	AU19930040836	19930521
<u>AU199343392 A1</u>	19931230	AU19930043392	19930601
<u>CA2137262 AA</u>	19941202	CA19932137262	19930521
<u>CN1081994 A</u>	19940216	CN19931007250	19930621
<u>EP0642447 A1</u>	19950315	EP19930910265	19930521
<u>EP0642448 A1</u>	19950315	EP19930913265	19930601
<u>FI945709 A</u>	19950202	FI19940005709	19941202
<u>FI945709 A0</u>	19941202	FI19940005709	19941202
<u>GB2268727 A1</u>	19940119	GB19930010518	19930521
<u>GB2268727 B2</u>	19960313	GB19930010518	19930521
GB9211814 A0	19920715	GB19920011814	19920604
GB9213285 A0	19920805	GB19920013285	19920623
GB9214793 A0	19920826	GB19920014793	19920711
GB9215544 A0	19920902	GB19920015544	19920722
GB9222745 A0	19921209	GB19920022745	19921029
GB9222805 A0	19921209	GB19920022805	19921030
GB9302449 A0	19930324	GB19930002449	19930208
GB9310518 A0	19930707	GB19930010518	19930521
<u>IL105936 A0</u>	19931020	IL19930105936	19930607
<u>NO944652 A</u>	19950119	NO19940004652	19941202
<u>NO944652 A0</u>	19941202	NO19940004652	19941202
<u>WO9324382 A1</u>	19931209	WO1993GB01060	19930521
<u>WO9324383 A1</u>	19931209	WO1993GB01061	19930524
<u>WO9324384 A1</u>	19931209	WO1993GB01159	19930601
<u>ZA9303887 A</u>	19940527	ZA19930003887	19930603

Probable Assignee: COSTELLO EDWARD PETER

Assignee(s):^(std): COLEMAN CLIVE SCOTT ; COSTELLO EDWARD PETER ; COSTELLO EDWARD ROGER ; CRESSFIELD LIMITED ; DUNN ALEXANDER RICHARD ; SCOTTISH AND NEWCASTLE PLC ; PENNELL DAVID WILSON ; KERSHAW PETER FRANK ; WRAGG DAVID NEIL ; EDWARD ROGER COSTELLO ; PETER FRANK KERSHAW ; TRUETURN LIMITED

Inventor(s):^(std): COLEMAN CLIVE S ; COSTELLO EDWARD P ; COSTELLO EDWARD PETER ; DUNN ALEXANDER R ; KERSHAW PETER F ; PENNELL DAVID W ; WRAGG DAVID N ; WRAGG DAVID NEIL ; PENNELL DAVID WILSON ; KERSHAW PETER FRANK ; DUNN ALEXANDER RICHARD ; COSTELLO EDWARD ROGER ; COLEMAN CLIVE SCOTT

Inventor(s): CLIVE SCOTT COLEMAN ; ALEXANDER RICHARD DUNN ; DAVID WILSON PENNELL ; DAVID NEIL WRAGG ; EDWARD ROGER COSTELLO ; PETER FRANK KERSHAW

Agent(s): WRAYS; FETHERSTONHAUGH AND CO

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LI LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US

International class B65D6/16 B65D79/00 B65D85/72 B65D85/73 (Advanced/Invention);
(IPC 8-9): B65D79/00 B65D85/72 (Core/Invention);
B65B B65D (Subclass/Invention)

International class B65B B65D B65D25/02 B65D6/16 B65D79/00 B65D85/72
(IPC 1-7):

CPC: B65D85/73

European class: B65D79/00C B65D85/73

[Classification Explorer](#)

Cited documents: WO9200896 A1, WO9107326 A1,

Forward Citations: WO9856679, WO9856678, WO9703890, WO9703890, WO9529104, WO9525049, WO9422730, WO9414679, WO08012499, WO07081210, WO07081199, US7832184, US7806258, US6620444, US6039090, US5667832, KR101414776, GB2299978, GB2299978, GB2286812, GB2284590, GB2283225, GB2283225, GB2282792, GB2273917, GB2273917, EP0965536, EP0673855, EA014514, AU747223,

Abstract:

A beverage frothing device for a beverage container for production of a foamy dispersion of bubbles or "head" within a liquid packaged within sealed, non-resealable cans or other containers. The beverage frothing device has a fluid chamber formed by two generally hollow telescopically slidable members (301, 302) which have means for securing (308, 317) the two members (301, 302) in a telescopically compressed position. Means (314) are also provided for fluid communication between the fluid chamber and the exterior of the device in response to a predetermined reduction in the pressure external to the device. A cage arrangement with a plurality of arms (305) is disposed around the two members (301, 302) such that the arms (305) curve away from the members (301, 302) and exert a force against the insides of the beverage container when the two members (301, 302) are telescopically compressed thereby holding the device in place in the beverage container.

0) FR2792616A – COMPRESSING PLUG FOR USED PLASTIC BOTTLES HAS C...

2) Family number: 13435164 (FR2792616A)

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Title: COMPRESSING PLUG FOR USED PLASTIC BOTTLES HAS CAP ON PLUG FITTED INTO BOTTLE NECK TO ALLOW CRUSHING

Priority: FR19990005158 19990423

Family:	Publication number	Publication date	Application number	Application date
	FR2792616 A1	20001027	FR19990005158	19990423

Probable Assignee: HILY JEAN ALAIN

Assignee(s):^(std): HILY JEAN ALAIN

Inventor(s):^(std): HILY JEAN ALAIN

International class B29B17/00 B30B9/32 B65D39/00 B65D51/16 (Advanced/Invention);
(IPC 8-9): B29B17/00 B30B9/32 B65D39/00 B65D51/16 (Core/Invention)

International class B65D1/02 B65D21/08 B65D39/04
(IPC 1-7):

CPC: Y02W30/62 B65D51/1611 B29B17/0052 B29B2017/0063 B30B9/321 B65D39/00 B65D39/0023

European class: B29B17/00D6B B30B9/32B B65D39/00 B65D39/00F3 B65D51/16C1 L29B17/00D6B2

[Classification Explorer](#)

Forward Citations: FR2912342,

Abstract:

The compressing plug (1) for used plastic bottles has a cap (5) of large rounded shape (5). The plug is made of wood, metal or moulded plastics. There are four ribs (4) on the underside of the cap to space it from the bottle neck and allow the escape of air. The claims include a method of crushing a bottle

- **search:** SS9 TAC=(bottle or (beverage container)) and FT=((fruit* W5 insert*) and neck and (embossment or stopper or vented* or surfaces or projections)) and IC=B65D and PD<20140606 (Results 4)
- **List:** SS9 1-50 (TAC=(bottle or (beverage container)) and FT=((fruit* W5 insert*) and neck and (embossment or stopper or vented* or surfaces or projections)) and IC=B65D and PD<20140606) (Results 4)

0) ZA9303887A – INSERT FOR DRINKS CONTAINER

1) Family number: 30960413 (ZA9303887A)

© PatBase

Title: INSERT FOR DRINKS CONTAINER

Priority: GB19920011814 19920604 GB19920013285 19920623 GB19920014793 19920711
GB19920015544 19920722 GB19920022745 19921029 GB19920022805 19921030
WO1993GB01159 19930601 GB19930010518 19930521 GB19930002449 19930208
WO1993GB01060 19930521

Family:

Publication number	Publication date	Application number	Application date
<u>AU199340836 A1</u>	19931230	AU19930040836	19930521
<u>AU199343392 A1</u>	19931230	AU19930043392	19930601
<u>CA2137262 AA</u>	19941202	CA19932137262	19930521
<u>CN1081994 A</u>	19940216	CN19931007250	19930621
<u>EP0642447 A1</u>	19950315	EP19930910265	19930521
<u>EP0642448 A1</u>	19950315	EP19930913265	19930601
<u>FI945709 A</u>	19950202	FI19940005709	19941202
<u>FI945709 A0</u>	19941202	FI19940005709	19941202
<u>GB2268727 A1</u>	19940119	GB19930010518	19930521
<u>GB2268727 B2</u>	19960313	GB19930010518	19930521
GB9211814 A0	19920715	GB19920011814	19920604
GB9213285 A0	19920805	GB19920013285	19920623
GB9214793 A0	19920826	GB19920014793	19920711
GB9215544 A0	19920902	GB19920015544	19920722
GB9222745 A0	19921209	GB19920022745	19921029
GB9222805 A0	19921209	GB19920022805	19921030
GB9302449 A0	19930324	GB19930002449	19930208
GB9310518 A0	19930707	GB19930010518	19930521
<u>IL105936 A0</u>	19931020	IL19930105936	19930607
<u>NO944652 A</u>	19950119	NO19940004652	19941202
<u>NO944652 A0</u>	19941202	NO19940004652	19941202
<u>WO9324382 A1</u>	19931209	WO1993GB01060	19930521
<u>WO9324383 A1</u>	19931209	WO1993GB01061	19930524
<u>WO9324384 A1</u>	19931209	WO1993GB01159	19930601
<u>ZA9303887 A</u>	19940527	ZA19930003887	19930603

Probable Assignee: COSTELLO EDWARD PETER

Assignee(s):^(std): COLEMAN CLIVE SCOTT ; COSTELLO EDWARD PETER ; COSTELLO EDWARD ROGER ; CRESSFIELD LIMITED ; DUNN ALEXANDER RICHARD ; SCOTTISH AND NEWCASTLE PLC ; PENNELL DAVID WILSON ; KERSHAW PETER FRANK ; WRAGG DAVID NEIL ; EDWARD ROGER COSTELLO ; PETER FRANK KERSHAW ; TRUETURN LIMITED

Inventor(s):^(std): COLEMAN CLIVE S ; COSTELLO EDWARD P ; COSTELLO EDWARD PETER ; DUNN ALEXANDER R ; KERSHAW PETER F ; PENNELL DAVID W ; WRAGG DAVID N ; WRAGG DAVID NEIL ; PENNELL DAVID WILSON ; KERSHAW PETER FRANK ; DUNN ALEXANDER RICHARD ; COSTELLO EDWARD ROGER ; COLEMAN CLIVE SCOTT

Inventor(s): CLIVE SCOTT COLEMAN ; ALEXANDER RICHARD DUNN ; DAVID WILSON PENNELL ; DAVID NEIL WRAGG ; EDWARD ROGER COSTELLO ; PETER FRANK KERSHAW

Agent(s): WRAYS; FETHERSTONHAUGH AND CO

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LI LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US

International class B65D6/16 B65D79/00 B65D85/72 B65D85/73 (Advanced/Invention);
(IPC 8-9): B65D79/00 B65D85/72 (Core/Invention);
B65B B65D (Subclass/Invention)

International class B65B B65D B65D25/02 B65D6/16 B65D79/00 B65D85/72
(IPC 1-7):

CPC: B65D85/73

European class: B65D79/00C B65D85/73

[Classification Explorer](#)

Cited documents: WO9200896 A1, WO9107326 A1,

Forward Citations: WO9856679, WO9856678, WO9703890, WO9703890, WO9529104, WO9525049, WO9422730, WO9414679, WO08012499, WO07081210, WO07081199, US7832184, US7806258, US6620444, US6039090, US5667832, KR101414776, GB2299978, GB2299978, GB2286812, GB2284590, GB2283225, GB2283225, GB2282792, GB2273917, GB2273917, EP0965536, EP0673855, EA014514, AU747223,

Abstract:

A beverage frothing device for a beverage container for production of a foamy dispersion of bubbles or "head" within a liquid packaged within sealed, non-resealable cans or other containers. The beverage frothing device has a fluid chamber formed by two generally hollow telescopically slidable members (301, 302) which have means for securing (308, 317) the two members (301, 302) in a telescopically compressed position. Means (314) are also provided for fluid communication between the fluid chamber and the exterior of the device in response to a predetermined reduction in the pressure external to the device. A cage arrangement with a plurality of arms (305) is disposed around the two members (301, 302) such that the arms (305) curve away from the members (301, 302) and exert a force against the insides of the beverage container when the two members (301, 302) are telescopically compressed thereby holding the device in place in the beverage container.

0) GB792301A – IMPROVEMENTS IN POURING AND DROP-DISPENSING ARR...

2) Family number: 19669065 (GB792301A)

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Title: Improvements in pouring and drop-dispensing arrangements

Priority: GB19540012788 19540503

Family:	Publication number	Publication date	Application number	Application date
	GB792301 A	19580326	GB19540012788	19540503

Probable Assignee: IMRE GOTH

Assignee(s):^(std): IMRE GOTH

International class [B65D47/18](#) [B65D47/40](#) (Advanced/Invention);
(IPC 8-9): [B65D47/00](#) [B65D47/06](#) (Core/Invention)

International class [A61J1/00](#)
(IPC 1-7):

CPC: [B65D47/18](#) [B65D47/40](#)

European class: [B65D47/18](#) [B65D47/40](#)

[Classification Explorer](#)

Forward Citations: GB2255955,

Abstract:

Source: GB792301A 792,301. Dripless pourers; drop dispensers. GOTH, I. April 29, 1955 [May 3, 1954], No. 12788/54. Classes 66 and 125(3). In pouring devices of the kind described in Specifications 729,911, 736,347 and 757,599 having a capillary recess 1 adjacent to pouring surfaces 2, 4 meeting at 3, the surface 4 projecting upwardly in all pouring positions of the container, the surfaces are provided with additional means for producing capillary suction, e.g., step-like shoulders 5, 5a or a rough surface. The recess 1 may also have shoulders 5b. The surfaces may be roughened by sandblasting. Figs. 6 and 8 show spouts of teapots c. with additional capillary means 5. The invention may be embodied in an insert fitted to the mouth of the container and engaging inside or outside the mouth, or embracing the mouth at 26, 27 as shown in Fig. 15. Fig. 16 shows a shaker insert with an outlet pipe 28 and in which partially formed drops are withdrawn by the recess 1 into an annular space above a horizontal partition 29 on righting the container. Air inlet tubes may be provided in addition to the orifices for the outlet of liquid.

0) US2359298A – PACKAGE, CONTAINER, AND BLANK THEREFOR

3) Family number: 22430588 (US2359298A)

© PatBase

Title: PACKAGE, CONTAINER, AND BLANK THEREFOR

Priority: US19380240168 19381112

Family:	Publication number	Publication date	Application number	Application date
	<u>US2359298 A</u>	19441003	US19380240168	19381112

Probable Assignee: PRESIDENT AND DIRECTORS OF

Assignee(s):^(std): PRESIDENT AND DIRECTORS OF ; PRESIDENT AND DIRECTORS OF THE

Assignee(s): PRESIDENT AND DIRECTORS OF THE MANHATTAN COMPANY ; PRESIDENT AND DIRECTORS OF MANHATTAN CO

Inventor(s):^(std): BROGDEN ERNEST M

International class B65D71/68 (Advanced/Invention);
(IPC 8-9): B65D71/00 (Core/Invention)

International class B65D71/00 B65D75/08
(IPC 1-7):

CPC: B65D71/0081 B65D2571/00141 B65D2571/0029 B65D2571/00462 B65D2571/00493
B65D2571/00543 B65D2571/00555 B65D2571/00666 B65D2571/00716

European class: B65D71/00B5A L65D571/00Y1A1 L65D571/00Y2A4 L65D571/00Y4B1 L65D571/00Y4C
L65D571/00Y4S1 L65D571/00Y5 L65D571/00Y6A2 L65D571/00Y7A

US class: 206/142 206/168 206/194 206/197 206/428 206/526 229/117.25 229/122.23 53/48.1
53/48.5

[Classification Explorer](#)

Forward Citations: US4860944, US4050216, US3353709, US3175684, US3005654, US2982400, US2955739, US2918206, US2899123, US2899049, US2872036, US2853224, US2842304, US2840233, US2811250, US2810476, US2800268, US2797856, US2723027, US2705556, US2687247, US2678770, US2662684, US2654474, US2003000858,

Abstract:

Source: US2359298A 1. A display and carrying package for consumer units oi' merchandise comprising a container formed of stiff Hexible sheet material including two tubes overlapped at the top and bottom of the container, joined at the bottom and marginally spaced between the top and bottom to form corner openings; and merchandise coniiined in the container including columnar articles spanning the comer openings and extending beyond the top, said tubes being relatively movable at the top to vary the width oi the corner openings for insertion of the initial articles, and the margins of at least one corner opening being yleldeble and resilient for insertion and removal of the final article, said tubes being held in relatively nxed position by the merchandise when the container is fully packed.

4) Family number: 25007 (FR2051608A)

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Title: VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN VON FLASCHEN FUER SPIRITUOSEN MIT EINGELEGTER FRUCHT**Priority:** DE19691934778 19690709

Family:	Publication number	Publication date	Application number	Application date
	<u>AT302838 B</u>	19721025	AT19690007350	19690730
	<u>CH494168 A</u>	19700731	CH19690012702	19690821
	<u>DE1934778 A1</u>	19710204	DE19691934778	19690709
	DE1934778 B2	19721221	DE19691934778	19690709
	<u>DE1934778 C3</u>	19730726	DE19691934778	19690709
	<u>FR2051608 A1</u>	19710409	FR19690030045	19690903
	<u>RO61636 P</u>	19770115	RO19690060821	19690818

Probable Assignee: RAUM GEORG FR**Assignee(s):**^(std) GOERG FR RAUM ; RAUM GEORG FR ; RAUM GEORG FRIEDRICH**Inventor(s):**^(std) KERSCHER LUDWIG ; KERSCHER MARIANNE ; LUDWIG KERSCHER ; MARIANNE KERSCHER ; MUGGENTHALER KERSCHER GEB ; KERSCHER GEB MUGGENTHALER MARI**Inventor(s):** KERSCHER GEB MUGGENTHALER MARIANNE ; 8490 CHAM**International class**
(IPC 8-9): B24B19/00 B65D13/02 (Advanced/Invention);
B24B19/00 B65D13/00 (Core/Invention)**International class**
(IPC 1-7): B65B5/00 B65D1/06 B65D23/00 C03B33/06 C03B9/32**CPC:** B24B19/006 B65D13/02**European class:** B24B19/00H B65D13/02[Classification Explorer](#)**Abstract:**

Source: FR2051608A 1. – Procédé pour la fabrication de bouteilles pour spiritueux contenant un fruit, ou un ou plusieurs objets solides de dimensions plus grandes que l'ouverture du goulot de la bouteille, caractérise en ce qu'on repousse de bas en haut, contre un anneau, au moyen d'un piston pneumatique, une bouteille normale, de préférence à fond épais, renversée c.a.d. le fond en haut, de manière que l'anneau s'applique sur le bord externe du fond de la bouteille qui est maintenu dans un plan horizontal, qu'on introduit par le haut à travers l'anneau une fraise à diamants au moyen de laquelle on perce dans le fond de la bouteille une ouverture concentrique conique, dont le diamètre est au moins égal à celui du fruit devant être introduit qu'on utilise une tête de fraisage conique à diamants qui comporte des nervures longitudinales portant les diamants et entre lesquelles se trouvent des orifices pour la sortie de l'eau de refroidissement admise par le haut, de préférence au centre, qu'un godet, à faces latérales rugueuses de conicité correspondant à celle de l'ouverture, est encastré dans l'ouverture après l'introduction du fruit et l'application d'un liant sur les faces latérales rugueuses, godet qui est enfoncé par rotation et pression. 1. – Process for the manufacture of bottles for containing fruit spirits, or one or more solid objects larger than the opening of the neck of the bottle, characterized in that pushes upwardly against a ring, the means of a pneumatic piston, a normal bottle, preferably a thick bottom, upside down ie the bottom up, so that the ring is applied to the outer edge of the bottom of the bottle which is kept in a horizontal plane, is introduced from above through the ring was a diamond cutter through which is drilled in the bottom of the bottle a tapered concentric opening whose diameter is at least equal to that of the fruit to be introduced that using a milling head has a conical diamond which has longitudinal ribs carrying the diamond and between which there are openings for the exit of the cooling water admitted at the top, preferably at the center, that a bucket with lateral sides rough taper matching that of the opening, is flush with the opening of the fruit after the introduction and application of a binder to the roughened lateral sides, which is pressed by bucket rotation and pressure.