

1) Family number: 66583675 (US2019144189 AA)

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Title: CLOSURE ASSEMBLY AND CONTAINER PROVIDED WITH SAID CLOSURE ASSEMBLY

Abstract: Closure assembly comprising a spout (1) and a cap (2) including a tamper-evident ring (3). The spout (1) has a neck (14) around a product passage (15) and a wall (10). The wall is spaced from the neck (14) to form an inner space (11) which is open from above to receive the tamper-evident ring (3). The tamper-evident ring (3) is integrally moulded via breakable bridges (34) to the cap and comprises a base portion (32) with at least one snap portion (33) at abase portion outer face (32a). The wall (10) of the spout (1) comprises at least one window (16), wherein the at least one snap portion (33) fits inside the window (16) to snap the tamper-evident ring (3) to the spout (1) when the tamper-evident ring (3) is inserted in the inner space (11).

Classifications:

International (IPC 8-9): B65D41/34 B65D55/02 B65D55/08 B65D75/58

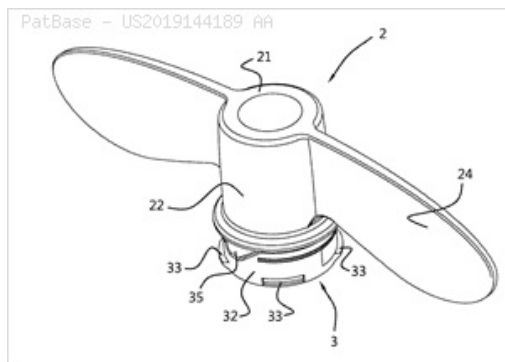
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CPC: B65D2251/023 B65D2251/065 B65D2401/15 B65D2401/20

B65D2401/25 B65D2401/45 B65D2401/50 B65D2401/55

B65D41/3428 B65D75/5883

US: 383/80

**Family:**

Publication number	Publication date	Application number	Application date
BR112018015507 A2	20181218	BR20181115507	20170203
CN108602603 A	20180928	CN201780009599	20170203
CN108602603 B	20200306	CN201780009599	20170203
CN111498298 A	20200807	CN202010181574	20170203
DE602017008916 D1	20191212	DE201760008916T	20170203
EP3411307 A1	20181212	EP20170706324	20170203
EP3411307 B1	20191120	EP20170706324	20170203
EP3628608 A1	20200401	EP20190209474	20170203
ES2770606 T3	20200702	ES20170706324T	20170203
IN201827027045 A	20201002	IN201827027045	20180719
NL2016212 B1	20170811	NL20162016212	20160203
PL3411307 T3	20200601	PL20170706324T	20170203
US2019144189 AA	20190516	US20170074875	20170203
WO17135824 A1	20170810	WO2017NL50072	20170203

Priority:

NL20162016212 20160203 WO2017NL50072 20170203 CN201780009599 20170203
EP20170706324 20170203 WO2017NL50072 20170223

Probable Assignee: SCHOLLE IPN IP BV

Assignee(s): (std): SCHOLLE IPN IP BV

Inventor(s): (std): MOLEN PETER JAN VAN D ; PETER JAN VAN D MOLEN

Agent(s): EP AND C; GUSTAVO ADOLFO GONZALEZ PECES; HOLLAAR C; RGTH RICHTER GERBAULET
THIELEMANN HOFMANN PATENTANWALTE PARTGMBB

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

2) Family number: 60268720 (US2018186521 AA)

© PatBase

Title: CONTAINER

Abstract: A container includes a body and a lid of plastics construction. The body defines a chamber having an open mouth with a central axis, and the lid is intended to cover the open mouth. The body and lid are configured to cooperate with one another to provide snap-fitting engagement therebetween, in order to releasably attach the lid to the body. The body has an external face, and the lid includes an internal face intended to overlap at least a portion of the external face of the body when the lid is releasably attached thereto and the lid is configured for sealing engagement with the body.

Classifications:

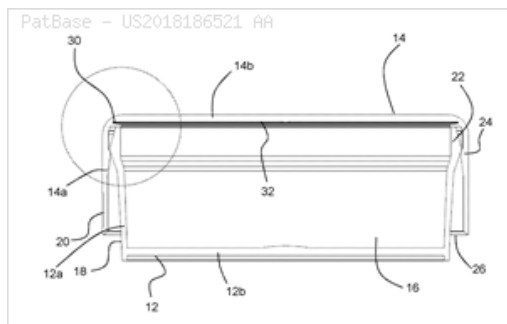
International (IPC 8-9): B65D41/04 B65D41/16 B65D41/46 B65D41/48 B65D43/02 B65D43/16 B65D43/22 B65D45/00 B65D51/20 B65D53/02

CPC: B65D2251/0018 B65D2251/0068 B65D2251/0093

B65D2251/04 B65D2543/00092 B65D2543/00296 B65D2543/00629

B65D2543/00685 B65D2543/0074 B65D2543/00796 B65D2543/0099

B65D41/04 B65D41/16 B65D41/46 B65D41/465 B65D41/48
B65D41/485 B65D43/02 B65D43/0212 B65D43/0235 B65D43/0256
B65D43/16 B65D43/162 B65D43/22 B65D45/00 B65D51/20
B65D53/02
US: 1/1 220/258.3



Family:

Publication number	Publication date	Application number	Application date
EP3317202 A1	20180509	EP20160736583	20160630
EP3317203 A1	20180509	EP20160736584	20160630
GB201511426 A0	20150812	GB20150011426	20150630
GB201611394 A0	20160817	GB20160011394	20160630
GB2540050 A1	20170104	GB20160011394	20160630
GB2540050 B2	20190828	GB20160011394	20160630
GB201611396 A0	20160817	GB20160011396	20160630
GB2540051 A1	20170104	GB20160011396	20160630
GB2540051 B2	20190828	GB20160011396	20160630
IN201817002766 A	20180427	IN201817002766	20180123
US2018312308 AA	20181101	US20160740374	20160630
US2018186521 AA	20180705	US20160740404	20160630
WO17001854 A1	20170105	WO2016GB51970	20160630
WO17001855 A1	20170105	WO2016GB51972	20160630

Priority:

GB20150011426 20150630 WO2016GB51970 20160630 WO2016GB51972 20160630

Probable Assignee: DUBOIS LTD

Assignee(s): (std): DUBOIS LTD

Inventor(s): (std): DAVID WILLIAMS ; HEIN JOHN ; JOHN HEIN ; ROBERT TIPPER ; TIPPER ROBERT ; WILLIAMS DAVID

Agent(s): MCGEOUGH GEMMA; MCGEOUGH GEMMA ANN

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

3) Family number: 18162751 (US5131549 A)

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Title: TAMPER-EVIDENT CLOSURE FOR SPIRITS BOTTLES AND THE LIKE

Abstract: A tamper-evident closure for a spirits bottle and the like, which can be easily and rapidly applied to the bottle during the bottling step and affords improved pouring of the bottle contents in use, comprises a cap having an inside threadway, a cylindrical sleeve coaxial with the cap, having an upper edge, an outside threadway matching the inside threadway of the cap, an inside spline formation and a lower edge, as well as a tamper-proofing seal formed between the cap and the sleeve, the sleeve being adapted to arrange itself with the upper and lower edges facing respective shoulders formed on the bottle, and with the inside spline formation engaged with a corresponding spline formation formed on the bottle.

Classifications:

International (IPC 8-9): B65D41/04 B65D41/08 B65D41/34 B65D41/38

International (IPC 1-7): B65D B65D41/08 B65D41/20 B65D41/32 B65D41/34 B65D41/38 B65D41/8 B65D50/00

CPC: B65D41/3419 B65D41/38

US: 215/252 215/343 215/356

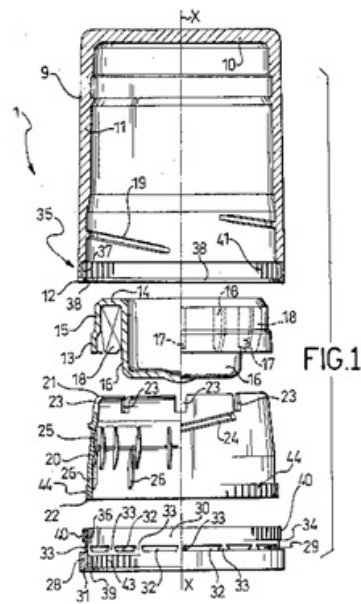


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AR247526 A1	19950131	AR19900318243	19901030
AT97874 E	19931215	AT19900119757T	19901015
BRPI9005667 A	19910917	BR1990PI05667	19901108
DE69004936 D1	19940113	DE19906004936T	19901015
DE69004936 T2	19940324	DE19906004936T	19901015
EP0427009 A1	19910515	EP19900119757	19901015
EP0427009 B1	19931201	EP19900119757	19901015
ES2047800 T3	19940301	ES19900119757T	19901015
IE904032 A1	19910522	IE19900004032	19901108
IT1236687 A	19930326	IT19890022330	19891109
IT8922330 A0	19891109	IT19890022330	19891109
PT8477 U	19920930	PT19920008477U	19920415
PT8477 Y	19950809	PT19920008477U	19920415
US5131549 A	19920721	US19900606548	19901031

Priority:

IT19890022330 19891109 EP19900119757 19901015

Probable Assignee: GUALA SPA**Assignee(s):** (std): GUALA S P A**Assignee(s):** GUALA S P A ALESSANDRIA IT**Inventor(s):** (std): BATTEGAZZORE PIERO**Inventor(s):** BATTEGAZZORE PIERO I 15100 ALESSANDRIA IT ; PIERO BATTEGAZZORE**Designated states:** AT BE CH DE DK ES FR GB GR IT LI LU NL SE**4) Family number: 79219759 (WO20111939 A1)**

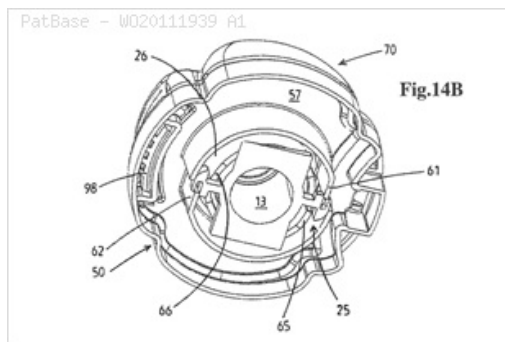
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Title: A SPOUTED POUCH PROVIDED WITH A CLOSURE DEVICE

Abstract: A spouted pouch has a spout (10) having an exterior surface provided with a first screw thread (21). The spout body is provided with a rotation preventing boss (25, 26). A closure device (40) secured on the neck and comprises: - a socket (50; 150) configured to be screwed onto the neck (12) of the spout (10), - a user openable or user removable cap (70; 170) supported on the socket in a manner so as to be openable or removable relative to the socket (50; 150). The socket has a bore (52) with a second screw thread (56) that cooperates with the first screw thread upon screwing the socket onto the neck. An upper section of the exterior surface of the socket body defines a discharge portion (53). At a lower end the socket body is provided with a permanent snap lock anti-back off structure (60) comprising a portion (61, 63; 161, 162) that is configured to flex over the rotation preventing boss (25, 26) upon screwing of the socket onto the neck and then snap behind said boss. This structure is configured to remain intact upon a user opening or removing the cap for the first time. The cap (70; 170), in a closed position thereof, covers the discharge portion (53) and in an opened or removed position clears the discharge portion (53).

Classifications:**International (IPC 8-9):** B65D41/34 B65D47/08 B65D75/58**CPC:** B65D2401/30 B65D41/3409 B65D47/0809 B65D47/2031

B65D75/5883



Family:

Publication number	Publication date	Application number	Application date
NL2022097 B1	20200626	NL20182022097	20181129
WO20111939 A1	20200604	WO2019NL50768	20191121

Priority:

NL20182022097 20181129

Probable Assignee: SCHOLLE IPN IP BV

Assignee(s): (std): SCHOLLE IPN IP BV

Inventor(s): (std): FIERE JEROEN PIETER ; JEROEN PIETER FIERE

Agent(s): BROOKHUIS H J 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 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 JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 68723492 (US2019193900 AA)

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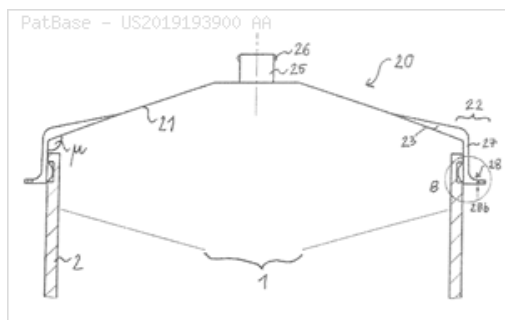
Title: SNAP CLOSURE WITH TAMPER-EVIDENT SAFETY MEANS

Abstract: A cover operates with a bistable snap-fit mechanism for positioning on a closable opening of a container or on another element to be closed by the cover. The cover and/or a container wall region has fitted thereon a tamper-evident sealing element to be removed when opening the container for the first time, which, prior to being removed, blocks deformation of the front wall necessary for changeover between the two bistable states and/or prevents an expansion portion necessary for the snap-fit mechanism, from bringing about alteration to the outer circumference of the cover necessary for deformation of the front wall of the cover between the two bistable states. As an alternative, or in addition, it is also possible for a handle member, necessary for pulling off the cover, to be configured such that it can only be used once the tamper-evident sealing has been successfully removed.

Classifications:

International (IPC 8-9): B65D43/02 B65D43/04 B65D43/08 B65D43/10 B65D45/32 B65D55/02 B65D55/06

CPC: B65D2401/15 B65D2401/25 B65D2543/00092 B65D2543/00296 B65D2543/00351 B65D2543/0037 B65D2543/00407 B65D2543/0049 B65D2543/00527 B65D2543/00537 B65D2543/00546 B65D2543/00851 B65D2543/00972 B65D43/0235 B65D43/0237



Family:

Publication number	Publication date	Application number	Application date
CN109863091 A	20190607	CN201780052424	20170823
DE102016115950 A1	20180301	DE201610115950	20160826
DE112017004263 A5	20190516	DE201711004263T	20170823
EP3504129 A1	20190703	EP20170784834	20170823
JP2019524589 T2	20190905	JP20190531529T	20170823
US2019193900 AA	20190627	US20170327461	20170823
WO18036592 A1	20180301	WO2017DE100709	20170823

Priority:

DE201610115950 20160826 WO2017DE100709 20170823

Probable Assignee: KITTMANN ROLAND

Assignee(s): (std): KITTMANN ROLAND ; YANG GENLIN

Inventor(s): (std): KITTMANN ROLAND

Agent(s): STREHL SCHUEBEL HOPF AND PARTNER; STREHL SCHUEBEL HOPF AND PARTNER MBB

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 JO 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

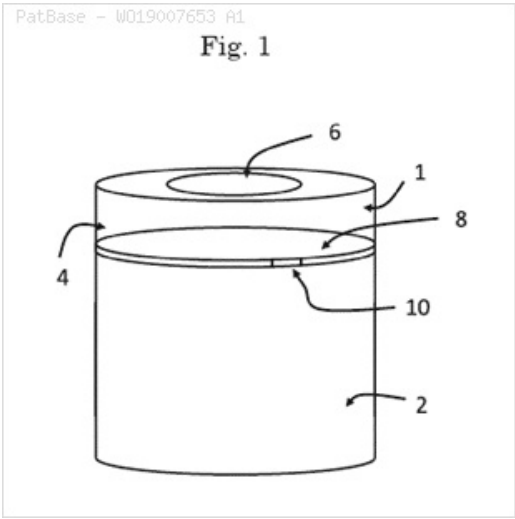
Inventor(s): (std): WELLMAN CRAIG ; WELLMAN CRAIG J ; WELLMAN CRAIG JOHN
Inventor(s): CRAIG WELLMAN
Agent(s): GRIFFITH HACK; LADAS AND PARRY LLP
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC 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

8) Family number: 72769002 (WO19007653 A1) © PatBase

Title: TAMPER-EVIDENT CLOSURE AND CONTAINER PROVIDED WITH THE SAME

Abstract: The invention relates to a tamper-evident closure (1) for a container (2), comprising a circumferential body (4) and a lid (6), wherein the circumferential body (4) is attachable to the container (2), and the lid (6) is arranged for providing a closable entrance to the container (2) through the circumferential body (4), wherein the closure (1) includes a skirt (8), which is connected to the circumferential body (4) and is arranged for extending beyond an externally extending rim (18) of the container (2), wherein the skirt (8) includes a portion having, when mounted to the container (2), an inner circumference that is smaller than an outer circumference of the rim (18), wherein the skirt (8) includes at least one tamper-indicating frangible connection (10), wherein the closure (1) further comprises means for increasing the inner circumference of the skirt (8) when the closure (1) is moved in a direction to remove it from the container (2), and wherein the skirt (8) is configured to deform when its inner circumference is increased such that at least one tamper-indicating frangible connection (10) breaks or tears.

Classifications:
International (IPC 8-9): B65D41/34 B65D41/36 B65D41/48 B65D47/08
CPC: B65D2401/35 B65D41/3428 B65D41/36 B65D41/48 B65D47/08



Family:

Publication number	Publication date	Application number	Application date
CN110831867 A	20200221	CN201880044683	20180613
EP3649055 A1	20200513	EP20180729454	20180613
IN202017002724 A	20200221	IN202017002724	20200121
WO19007653 A1	20190110	WO2018EP65644	20180613

Priority:
EP20170180095 20170706 WO2018EP65644 20180613

Probable Assignee: FRIESLANDCAMPINA NEDERLAND BV

Assignee(s): (std): FRIESLANDCAMPINA NEDERLAND BV
Assignee(s): FRIESLANDCAMPINA NL BV

Inventor(s): (std): KAYSERILIOGLU ILKAY ; KNAPEN FRANSISCUS JOHANNES ; VEREIJKEN JOHANNES MARTINUS PETRUS LEONARDUS

Agent(s): FRIESLANDCAMPINA NEDERLAND BV

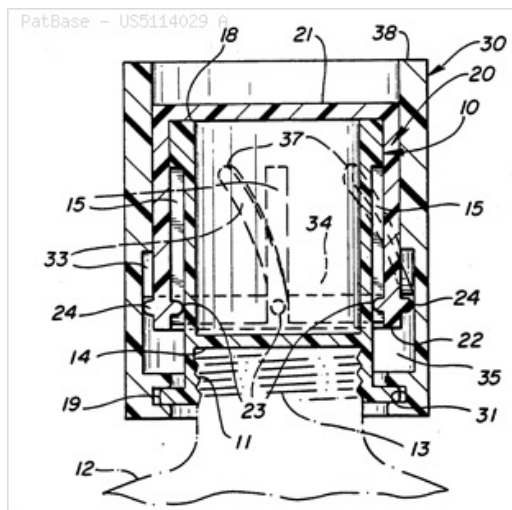
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9) Family number: 5021790 (US5114029 A) © PatBase

Title: CHILD RESISTANT BOTTLE CLOSURE ASSEMBLAGE

Abstract: There is disclosed a child resistant bottle closure assembly comprising an outer cap member, an inner cap member and an interlocking member disposed between the inner and outer cap members. When secured to a bottle in its normal, upright position, the outer cap member can be rotated without engaging the interlocking member so that the assembly can not be removed from the bottle. When the bottle is inverted so that the interlocking member engages the outer cap member, rotation of the outer cap member results in removal of the entire assembly from the bottle.

Classifications:
International (IPC 8-9): B65D50/00 B65D50/04
International (IPC 1-7): B65D50/00 B65D55/02
CPC: B65D2401/15 B65D50/041
US: 215/204 215/210 215/217 215/220 215/334



Family:

Publication number	Publication date	Application number	Application date
GB2258650 A1	19930217	GB19920014446	19920708
GB9214446 A0	19920819	GB19920014446	19920708
US5114029 A	19920519	US19910727708	19910710

Priority:

US19910727708 19910710

Probable Assignee:

MERCK AND CO INC

Assignee(s): (std):

MERCK AND CO INC

Assignee(s):

MERCK AND CO

Inventor(s): (std):

GIBILISCO KENNETH J

Inventor(s):

KENNETH J GIBILISCO

10) Family number: 54364256 (WO14184341 A1)

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Title: CONTAINER CLOSURE WITH RETRACTABLE POURING SPOUT

Abstract: A container closure assembly (10) comprises a collar (12) permanently connectable about a container filling/dispersing aperture, e.g. a neck (28, Fig. 5) of a container (14, Fig. 5). A cap (18) has a rotatably disengageable connection with the collar, e.g. a press-on, screw-off threaded connection, and the assembly includes a tear strip (64) which is removed to permit rotation of the cap relative to the collar and provide tamper indication. A pouring spout (16) is detachably connected to the cap and telescopically slidable within the collar. The tear strip may be provided on the collar, or in a skirt portion or top face of the cap. An easily grippable panel-like handle may be provided, which also comprises a ratchet detent which acts as part of an alternative tamper indicating mechanism.

Classifications:

International (IPC 8-9): B65D41/04 B65D47/06 B65D47/12
CPC: B65D2255/20 B65D2401/10 B65D2401/25 B65D41/0485
 B65D47/061 B65D47/122

PatBase - 54364256 WO14184341 A1

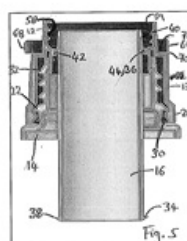


Fig. 35

Family:

Publication number	Publication date	Application number	Application date
AU2014267212 AA	20151126	AU20140267212	20140516
BR112015028833 A2	20170725	BR20151128833	20140516
CN105531194 A	20160427	CN201480040492	20140516
EP2996955 A1	20160323	EP20140728470	20140516
GB201308940 A0	20130703	GB20130008940	20130517
KR20160012169 A	20160202	KR201507035839	20140516
RU2015153982 A	20170622	RU20150153982	20140516
WO14184341 A1	20141120	WO2014EP60072	20140516

Priority:

GB20130008940 20130517 WO2014EP60072 20140516

Probable Assignee:

GREIF INT HOLDING BV

Assignee(s): (std):

GREIF INT HOLDING BV

Inventor(s): (std):

DIX MARTIN ; KEVIN MICALLEF ; MARTIN DIX ; MICALLEF KEVIN

Agent(s):

PHILLIPS AND LEIGH; SPRUSON AND FERGUSON

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

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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

11) Family number: 15213868 (US5934496 A)

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Title: ONE-PIECE MOLDED FLIP CAP CLOSURE

Abstract: A closure for a container and a method of producing the same is set forth. The closure is a single integrally-molded spout, cap and hinge assembly joining the spout and the cap. The closure may also have a membrane and pull-ring, also integrally molded as one piece. The cap may have at least one prop for preventing interference from the cap with the pouring of the contents of the container. Additionally, the spout may have a step for assisting in the prevention of interference from the cap during pouring, and for providing a predetermined sound every time that the cap is opened. Further, the closure may have a tamper-evident member to indicate that the closure has been opened. Still further, the closure may have an orienting peg for properly orienting the closure on a container.

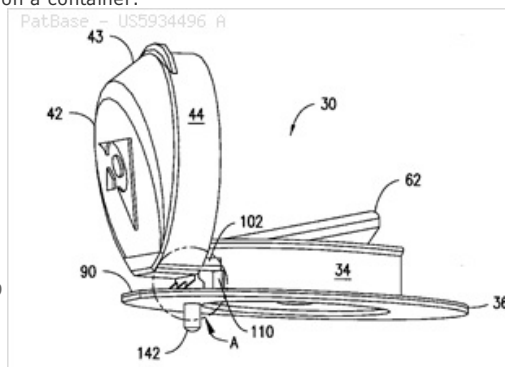
Classifications:

International (IPC 8-9): B29C45/03 B29C65/08 B65B7/28
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B65D47/14 B65D47/36 B65D49/12 B65D5/74 B65D51/24
B65D55/08

International (IPC 1-7): B29C45/03 B29C53/00 B65B7/00
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B65D47/00 B65D47/08 B65D47/10 B65D47/14 B65D47/36
B65D49/12 B65D5/74 B65D51/18 B65D51/24 B65D55/08

CPC: B29C65/08 B29C66/112 B29C66/131 B29C66/53247
B65B7/2878 B65D2251/1008 B65D2401/30 B65D47/0842
B65D47/103 B65D5/746 B65D2101/0046

US: 215/235 215/250 220/257 220/258 220/258.2 220/258.3
220/259.1 220/259.5 220/266 220/831 220/837 222/541.5 222/541.9
222/556 229/125.15 264/328.1 264/334 53/410



Family:

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BRP19712721 A	19991026	BR1997PI12721	19971028
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CA2237185 C	20070109	CA19972237185	19971028
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CA2271055 C	20050614	CA19972271055	19971028
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EP1025009 A1	20000809	EP19970946320	19971028
EP1025009 A4	20010502	EP19970946320	19971028
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KR100591233 B1	20061024	KR19980705086	19980701
KR19990076958 A	19991025	KR19980705086	19971028
KR100558236 B1	20060310	KR19997003905	19971028
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NO319275 B1	20050711	NO19980003036	19980630
NO983036 A	19980630	NO19980003036	19980630
NO983036 A0	19980630	NO19980003036	19980630
NO983036 L	19980630	NO19980003036	19980630
NO325026 B1	20080121	NO19980005114	19981102
NO985114 A	19990315	NO19980005114	19981102
NO985114 A0	19981102	NO19980005114	19981102
NO985114 L	19990315	NO19980005114	19981102
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WO9819920 A1	19980514	WO1997US19420	19971028
WO9819918 A2	19980514	WO1997US19421	19971028
WO9819918 A3	19981210	WO1997US19421	19971028

Priority:

US19960030312P 19961101 WO1997US19421 19971028 WO1997US19420 19971028
US19970958995 19971028 US19970958996 19971028 US19990321394 19990527
US19990320764 19990527 US19990455296 19991206

Probable Assignee: TETRA LAVAL HOLDINGS AND FINANCE SA

Assignee(s): (std): LUNDH KARL ERIK ; MOGARD JENS ; RICKARDSSON GOTE ELOF ; TETRA LAVAL HOLDINGS AND FINANCE ; TETRA LAVAL HOLDINGS AND FINANCE S ; TETRA LAVAL HOLDINGS AND FINANCE S A ; TETRA LAVAL KOLDINGZ EHND FAJNEHNS S A ; TETRA PAK LAVAL HOLDINGS AND FINANCES SA ; TETRA PAK RES AND DEV AB

Assignee(s): M S TETRA LAVAL HOLDINGS AND FINANCE SA ; RICKARDSSON GOTE ; TETRA LAVAL HOLDINGS AND FINANCE AVENUE GENERAL GU ; TETRA LAVAL HOLDINGS AND FINANCE S A PULLY ; TETRA LAVAL' KOLDINGZ EHND FAJNEHNS S A ; TETRA PAK RESEARCH AND DEVELOPMENT AB

Inventor(s): (std): ELOF GOTE ; KARDSSON COLE ; LUNDH K E ; LUNDH KARL ERIK ; LUNDKH KARL ERIK ; MOGARD J ; MOGARD JENS ; MOGARD JERIS ; RICHARDSSON G E ; RICKARDSSON G E ; RICKARDSSON GOTE ; RICKARDSSON GOTE ELOF ; RICKARDSSON GOTE EHLOF

Inventor(s): G E RICHARDSSON ; G E RICHARDSSON ; GOTE ELOF ; GOTE ELOF RICKARDSSON ; J MOGARD ; JENS MOGARD ; K E LUNDH ; KARL ERIK LUNDH

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

12) Family number: 11819769 (US5680965 A)

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Title: TAMPER EVIDENT CONTAINER CLOSURE

Abstract: A tamper evident closure construction is provided for use with a container of the type having a neck with a discharge orifice therein. The tamper evident closure construction includes a dispenser cap for controlling the dispensing of materials through the discharge orifice. The dispenser cap includes a base connected to the neck and a dispensing portion connected to the base. The tamper evident container closure construction also includes a container cap having a mounting portion adapted to be fastened directly to the neck of the container and a second dispensing portion connected by at least one tamper evident connection to the mounting portion. The at least one tamper evident connection is severable from the mounting portion to provide a visual indication of tampering. The second dispensing portion, when severed, is disposed for sliding movement with respect to the first dispensing portion to facilitate the dispensing of materials from the container. The mounting portion operates to secure and seal the base of the dispenser cap to the neck once assembled thereto.

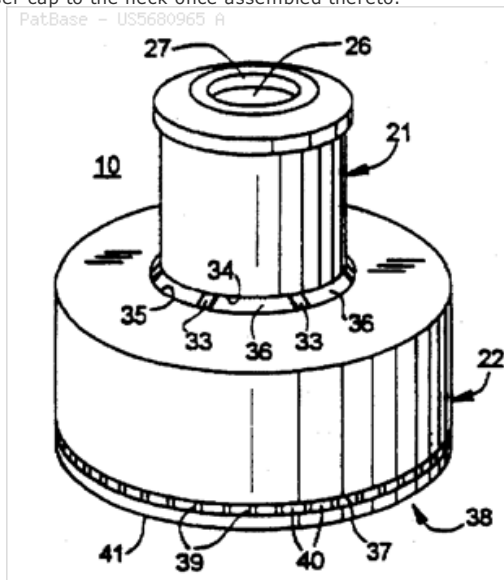
Classifications:

International (IPC 8-9): B65D47/04 B65D47/24 B65D51/20

International (IPC 1-7): B65D51/20 B67B5/00

CPC: B65D2401/15 B65D47/243

US: 222/153.06 222/525 222/541.5 222/559 D9/447



Family:

Publication number	Publication date	Application number	Application date
CA2210773 AA	19990117	CA19972210773	19970717
CA2210773 C	20010918	CA19972210773	19970717
US5680965 A	19971028	US19960593673	19960129

Priority:

US19960593673 19960129 CA19972210773 19970717

Probable Assignee: INNOVATIVE PLASTIC TECHNOLOGY INC

Assignee(s): (std): BECK MATTHEW R ; INNOVATIVE PLASTIC TECHNOLOGY

Assignee(s): INNOVATIVE PLASTIC TECHNOLOGY INC

Inventor(s): (std): BECK MATTHEW R

13) Family number: 1111340 (AU689066 B1)

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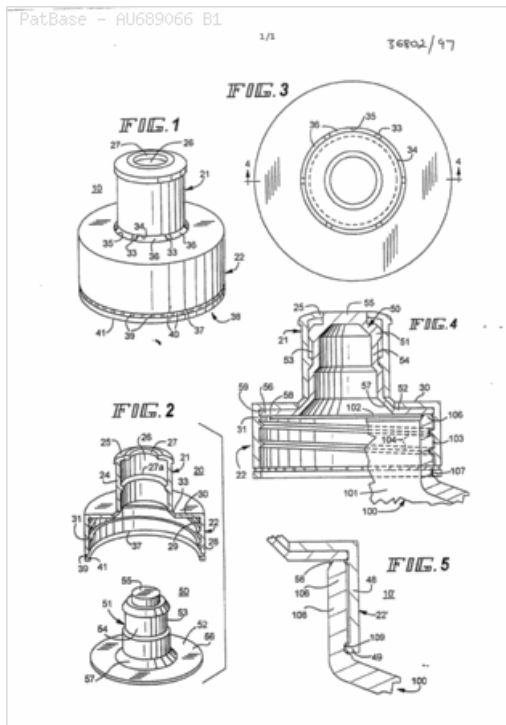
Title: Tamper evident container closure

Abstract: 1. A tamper evident closure construction for use with a container of the type having a neck with a discharge orifice therein, comprising: a dispenser cap for controlling the dispensing of materials through the discharge orifice, including a base adapted to be connected to the neck of the container and a first dispensing portion connected to said base; and a container cap including a mounting portion adapted to be fastened directly to the neck of the container and a second dispensing portion connected by at least one tamper evident connection to said mounting portion, wherein said at least one tamper evident connection is severable from said mounting portion to provide a visual indication of tampering and wherein said second dispensing portion when severed is disposed for sliding movement with respect to said first dispensing portion to facilitate the dispensing of materials from the container. 2. The tamper evident closure construction of claim 1, wherein said at least one tamper evident connection includes a plurality of frangible webs. 3. The tamper evident closure construction of claim 1, wherein said first and second dispensing portions are inner and / 2 i I

Classifications:

International (IPC 8-9): B65D41/00 B65D41/34 B65D41/38 B65D41/62 B65D55/02 B65D55/08

International (IPC 1-7): B65D41/38 B65D41/62 B65D55/08

**Family:**

Publication number	Publication date	Application number	Application date
AU689066 B1	19980319	AU19970036802	19970904

Priority:

AU19970036802 19970904

Probable Assignee: BECK MATTHEW R

Assignee(s): (std): BECK MATTHEW R

Assignee(s): INNOVATIVE PLASTIC TECHNOLOGY INC ; MATTHEW R BECK

Inventor(s): (std): BECK MATTHEW R

Inventor(s): MATTHEW R BECK

Agent(s): PHILLIPS ORMONDE FITZPATRICK

14) Family number: 30117085 (US6145688 A)

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Title: CLOSURE DEVICE FOR CONTAINERS

Abstract: An injection molded assembly forming a sealing device for a threaded or non-threaded container using a double cap concept with pressure responsive convex sealing; also disclosed is a wiping mechanism, a one piece construction, a tamper resistant construction, a limited air exchange construction while allowing easy access to fluid contents, a sterile air venting and filter construction, a one piece tamper evident closure with a tethered container, and a frangible tether means molded with the formation of the sealing device.

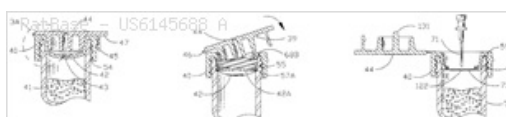
Classifications:

International (IPC 8-9): A61J1/00 A61M5/32 B01L3/14 B65B1/04 B65D43/16 B65D47/08

International (IPC 1-7): A61J1/00 B65D41/32 B65D51/18 B65D55/16

CPC: B01L3/50825 B65D2251/105 B65D47/0842 Y10S215/03 B01L2200/026 B01L2200/0615 B01L2200/141 B01L2300/043

US: 141/23 141/286 141/329 141/59 215/247 215/248 215/253 215/278 215/306 215/308 215/DIG.003 215/DIG.3 215/DIG.3S 220/229 220/254.3 220/258.1 220/258.3 220/259 220/259.1 220/259.100P 220/259.2 220/259.200S 220/259.3 220/266 220/367.1 220/371 220/375 220/847 401/122 422/102 422/102S 422/400 422/400S 604/411 604/411P

**Family:**

Publication number	Publication date	Application number	Application date
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US6145688 A	20001114	US19970895494	19970716
US6375028 BA	20020423	US20000645109	20000823
US2002130100 AA	20020919	US20020113237	20020328
US6622882 BB	20030923	US20020113237	20020328
US7387216 BA	20080617	US20030623933	20030721
US2008228163 AA	20080918	US20080154062	20080520
US7886779 BB	20110215	US20080154062	20080520

Priority:

US19960021934P 19960717 US19970895494 19970716 US20000645109 20000823
US20020113237 20020328 US20030623933 20030721 US20080154062 20080520

Probable Assignee: SMITH JAMES C

Assignee(s): (std): SMITH JAMES C

Inventor(s): (std): SMITH JAMES C

Inventor(s): JAMES C SMITH

Agent(s): JAMES C SMITH

15) Family number: 3693750 (US4948003 A)

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Title: CONTAINER AND CLOSURE WITH INTERNAL TAMPER INDICATION

Abstract: Disclosed is a tamper-evident closure for a container having a finish opening and including a cap member hingedly connecting to a base member. The base member is threadingly engaged with the bottle finish, and includes an upwardly extending pour spout. A sealing disk is installed in the interior of the pour spout and is secured thereto with a rupturable ring. A pull tab is attached to the sealing disk and, when pulled, causes removal of the sealing disk, thereby allowing access to the interior of the bottle container. The cap includes an interior wall which engages the pour spout with a snap fit, providing a liquid-tight and airtight closure therefor.

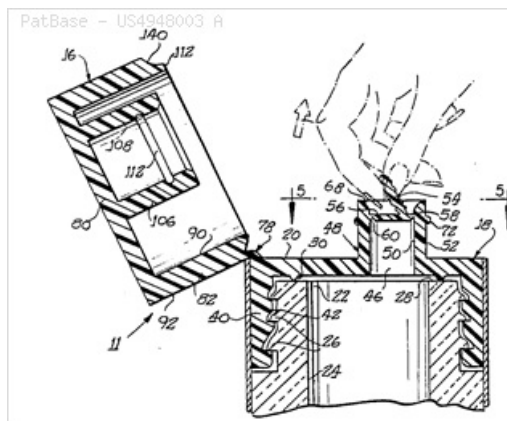
Classifications:

International (IPC 8-9): B65D47/06 B65D47/08 B65D47/10
B65D53/04

International (IPC 1-7): B65D53/04 B65D55/02

CPC: B65D2251/105 B65D2401/00 B65D47/0838 B65D47/0876
B65D47/103

US: 215/224 215/237 215/246 215/253



Family:

Publication number	Publication date	Application number	Application date
CA2007746 AA	19900726	CA19902007746	19900115
CA2007746 C	20020409	CA19902007746	19900115
US4948003 A	19900814	US19890302474	19890126

Priority:

US19890302474 19890126 CA19902007746 19900115

Probable Assignee: KRAFT FOODS HOLDINGS INC

Assignee(s): (std): KRAFT INC

Assignee(s): KRAFT FOODS HOLDINGS INC ; KRAFT FOODS INC ; KRAFT GENERAL FOODS INC ; MUNOZ DANIEL R

Inventor(s): (std): MUNOZ DANIEL R

Agent(s): MACRAE AND CO

16) Family number: 24157224 (US4928837 A)

© PatBase

Title: TAMPER EVIDENT CLOSURE

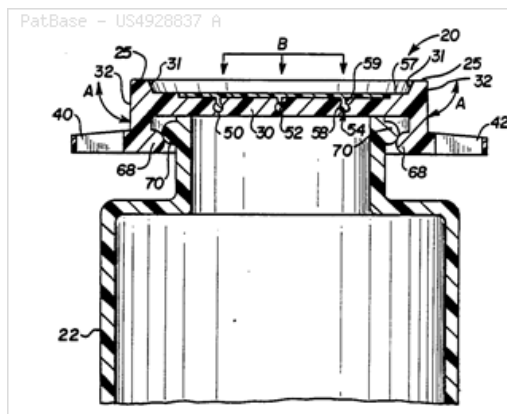
Abstract: The tamper evident closure is a resilient closure which is snap fit onto a container. The resilient closure has an end wall with a plurality of transverse grooves. A resin is deposited on the top surface of the end wall and into the grooves. If the closure is moved away from the container, the top layer of resin and a portion of the resin in the grooves will fracture, thus indicating to the consumer that tampering with the container has occurred. A portion of the resin will remain in the grooves to indicate that the resin was applied when the closure was initially sealed. In another embodiment, the closure comprises a rotatable portion and a fixed portion. The rotatable and fixed portion have grooves which contain a resin. When the rotatable portion is pivoted away from the fixed portion to open the container, a portion of the resin fractures, thus indicating tampering with the container. A portion of the resin also remains in the grooves.

Classifications:

International (IPC 8-9): B65D41/58 B65D43/02 B65D43/16
B65D47/08 B65D55/02

International (IPC 1-7): A61J B65D41/18 B65D41/58 B65D43/16
B65D47/08 B65D47/12 B65D50/00 B65D51/00 B65D53/06
B65D55/02 B65D55/06

CPC: B65D2401/00 B65D2543/00092 B65D2543/00231
B65D2543/00296 B65D2543/00527 B65D2543/00537
B65D2543/00629 B65D2543/00685 B65D2543/0074



Family:

Publication number	Publication date	Application number	Application date
AU199065622 A1	19911128	AU19900065622	19901030
AU638290 B2	19930624	AU19900065622	19901030
CA2027682 AA	19911126	CA19902027682	19901015
EP0457961 A2	19911127	EP19900121597	19901112
EP0457961 A3	19920708	EP19900121597	19901112
FI905787 A	19911126	FI19900005787	19901123
FI905787 A0	19901123	FI19900005787	19901123
JP4031255 A2	19920203	JP19900341230	19901130
NO905171 A	19911126	NO19900005171	19901129
NO905171 A0	19901129	NO19900005171	19901129
NO905171 L	19911126	NO19900005171	19901129
NZ235919 A	19930927	NZ19900235919	19901031
US4928837 A	19900529	US19890347363	19890504
US4998989 A	19910312	US19900529342	19900525

Priority:

US19890347363 19890504 US19900529342 19900525 CA19902027682 19901015

Probable Assignee: OPSEC SECURITY GROUP INC

Assignee(s): (std): TEII ESU ERU INC ; TSL INC

Assignee(s): APPLIED OPSEC INC ; APPLIED OPTICAL TECHNOLOGIES HOLDINGS INC ; BARD RICHARD H ; CUIEL YORAM ; HUNT CAPITAL GROUP LLC ; OPSEC SECURITY GROUP INC ; OPTICAL SECURITY GROUP INC ; OPTICAL SECURITY GROUP INC WAS TSL INC ; OPTICAL SECURITY GROUP INC WAS TSL INCORPORATED.. ; ORCA HOLDINGS LTD ; ROYAL BANK OF SCOTLAND PLC AGENT FOR NATIONAL W AS ; ROYAL BANK OF SCOTLAND PLC AGENT FOR NATIONAL WEST ; ROYAL BANK OF SCOTLAND PLC AGENT FOR NATIONAL WESTMINSTER BANK PLC AS ; ROYAL BANK OF SCOTLAND PLC AS AGENT FOR NATIONAL W ; TSL INCORPORATED

Inventor(s): (std): CUIEL YORAM ; YORAMU KURIERU

Inventor(s): YORAM CUIEL

Agent(s): ASPEN PHARMA PTY LTD; SMART AND BIGGAR; SPRUSON AND FERGUSON

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

17) Family number: 11103729 (US5641099 A)

© PatBase

Title: Nestable pouring spout assembly

Abstract: An all-plastic closure for snap-fit attachment to a raised neck finish of a plastic container for closing the container includes a unitary dispensing spout, a threaded closing cap, and a unitary outer ring which is attached to the closing cap by a plurality of frangible elements. The neck finish of the container has a substantially cylindrical inner surface defining a container opening wherein the upper outer edge of the neck finish is configured with an outwardly extending lip portion and a recessed area therebeneath which is used for interlocking and snap-fit engagement with the all-plastic closure. The dispensing spout is moveable back and forth between a nested position and an extended position and includes an outer flange with annular inner and outer walls which are joined by an upper wall and which together define an inverted annular channel. The unitary outer ring is assembled onto and around the outer flange with a snap-fit arrangement. The annular channel of the outer flange is designed to snap over and around the raised neck finish whereby the annular inner and outer walls are sized relative to the raised neck so as to create a compressive fit against the raised neck for establishing a liquid-tight interface between the closure and the container. The closure is made tamper-evident by the presence of the frangible elements.

Classifications:

International (IPC 8-9): B65D25/44 B65D39/08 B65D41/04
B65D45/32 B65D47/06 B65D51/20 B65D53/00 B65D55/02
B65D6/00

International (IPC 1-7): B65D B65D25/44 B65D39/00 B65D39/02
B65D39/08 B65D41/04 B65D47/06 B65D47/10 B65D53/00
B65D55/02 B65D6/00 B67D3/00

CPC: B65D47/063

US: 222/530 222/541.9

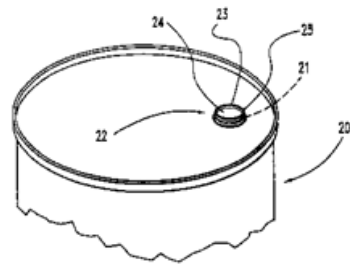


FIG. 1

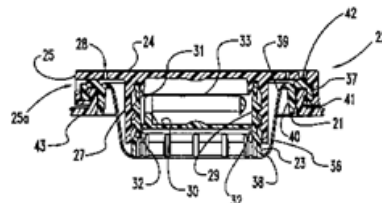


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
AR004996 AA	19990407	AR1996P105553	19961206
CA2191942 AA	19970609	CA19962191942	19961203
CL1996002170 A1	19971110	CL19960002170	19961206
EP0779227 A1	19970618	EP19960308714	19961203
JP9183455 A2	19970715	JP19960328759	19961209
KR19970042110 A	19970724	KR19960064074	19961207
KR970042110 A	19970724	KR19960064074	19961207
MX9606104 A1	19970830	MX19960006104	19961204
NO965223 A	19970609	NO19960005223	19961206
NO965223 A0	19961206	NO19960005223	19961206
NO965223 L	19970609	NO19960005223	19961206
SG44064 A1	19971114	SG19960011487	19961130
TH30956 A	19981120	TH19961004168	19961202
TR9600967 A2	19970621	TR19960000967	19961205
TR970478 A2	19970621	TR19960000967	19961205
US5641099 A	19970624	US19950569920	19951208
US5797525 A	19980825	US19970856633	19970514

Priority:

US19950569920 19951208 CA19962191942 19961203 US19970856633 19970514

Probable Assignee: RIEKE CORP

Assignee(s): (std): RIEKE CORP

Assignee(s): ARROW ENGINE CO ; BANK OF NEW YORK MELLON TRUST CO NA SECOND LIEN AG ; BANK OF NEW YORK MELLON TRUST CO NA SECOND LIEN AGENT AS ; BEAUMONT BOLT AND GASKET INC ; CEQUENT CONSUMER PRODUCTS INC ; CEQUENT PERFORMANCE PRODUCTS INC ; CEQUENT TOWING PRODUCTS INC ; COMPAC CORP ; CONSUMER PRODUCTS INC ; CUYAM CORP ; DEW TECHNOLOGIES INC ; DI RITE CO ; DRAW TITE INC ; ENTEGRA FASTENER CORP ; FULTON PERFORMANCE PRODUCTS INC ; HAMMERBLOW ACQUISITION CORP ; HAMMERBLOW CO LLC ; HI VOL PRODUCTS LLC ; INDUSTRIAL BOLT AND GASKET INC ; JPMORGAN CHASE BANK NA ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; KEO CUTTERS INC ; LAKE ERIE PRODUCTS CORP ; LAMONS GASKET CO ; LAMONS METAL GASKET CO ; LOUISIANA HOSE AND RUBBER CO ; MAGLEY ROBERT E ; MCLELLAND DOUGLAS M ; MONOGRAM AEROSPACE FASTENERS INC ; NETCONG INVESTMENTS INC ; NI IND INC ; NI WEST INC ; NORRIS CYLINDER CO ; NORRIS ENVIRONMENTAL SERVICES INC ; NORRIS IND INC ; PLASTIC FORM INC ; REESE PRODUCTS INC ; RESKA SPLINE PRODUCTS INC ; RICHARDS MICRO TOOL INC ; RIEKE LEASING CO INC ; RIEKE OF INDIANA INC ; RIEKE OF MEXICO INC ; RIEKE SOC ORGANIZADA BAJO LAS LEYES DEL ES TADO DE INDIANA CORP ; RIUKU CORP ; TOWING HOLDING LLC ; TRIMAS CO LLC ; TRIMAS CORP ; TRIMAS INT HOLDINGS LLC ; WESBAR CORP

Inventor(s): (std): DAGURASU EMU MAKURERANDO ; MAGLEY ROBERT E ; MAGLEY ROBERT W ; MCLELLAND DOUGLAS M ; ROBAATO II MAGUREE

Inventor(s): DOUGLAS M MCLELLAND ; ROBERT E MAGLEY ; ROBERT W MAGLEY

Agent(s): SMART AND BIGGAR; VILLASECA

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

18) Family number: 40746857 (WO07121426 A2)

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Title: TAMPER-EVIDENT CLOSURE VALVE

Abstract: A closure opens and closes by a user-actuated rotation of a spout-like valve element about a transverse axis to

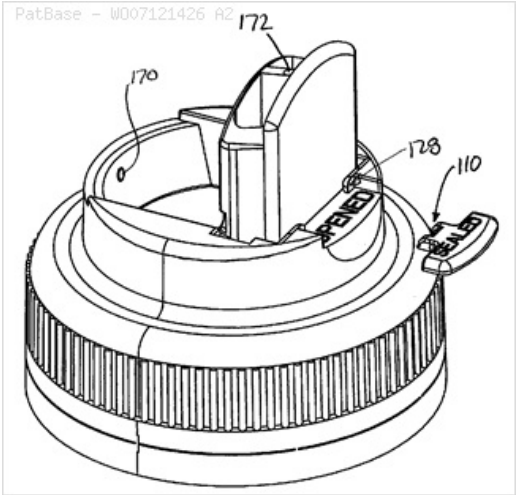
expose a channel of the valve element to an aperture in the body. The rotation severs a tamper-evidencing projection from the valve element.

Classifications:

International (IPC 8-9): B65D41/32 B65D47/00 B65D47/02

B65D47/06

CPC: B65D47/305



Family:

Publication number	Publication date	Application number	Application date
WO07121426 A2	20071025	WO2007US66761	20070417
WO07121426 A3	20071213	WO2007US66761	20070417
WO07121428 A2	20071025	WO2007US66763	20070417
WO07121428 A3	20071213	WO2007US66763	20070417
WO07121430 A2	20071025	WO2007US66766	20070417
WO07121430 A3	20071213	WO2007US66766	20070417

Priority:

US20060744947P 20060417

Probable Assignee: PLASTEK IND INC

Assignee(s): (std): PLASTEK IND INC ; SEAGER RICHARD H ; SZEKELY ALEX S

Assignee(s): PLASTEK INDUSTRIES INC

Inventor(s): (std): SEAGER RICHARD H ; SZEKELY ALEX S

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 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

19) Family number: 13261905 (US5213225 A)

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Title: CONTAINER AND CLOSURE

Abstract: 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.

Classifications:

International (IPC 8-9): B29C49/06 B65D1/02 B65D1/20 B65D23/00

B65D23/06 B65D25/14 B65D25/16 B65D39/00 B65D41/04

B65D41/32 B65D41/34 B65D41/48 B65D50/00 B65D50/04

B65D51/18 B65D51/20 B65D51/24 B65D55/02 B65D55/06

International (IPC 1-7): B29C49/06 B29C69/00 B65B41/04

B65D1/02 B65D1/20 B65D25/16 B65D39/00 B65D39/08 B65D41/04

B65D41/08 B65D41/18 B65D41/28 B65D41/32 B65D41/34

B65D41/48 B65D45/00 B65D47/14 B65D50/00 B65D50/04

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B65D55/02 B65D55/06 B65D55/08 B65D55/12

CPC: B65D2501/0081 B65D41/0471 B65D51/242 B65D1/02

B65D1/023 B65D2251/0015 B65D2251/0093 B65D23/06

B65D2401/15 B65D25/04 B65D25/16 B65D41/0414 B65D41/0428

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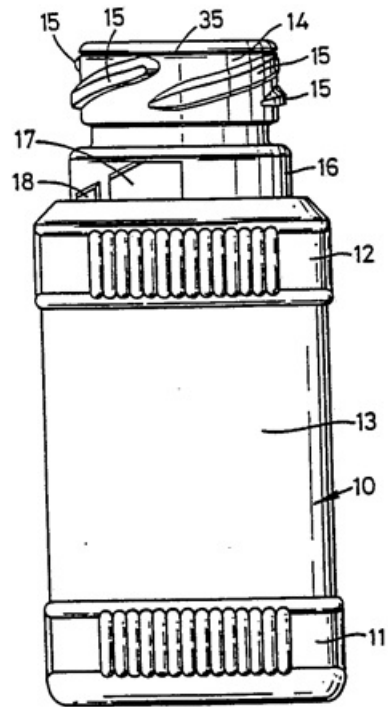
B65D55/066 B65D77/0493

US: 205/305 205/329 205/330 205/331 215/214 215/216 215/217

215/218 215/219 215/220 215/228 215/252 215/305 215/317

215/321 215/329 215/330 215/331 215/332 215/341 215/346

215/349 215/353 220/212.5 220/296 220/751



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Publication number	Publication date	Application number	Application date
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US19950486041 19950607		

Probable Assignee: BEESON AND SONS LTD

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

Assignee(s): BEESON AND SONS COMPANHIA DE REINO UNIDO LTD ; BEESON AND SONS LILIMITED ; BEESON AND SONS LIMITED ; BEESON AND SONS LIMITED COMPANHIA DE REINO UNIDO ; BEESON AND SONS LTD RICKMANSWORTH HERTFORDSHIRE GB ; BISAN EHND SANS LIMITED ; KING ROGER MILNER ; KING WITNEY 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 ; OFFEY 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): KING ROGER MILNER LATIMER BUCKS HP5 1UL GB ; KING WITNEY MILNER LATIMER BUCKS HP5 1UL GB ; MILNER KING ROGER ; OFFLEY RODNEY GEORGE MOUNT SORREL LEICESTERSHIRE LE12 7EA GB ; POWELL ROGER EDWIN MUNDFORD NORFOLK IP26 5HJ GB ; RODNEY GEORGE OFFEY ; UITNI MILNER KING ; WITNEY MILNER KING

Agent(s): FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; 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

Title: CLOSURE

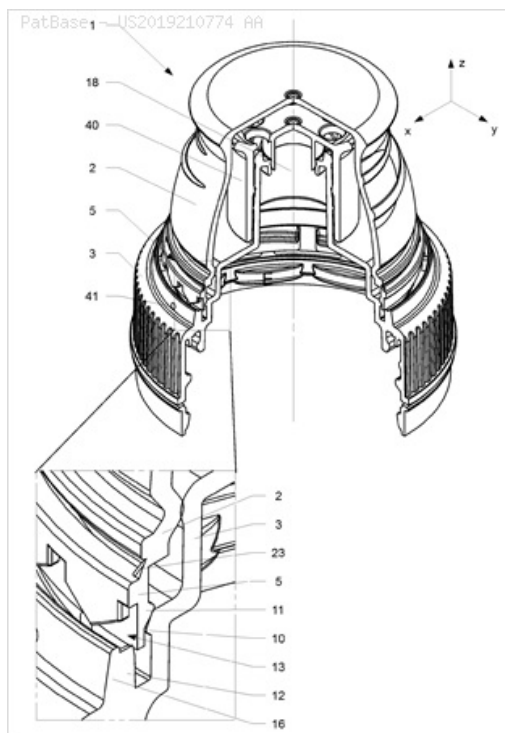
Abstract: A closure comprising a base body with a circumferential recess foreseen to receive a tamper band connected to a top cover. The circumferential recess comprises at least one circumferential protrusion extending in a radial direction into the recess which comprises at least one pillar extending in the radial direction into the recess, tamper band comprises at least one circumferential undercut foreseen to interact in a mounted position with the circumferential protrusion of the circumferential recess. The tamper band comprises at least one notch foreseen to receive at least one pillar arranged in the circumferential recess.

Classifications:

International (IPC 8-9): B65D41/48 B65D47/08 B65D47/24 B65D47/26 B65D51/18 B65D55/02 B65D81/26 B65D85/72

International (IPC 1-7): B65D41/48 B65D47/08 B65D47/24 B65D51/18 B65D55/02 B65D81/26 B65D85/72

CPC: B65D2251/0015 B65D2251/0087 B65D2401/30 B65D41/48 B65D47/0809 B65D47/243 B65D47/263 B65D51/18 B65D81/261 B65D85/72



Family:

Publication number	Publication date	Application number	Application date
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BR112019002454 A2	20190514	BR20191102454	20170908
CA3037425 AA	20190319	CA20173037425	20170908
CN109715513 A	20190503	CN201780051989	20170908
DE602017021191 D1	20200827	DE201760021191T	20170908
EP3519314 A1	20190807	EP20170764396	20170908
EP3519314 B1	20200805	EP20170764396	20170908
MX2019003409 A1	20190704	MX20190003409	20170908
US2019210774 AA	20190711	US20170327166	20170908
WO18059909 A1	20180405	WO2017EP72577	20170908

Priority:

CH20160001290 20160929 WO2017EP72577 20170908 EP20170764396 20170908

Probable Assignee: CREANOVA UNIVERSAL CLOSURES LTD

Assignee(s): (std): CREANOVA UNIVERSAL CLOSURES LTD

Assignee(s): BEVAN DAVID ; DIMOND JAMES

Inventor(s): (std): BEVAN DAVID ; DAVID BEVAN ; DIMOND JAMES ; JAMES DIMOND

Agent(s): DAVIES COLLISON CAVE PTY LTD; MCCARTHY TETRAULT LLP; RENTSCH PARTNER AG

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 JO 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

Title: SNAP-ON, SCREW-OFF CAP AND CONTAINER NECK

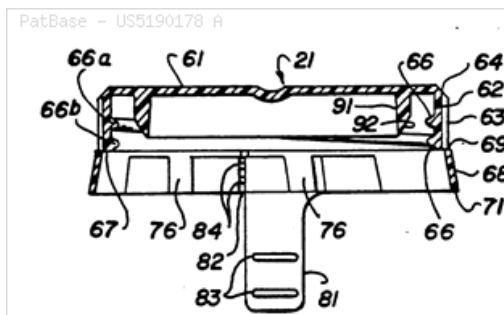
Abstract: A tamper-evident, snap-on, screw-off closure is used with a specially shaped container neck. The neck has double lead external threads and, below the threads, external ratchet teeth arranged in two diametrically opposed quadrants. The closure has an upper skirt having internal threads mating with the neck threads. A lower skirt is connected to the upper skirt by a plurality of frangible bridges. The lower skirt has opposed quadrants having internal ratchet teeth to mate with the neck ratchet teeth. 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. The tear tab constitutes an orientation means to properly locate the cap on the neck so that an axial downward push on the cap engages the internal and external threads and internal and external ratchet teeth.

Classifications:

International (IPC 8-9): B29C65/00 B29C65/02 B65B7/28 B65D B65D1/02 B65D39/00 B65D41/02 B65D41/04 B65D41/17 B65D41/32

B65D41/34 B65D41/46 B65D41/47 B65D41/48 B65D51/18
 B65D51/20 B65D55/08 B65D77/10 B65D77/20 B67B3/00 B67B3/20
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CPC: B65D1/023 B65D2251/0015 B65D2251/0093 B65D2401/15
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 B65D41/0421 B65D41/0471 B65D41/17 B65D41/34 B65D41/3404
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 B65D41/485 B29C65/366 B29L2031/7158

US: 156/69 215/232 215/254 215/256 215/307 215/318 215/32
 215/320 215/329 215/332 215/350 215/351 215/354 215/44 215/45 220/258 220/258.2 220/270 220/276 220/296 220/359
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: PORTOLA PACKAGING INC

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

Assignee(s): 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 ; HELLER FINANCIAL INC A DELAWARE BUSINESS TRUST ; LUCH DANIEL ; PORTOLA PACKAGING INC F K A CAP SNAP CO ; REPP RICHARD E ; WAYZATA INVESTMENT PARTNERS LLC ; WAYZATA INVESTMENT PARTNERS LLC (AGENT FOR SUBORDINATED CREDITORS) ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDI ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDIN ; WAYZATA INVESTMENT PARTNERS LLC AGENT FOR SUBORDINATED CREDITORS ; WELLS FARGO FOOTHILL LLC AGENT AS ; WELLS FARGO FOOTHILL LLC AS AGENT

Inventor(s): (std): ABSOLOM ANNA ; BIETZER STEVEN H ; CHENAULT RAWSON L ; HENSON JOHNNY S ; KRISCHKE KURT ; KRISCHKE KURT A ; LUCH DANIEL ; REPP RICHARD E ; WEST WILLIAM R

Inventor(s): ANNA ABSOLOM ; DANIEL LUCH ; RAWSON L CHENAULT ; RICHARD E REPP ; STEVEN H BIETZER

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

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

22) Family number: 15510485 (US2004232167 AA)

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Title: CLOSURE SSEMBLY WITH VALVE

Abstract: A container closure assembly includes: a container neck having a first thread on an outer surface thereof; a closure for the neck, the closure having an opening therein, a skirt extending downwardly, and a second thread on an internal surface of the skirt for engaging the first thread on the container neck; and complementary valve elements on the neck and the closure, wherein the valve elements engage to provide a fluid-tight seal over the neck when the closure is fully secured on the neck, but the valve elements allow fluid from the neck to flow out through the opening when the closure is at an intermediate position at which the closure is still retained on the neck, and wherein the closure is moveable from the fully secured position to the intermediate position by relative rotation of the closure and the neck. The assembly is especially useful on containers for carbonated or non-carbonated sports drinks.

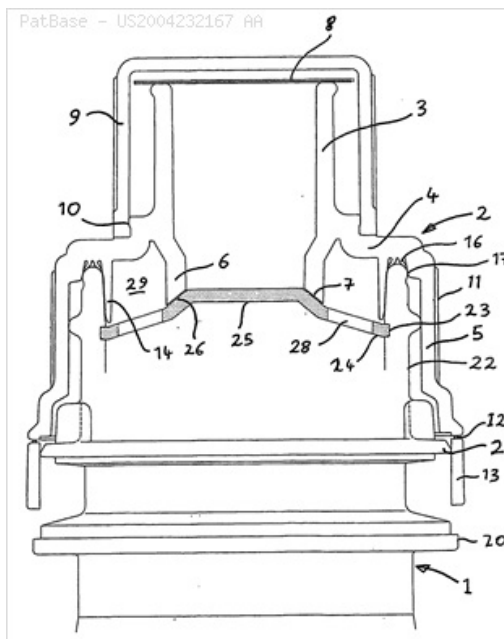
Classifications:

International (ipc 8-9): B65D B65D41/04 B65D41/06 B65D41/34 B65D47/04 B65D47/20 B65D47/24 B65D51/24

International (ipc 1-7): B65D41/04 B65D41/06 B65D41/34 B65D47/24 B65D51/24 B67D3/00

CPC: B65D47/242

US: 222/153.14 222/52 222/520 222/521 222/541.1 222/541.9 222/153.140P 222/520S



Family:

Publication number	Publication date	Application number	Application date
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AU2002314361 BB	20061012	AU20020314361	20020703
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CA2449986 AA	20031208	CA20022449986	20020703
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HK1062821 B	20070713	HK20040105674	20040802
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JP4160899 B2	20081008	JP20030510355	20020703
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NO20035812 L	20040108	NO20030005812	20031223
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PL200984 B1	20090227	PL20020367069	20020703
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PT1401724 T	20070430	PT20020740932T	20020703
RU2004102906 A	20041027	RU20040102906	20020703
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US7331491 BB	20080219	US20020482726	20020703
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WO03004373 A1	20030116	WO2002GB03064	20020703

Priority:

GB20010016306 20010703 GB20010016861 20010710 WO2002GB03064 20020703

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 HERTFORD HOUSE DENHAM WAY LTD ; BEESON AND SONS LIMITED ; BISAN EHND SANZ LIMITED

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

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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 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

23) Family number: 28090564 (US2003038146 AA)

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Title: SAFETY CLOSURE FOR A CONTAINER

Abstract: An embodiment of a safety closure for a container includes a sleeve which is fixed to the container inside of which a part is rotatable to place the container in a position where dispensing may take place. A recess in the sleeve with a vertical wall cooperates with an outwardly biased hinged tab on the rotatable part abutting the wall and preventing rotation, unless the tab is pushed in to clear the wall, while at the same time rotating the first part to said dispensing position.

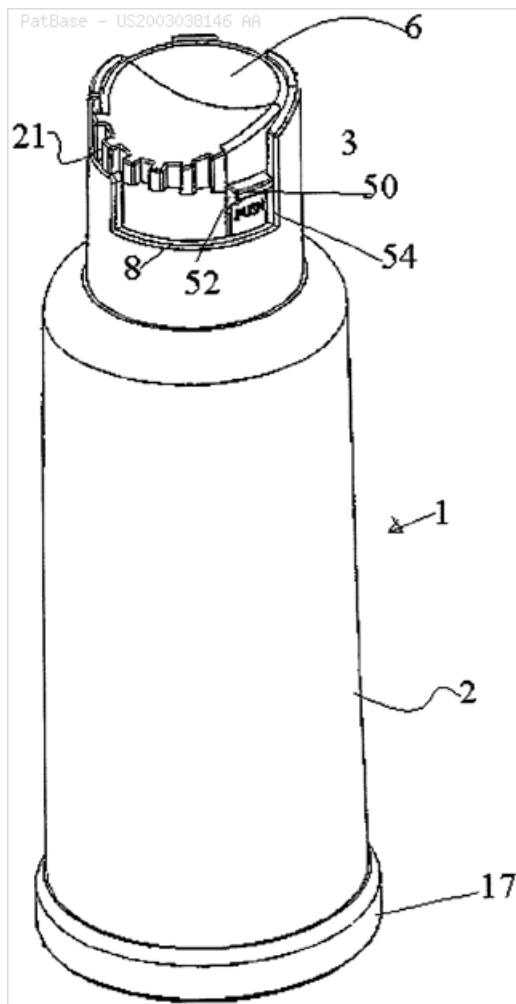
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International (IPC 1-7): B05B11/00 B65D83/00 B65D83/06 B65D83/16 B65D83/22 B67B5/00 B67D5/32 B67D5/33 B67D5/378 B67D5/42

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US: 215/216 220/214 222/153.13 222/153.130P 222/153.14 222/153.140P 222/153.140S 222/321.9 222/321.900S 222/402.11 222/402.110S 222/519 222/548 222/558



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Publication number	Publication date	Application number	Application date
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Priority:

US20010933011 20010821 WO2002US26365 20020820 US20030635527 20030807
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Probable Assignee: DISPENSING PATENTS INT LLC

Assignee(s): (std): DISPENSING PATENTS INT LL ; DISPENSING PATENTS INTERNAT LL ; DISPENSING PATENTS INTERNATIONAL ; MESHBERG PHILIP

Assignee(s): DISPENSING PATENTS INT ; DISPENSING PATENTS INT LLC ; DISPENSING PATENTS INTERNATIONAL LLC ; DISPENSING PATENTS INTIONAL

Inventor(s): (std): MESHBERG PHILIP

Inventor(s): PHILIP MESHBERG

Agent(s): KENYON AND KENYON; KENYON AND KENYON 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 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

Abstract: A dispenser comprises a housing that has a removable tamper proof protective cap and tamper proof ring and is threaded to a container. The container, which is the main package, holds the supplemental component. The housing holds the first component into a plunger type chamber in a fully retracted position and is sealed from the supplemental component. The chamber has a delivery end that is closed before use. When pushed all the way in, the chamber's delivery end becomes open and delivers the first component into the main package.

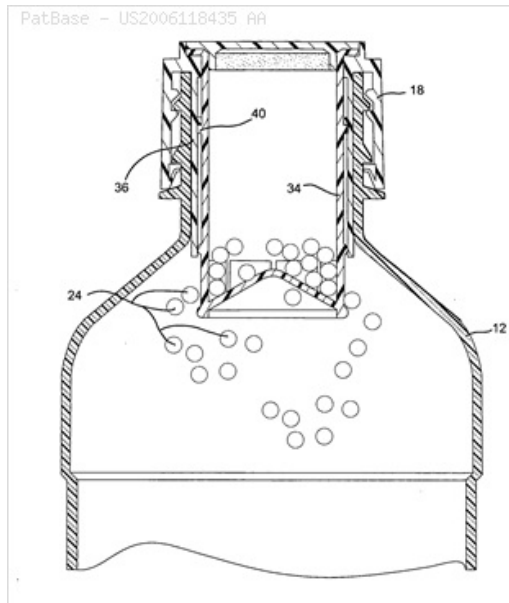
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International (ipc 1-7): B65D25/08

CPC: B65D2401/25 B65D47/243 B65D51/2892 Y10S215/08

US: 206/219 206/221 206/222 215/DIG.8 220/276 220/276S 220/521 220/521S 53/420 53/420P 215/DIG.008



Family:

Publication number	Publication date	Application number	Application date
AT510778 E	20110615	AT20050823427T	20051104
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US2011192735 AA	20110811	US20100942443	20101109
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US20040624931P 20041104	US20040624931 20041104	WO2005US40171 20051104
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US20100942443 20101109		

Probable Assignee: GRD BUSINESS VENTURES LLC

Assignee(s): (std): BELL RICHARD ; CRONIN JERRY ; HENSHAW ROBERT ; HISATA SUZUKO ; KROLL RUSSELL J ; MCMENNAMY STEPHEN ; MOISE VLAD ; PALERMO PHIL ; VIZ ENTERPRISE LLC ; VIZ ENTERPRISES LLC ; VIZ ENTERPROISES LLC ; VIZ ENTPR LLC

Assignee(s): C O CHRIS DRAPER BECKER AND POLIAKOFF ; GRD BUSINESS VENTURES LLC ; GTM HOLDINGS INC ; INTRIAGO FEDERICO ; RANDAL J BRIESATH TRUST DTD OCTOBER 15 2009 ; RANPAMBRY LP ; SEISMIC SOLUTIONS LLC ; VIZ ENTERPRISES LLC WILMINGTON

Inventor(s): (std): BELL RICHARD ; CRONIN JERRY ; HENSHAW ROBERT ; HISATA SUJUKO ; HISATA SUZUKO ; JERRY CRONIN ; KROLL RUSSEL J ; KROLL RUSSELL J ; MCMENNAMY STEPHEN ; MOISE VLAD ; MOLSE VLAD ; PALERMO PHIL ; PHIL PALERMO ; RICHARD BELL ; ROBERT HENSHAW ; STEPHEN MCMENNAMY ; STEVEN MCMENNAMY ; SUZUKO HISATA ; VLAD MOISE

Inventor(s): BELL RICHARD ATLANTA ; CRONIN JERRY ATLANTA ; HENSHAW ROBERT NEWNAN ; HISATA SUZUKO ATLANTA ; KROLL RUSSELL ; KROLL RUSSELL J ATLANTA ; MCMENNAMY STEPHAN ; MCMENNAMY

STEPHEN ATLANTA ; MCMENNAMY STEVEN ; MOISE VLAD MARIETTA ; PALERMO PHIL MARIETTA ;
RUSSELL J KROLL

Agent(s): BCF LLP; CHALK ANTHONY JOHN; GREENBLUM AND BERNSTEIN PLC; GRIFFITH HACK; HARRISON
GODDARD FOOTE; ORIENTAL INTELLECTUAL PROPERTY SERVICES CO; PATENTANWAELTE SEEMANN
AND PARTNER; REINHOLD COHN AND PARTNERS; SEYFARTH SHAW 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
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UG US UZ VC VN YU ZA ZM ZW

25) Family number: 30241121 (WO9619388 A1)

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Title: TAMPER PROOF CLOSURE

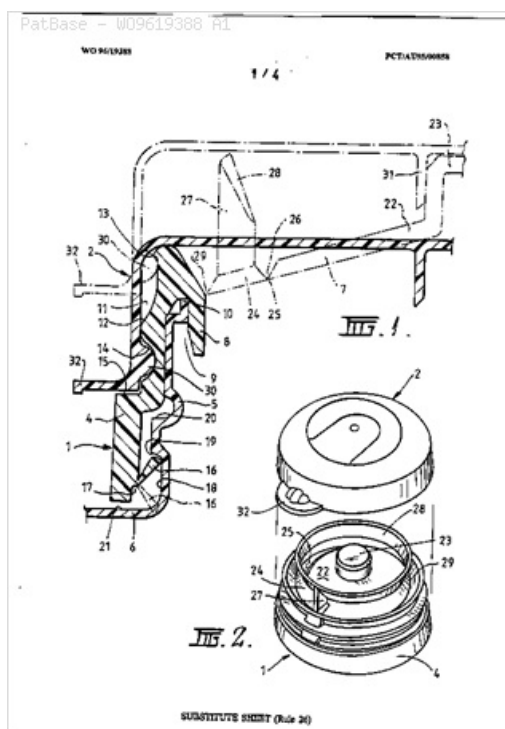
Abstract: A closure of plastics material for a container (54) is disclosed. The closure includes a cup-shaped portion (51) for seating within a neck (81) of a container (54) for sealing the container and a depending sleeve portion (52) which is frangibly connected to the cup-shaped portion (51) at its upper rim surface as shown at (53). An upstanding annular wall (59) of cup-shaped portion (51) and depending sleeve portion (52) define a space for resilient receipt of the neck (81) of container (54). Wall (59) includes on its external surface a bead (60) which, in the assembled position of the closure on a container, seats within the internal undercut (56). It will be appreciated that undercut (56) in conjunction with bead (60) provide for a sealing engagement between the closure and a container.

Classifications:

International (IPC 8-9): B65D39/00 B65D39/04 B65D43/02
B65D47/06 B65D47/10

International (IPC 1-7): B65D101/00 B65D39/04

CPC: B65D2401/25 B65D2543/00092 B65D2543/00296
B65D2543/00435 B65D2543/00509 B65D2543/00527
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Family:

Publication number	Publication date	Application number	Application date
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TH25405 A	19970529	TH19951003353	19951219
WO9619388 A1	19960627	WO1995AU00858	19951219

Priority:

AU1994PN00115 19941219 WO1995AU00858 19951219 AU19960043219 19951219

Probable Assignee: BAYLY DESIGN ASS PTY LTD

Assignee(s): (std) AMCOR LTD ; BAYLY DESIGN ASS PTY LTD ; BAYLY MARK SIMON ; BAYLY PETER KINGSLEY

Assignee(s): AMCOR LIMITED ; BAYLY DESIGN ASSOCIATES PTY LTD

Inventor(s): (std) BAYLY MARK SIMON ; BAYLY PETER KINGSLEY

Inventor(s): MARK SIMON BAYLY ; PETER KINGSLEY BAYLY

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
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