

Search query (17): PN=(US4984699 A OR US5738231 A OR CN1264674 A OR US6908013 BB OR WO02096771 A1 OR CN1318027 A OR US2005115915 AA OR WO04011347 A2 OR CN1741942 A OR WO04067387 A2 OR US2009289027 AA OR WO05049443 A1 OR WO06117505 A1 OR US2008105644 AA OR GB2450939 A1 OR US2011259844 AA OR WO09010722 A1 OR US2010170898 AA OR CN102076573 A OR US8439213 BB OR CN201334173 Y OR WO15113851 A1)

Results: 17

Search history

Search 1: TAC=((First 1w portion) (second 1w portion) weakness tamper) (Results 0)

Search 2: TAC=((First 1w portion) (second 1w portion) tamper) (Results 0)

Search 3: TAC=((First 1w portion) (second 1w portion) cap) (Results 0)

Search 4: TAC=((First 1w portion) (second 1w portion)) (Results 487)

Search 5: TAC=((First 1w component) (second 1w component)) and CPC=(B65D49/00) (Results 0)

Search 6: TAC=((First 1w component) (second 1w component)) (Results 227)

Search 7: TAC=((First 1w component) (second 1w component) cap) (Results 0)

Search 8: TAC=((First 1w element) (second 1w element)) (Results 136)

Search 9: TAC=((First 1w element) (second 1w element) cap) (Results 0)

Search 10: 4 and 6 (Results 0)

Search 11: 4 and 8 (Results 2)

Search 12: 6 and 8 (Results 0)

Search 13: DSC=(locking cap) (Results 3503)

Search 14: DSC=(locking cap hole) and CPC=(B65D49/04) (Results 0)

Search 15: DSC=(locking cap ratchet) (Results 2)

Search 16: PN=(wo2013113435) (Results 1)

Search 17: PN=(US4984699 A OR US5738231 A OR CN1264674 A OR US6908013 BB OR WO02096771 A1 OR CN1318027 A OR US2005115915 AA OR WO04011347 A2 OR CN1741942 A OR WO04067387 A2 OR US2009289027 AA OR WO05049443 A1 OR WO06117505 A1 OR US2008105644 AA OR GB2450939 A1 OR US2011259844 AA OR WO09010722 A1 OR US2010170898 AA OR CN102076573 A OR US8439213 BB OR CN201334173 Y OR WO15113851 A1) (Results 17)

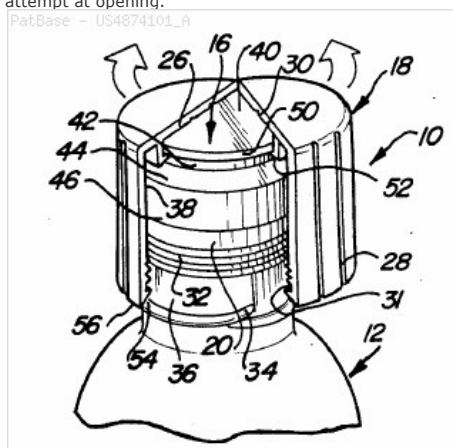
Abstract: Source: US4874101A A container and cover combination and method of assembling the same is disclosed. the container and cover combination include a container 12 having a neck portion 20 defining an opening 22 into the container 12. A removable cover 16 is fastened onto the neck portion 20. The cover assembly includes a **tamper** evident mechanism for indicating an attempted opening of the cover assembly. The **tamper** evident mechanism includes a substantially cup-shaped cap member 18 having a fractureable portion 30 and one way threads for **locking** the cap member 18 against unthreading from the neck portion 20 when the cap member 18 is rotated in one direction relative to the neck portion 20 and for forcing the cap member 18 further onto the neck portion to fracture the fractureable portion 30 when the cap member 18 is rotated in the opposite direction relative to the neck portion 20 thereby evidencing the attempt at opening.

International (IPC 8-9): B65D51/18 B65D55/02 (Advanced/Invention);
B65D51/18 B65D55/02 (Core/Invention)

CPC: B65D51/18 B65D55/02 B65D2225

European: B65D51/18 B65D55/02 L65D251/00Y2D L65D251/00Y6D

US: 215/231 215/251 215/253 53/490



Publication number	Publication date	Application number	Application date
US4874101 A	19891017	US19880201329	19880527
US4984699 A	19910115	US19890381206	19890718

US19870052072 19870521 US19880201329 19880527 US19890201329 19890527
US19890381206 19890718

Assignee(s): (std): ZALUT GREGORY J

Inventor(s): (std): ZALUT GREGORY J

Title: **Tamper** indicating threaded **closure**-container package

Abstract: Source: US5738231A A threaded **tamper** indicating **closure**-container package provides an indication of initial opening by how far the **closure** threads onto the container neck. In the original package condition the bottom of the **closure** skirt is adjacent a shoulder on the container. After the package has been initially opened and the **closure** reapplied, the bottom of the **closure** skirt is noticeably above the container shoulder. A word message such as "opened" can also be exposed on the container neck between the shoulder and the bottom of the **closure** skirt when the **closure** is reapplied.

Classifications:

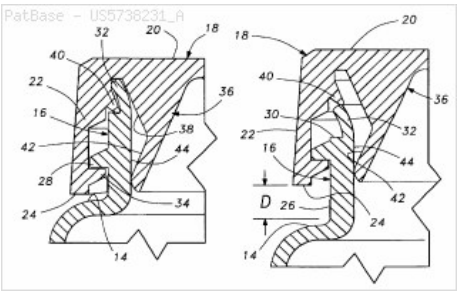
International (IPC 8-9): B65D55/02 (Advanced/Invention);
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D1/02

CPC: B65D55/02

European: B65D55/02

US: 215/230 215/344 215/44



Family:

Publication number	Publication date	Application number	Application date
US5738231 A	19980414	US19960635371	19960419

Priority:

US19960635371 19960419

Probable Assignee: BERRY PLASTICS CORP

Assignee(s): (std): REXAM CLOSURES INC

Assignee(s): REXAM CLOSURES LLC ; BERRY PLASTICS CORP

Inventor(s): (std): MONTGOMERY GARY V

Title: Anti-fraud **closure** device

Abstract: Source: US6454126B An anti-fraud **closure** device for providing evidence of the initial opening of a container for liquids having a pouring body, a connecting element, a mixing element for connecting the pouring body to the neck of the container, a removable cap and an outer cap disposed over and housing a cap. The device further includes a sleeve, a tubular element inserted in the sleeve and connected thereto for partial angular movement and for axial movement between a first and a second position and an element for indicating that the initial opening of the container has taken place.

Classifications:

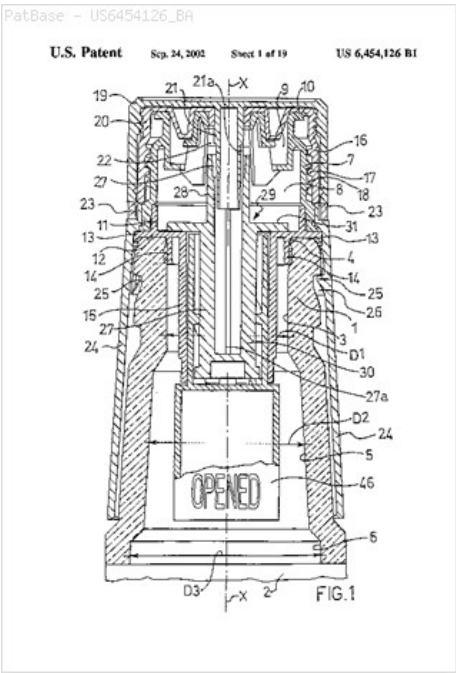
International (IPC 8-9): B65D41/34 B65D47/12 B65D47/24 B65D49/00 B65D49/04 B65D55/02 (Advanced/Invention); B65D55/02 (Advanced/Non-invention)

International (IPC 1-7): B65D49/00 B65D55/02 B67D5/06

CPC: B65D41/3447 B65D47/123 B65D47/246 B65D49/00 B65D49/04 B65D55/026

European: B65D41/34D1 B65D47/12B1 B65D47/24C1 B65D49/00 B65D49/04 B65D55/02G

US: 215/230 215/308 222/23 222/529 222/530



Family:

Publication number	Publication date	Application number	Application date
AT232176 E	20030215	AT19990938286T	19990719
AU199952846 A1	20000221	AU19990052846	19990719
AU199952846 A5	20000221	AU19990052846	19990719
CN1221443 C	20051005	CN19998009244	19990719
CN1318027 A	20011017	CN19998009244	19990719
CO4950581 A1	20000901	CO19990047642	19990728
DE69905254 D1	20030313	DE19996005254	19990719
EP0985607 A1	20000315	EP19980830457	19980728
EP1102710 A1	20010530	EP19990938286	19990719
EP1102710 B1	20030205	EP19990938286	19990719
ES2188209 T3	20030616	ES19990938286T	19990719
MXPA01000996 A1	20020424	MX2001PA00996	19990719
PL197488 B1	20080430	PL19990345694	19990719
PL345694 A1	20020102	PL19990345694	19990719
RU2001105531 A	20030110	RU20010105531	19990719
RU2201385 C2	20030327	RU20010105531	19990719
US6454126 BA	20020924	US20010744738	20010402
WO0006461 A1	20000210	WO1999EP05127	19990719

Priority:

EP19980830457 19980728 EP19990938286 19990719 WO1999EP05127 19990719

Probable Assignee: GUALA CLOSURES SPA

Assignee(s): (std): BATTEGAZZORE PIERO ; GUALA CLOSURES S P A ; GUALA KLOUZHURS S P A ; GUALA CLOSURES SPA ; GUALA SPA

Assignee(s): GUALA KLOUZHURS S.P.A. ; GUALA S P A ; GUALA CLOSURES S P A ALESSANDRIA

Inventor(s): (std): BATTEGAZZORE PIERO ; PIERO BATTEGAZZORE ; BATTEGADZORE P ERO

Inventor(s): BATTEGADZORE P'ERO

Agent(s): ERNESTO CAVELIER

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

Title: Antiforge bottle with anti-reversal turning-down cap

Abstract: Source: CN1264674A An antiforge bottle with anti-reverse turn-down cap is composed of bottle mouth, cap and sealing cap. The top of cap is a separable structure. The cap and bottle mouth is matched by spiral thread andan anti-reverse rachet-pawl mechanism is between them. Its turning direction is same as the spiral thread. On opening it, the cap is turned down and the bottle mouth passes through the cap. Its advantages are simple structure and high antiforge effect.

Classifications:

International (IPC 8-9): B65D41/34 B65D49/12 (Advanced/Invention);
B65D41/34 B65D49/00 (Core/Invention)

International (IPC 1-7): B65D41/34 B65D49/12

Family:

Publication number	Publication date	Application number	Application date
CN1264674 A	20000830	CN19991002032	19990222

Priority:
CN19991002032 19990222

Probable Assignee: GUO YONGJUN

Assignee(s): (std): GUO YONGJUN

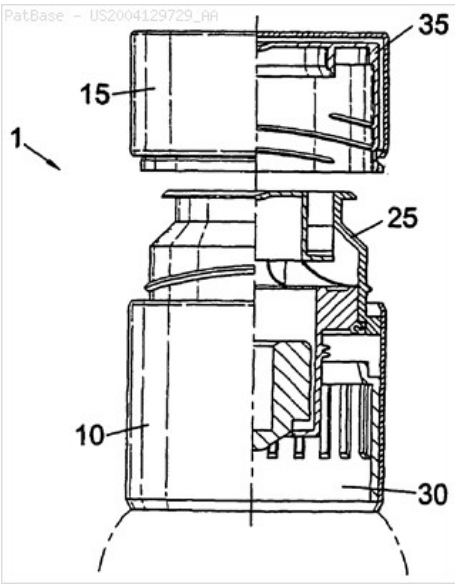
Inventor(s): (std): GUO YONGJUN

Inventor(s): YONGJUN GUO

Title: TAMPER-EVIDENT DEVICE

Abstract: Source: US2004129729A There is disclosed a tamper-evident device for a closure assembly adapted to be applied to a mouth of a container, for example, a neck of a bottle. There has been identified a need for an improved tamper-evident device which does not have any parts which are removed upon initial opening and which are liable to be reattached by counterfeits or the like. Accordingly the present invention provides a tamper-evident device comprising a sleeve member which comprises a first portion associated with a second portion by means of a frangible portion therebetween, and wherein said first portion is adapted to be applied to a mouth and neck portion of a container, and said second portion is associated with a container closure member, and wherein an initial container opening operation causes said frangible portion to fracture or break such that when the container is reclosed said first and second portions are located in a spaced apart relationship to one another.

Classifications:
International (IPC 8-9): B65D41/62 B65D49/04 B65D55/08 (Advanced/Invention); B65D41/00 B65D49/00 B65D55/02 (Core/Invention)
International (IPC 1-7): B65D49/02 B65D49/04 B65D55/08 B67B5/00 B67D5/32
CPC: B65D41/62 B65D49/04
European: B65D41/62 B65D49/04
US: 215/251 215/253 215/28 220/268 220/276 222/153.06 222/153.1 222/495 222/546



Family:

Publication number	Publication date	Application number	Application date
AT305420 E	20051015	AT20020735580T	20020522
BRPI0210018 A	20040810	BR2002PI10018	20020522
BRPI0210018 B1	20131224	BR2002PI10018	20020522
CN1270941 C	20060823	CN20028010611	20020522
CN1524053 A	20040825	CN20028010611	20020522
DE60206374 C5	20141030	DE20026006374	20020522
DE60206374 D1	20060209	DE20026006374	20020522
DE60206374 T2	20060713	DE20026006374T	20020522
EA005536 B1	20050428	EA20030001298	20020522
EP1392575 A1	20040303	EP20020735580	20020522
EP1392575 B1	20050928	EP20020735580	20020522
ES2249582 T3	20060401	ES20020735580T	20020522
GB200112726 A0	20010718	GB20010012726	20010525
GB200211569 A0	20020626	GB20020011569	20020521
GB2377699 A1	20030122	GB20020011569	20020521
GB2377699 B2	20050105	GB20020011569	20020521
IN01917DN2003 A	20051216	IN2003DN01917	20031114
IN257060 B	20130830	IN2003DN01917	20031114
MXPA03010696 A1	20050307	MX2003PA10696	20020522
PL199890 B1	20081128	PL20020367335	20020522
PL367335 A1	20050221	PL20020367335	20020522
US2004129729 AA	20040708	US20030719232	20031120
US6908013 BB	20050621	US20030719232	20031120
WO02096771 A1	20021205	WO2002GB02404	20020522

Priority:
GB20010012726 20010525 WO2002GB02404 20020522

Probable Assignee: GUALA CLOSURES PATENTS BV

Assignee(s): (std): GUALA CLOSURES PATENTS BV ; GUALA CLOSURES U K LTD ; MONTGOMERY DANIEL AND SON LTD ; THOMSON DAVID WILLIAM ; MEZZADRA EGIDIO ; SON LTD ; DANIEL MONTGOMERY AND AMP ; DANIEL MONTGOMERY AND SON LTD

Assignee(s): DANIEL MONTGOMERY AND SON LTD KIRKINTILLOCH ; GUALA CLOSURES INT BV ; DANIEL MONTGOMERY AND ; GUALA CLOSURES UK LTD ; GUALA CLOSURES U K LTD KIRKINTILLOCH

Inventor(s): (std): EGIDIO MEZZADRA ; EGIDIO THOMSON DAVID WILLIAM M ; MEZZADRA EGIDIO ; MEZZADRA EGIDIO G ; MEZZADRA EGIDIO GLOBAL CAP ; THOMPSON DAVID WILLIAM ; THOMSON DAVID WILLIAM ; THOMSON DAVID WILLIAM MEZZADRA EGIDIO ; THOMSON WILLIAM ; THOMSON DAVID

Inventor(s): DAVID WILLIAM THOMSON

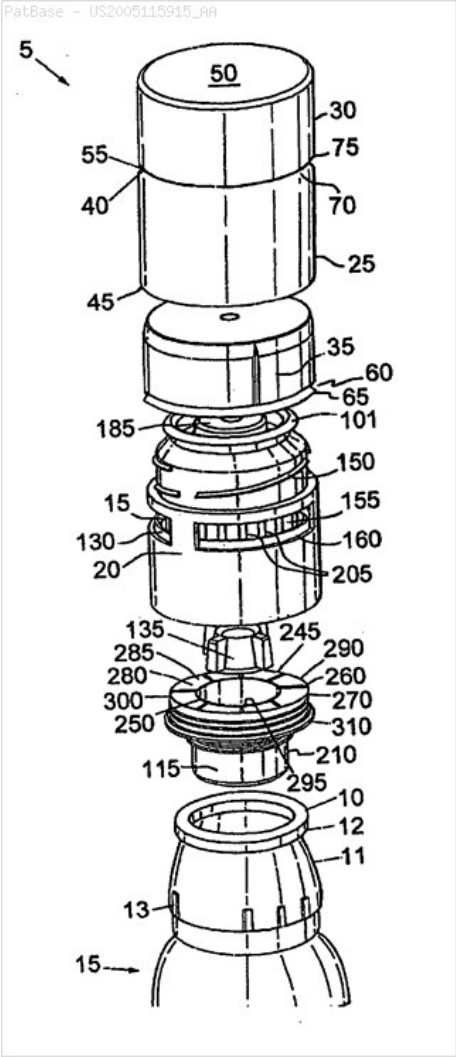
Agent(s): NOTARO AND MICHALOS PC

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 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

Title: LIQUID CONTAINER **CLOSURE** ASSEMBLY

Abstract: Source: US2005115915A A **closure** assembly for a mouth and neck portion of a container for liquid has a sleeve adapted to lie substantially concentrically with respect to the mouth and provided with a mechanism for fixing the sleeve on the container. A first outer sleeve is coaxially mounted over the sleeve and a second outer sleeve separate from the first outer sleeve and substantially tight fit with a container **closure** member. The first and second outer sleeves are axially aligned and have respective initially adjacent portions. A mechanism is provided for spacing apart the initially adjacent portions of the first and second outer sleeves upon reclosure of the assembly after an initial opening of the container.

Classifications:
International (IPC 8-9): B65D39/00 B65D41/00 B65D41/04 B65D41/34 B65D41/62 B65D43/00 B65D47/00 B65D49/02 B65D49/04 B65D49/06 B65D51/00 B65D55/08 (Advanced/Invention); B65D41/34 B65D41/62 B65D49/02 B65D49/06 (Advanced/Non-invention); B65D39/00 B65D41/00 B65D41/04 B65D43/00 B65D47/00 B65D49/00 B65D51/00 B65D55/02 (Core/Invention)
International (IPC 1-7): B65D39/00 B65D41/00 B65D41/34 B65D41/62 B65D43/00 B65D47/00 B65D49/02 B65D49/06 B65D51/00 B65D55/08
CPC: B65D41/62 B65D49/06 B65D55/0845 B65D49/04
European: B65D41/62 B65D49/04 B65D49/06 B65D55/08B2A
US: 215/21 215/252 215/258 215/277



Family:

Publication number	Publication date	Application number	Application date
AT327179 E	20060615	AT20030735804T	20030521
AU2003236886 AA	20031222	AU20030236886	20030521
AU2003236886 BB	20090604	AU20030236886	20030521
BRPI0311671 A	20080304	BR2003PI11671	20030521
CN100340459 C	20071003	CN20038013579	20030521
CN1659084 A	20050824	CN20038013579	20030521
DE60305490 D1	20060629	DE20036005490	20030521
DE60305490 T2	20061102	DE20036005490T	20030521
DE60305490 T3	20110505	DE20036005490T	20030521
EA006145 B1	20051027	EA20040001616	20030521
EP1511677 A1	20050309	EP20030735804	20030521
EP1511677 B1	20060524	EP20030735804	20030521
EP1511677 B2	20101006	EP20030735804	20030521
ES2261945 T3	20061116	ES20030735804T	20030521
ES2261945 T5	20110217	ES20030735804T	20030521
GB200213257 A0	20020717	GB20020013257	20020610
GB2390086 A1	20031231	GB20020013257	20020610
IN03107CN2004 A	20060217	IN2004CN03107	20041231
IN259691 B	20140328	IN2004CN03107	20041231
KR100985342 B1	20101004	KR20047020052	20041209
KR20050028918 A	20050323	KR20047020052	20041209
MXPA04012131 A1	20050524	MX2004PA12131	20030521
PL200301 B1	20081231	PL20030372495	20030521
PL372495 A1	20050725	PL20030372495	20030521
US2005115915 AA	20050602	US20040005198	20041206
US7398890 BB	20080715	US20040005198	20041206
WO03104100 A1	20031218	WO2003GB02185	20030521

Priority:
GB20020013257 20020610 US20040005198 20041206 WO2003GB02185 20030521
Probable Assignee: GUALA CLOSURES PATENTS BV

Assignee(s): (std): DANIEL MONTGOMERY AND AMP ; DANIEL MONTGOMERY AND SON LTD ; MONTGOMERY DANIEL AND SON LTD ; THOMSON DAVID WILLIAM ; SON LTD ; GUALA CLOSURES U K LTD ; GUALA CLOSURES PATENTS BV ; GUALA CLOSURES PATENTS B V

Assignee(s): GUALA CLOSURES INT BV ; GUALA CLOSURES U K LTD KIRKINTILLOCH ; GUALA CLOSURES U K LIMITED ; SON LIMITED ; GUALA CLOSURES UK LTD ; DANIEL MONTGOMERY AND SON LIMITED ; AMP ; DANIEL MONTGOMERY AMP AMP ; DANIEL MONTGOMERY AND

Inventor(s): (std): DAVID WILLIAM THOMSON ; THOMPSON DAVID WILLIAM ; THOMSON DAVID W ; THOMSON DAVID W DANIEL MONTGOM ; THOMSON DAVID WILLIAM ; WILLIAM THOMSON DAVID ; THOMSON DAVID W DANIEL

Inventor(s): AND THOMSON DAVID W DANIEL MONTGOMERY ; THOMSON DAVID W DANIEL MONTGOMERY and ; THOMSON ; THOMSON DAVID W DANIEL MONTGOMERY AND SON LIMITED ; THOMSON DAVID

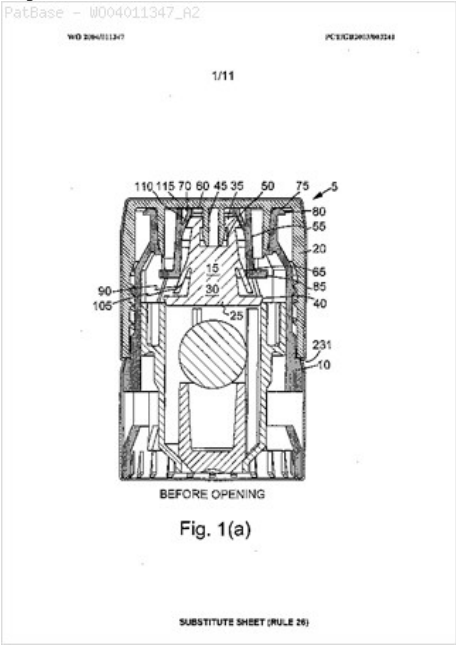
Agent(s): PHILLIPS ORMONDE FITZPATRICK; PERANI AURELIO; NOTARO AND MICHALOS; NOTARO AND MICHALOS PC

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

Title: LIQUID CONTAINER **CLOSURE** ASSEMBLY

Abstract: There is disclosed an improved **closure** assembly (5) adapted to be applied to a mouth and neck portion of a container (e.g. for liquid) such as a neck of a bottle. Known container **closure** assemblies suffer from a number of problems, e.g. simplicity of manufacture and provision of **tamper** evidence. Accordingly, the **closure** assembly (5) (or **tamper**-evident device) of the present invention comprises: a first body part (10); a **tamper**-evidence member or **lock** means (15); and a container **closure** member (20), wherein prior to initial opening the **tamper**-evident member or **lock** means (15) is in a first position such that the first body 15 part (10) and the container **closure** member (20) are disposed in a first relation to one another, and initial opening of the **closure** assembly (5) causes the **tamper**-evident member or **lock** means (15) to move a second position. Upon reclosure the **lock** means (15) causes the first body part (10) and the container **closure** member (20) to be disposed in a second (spaced) relation to one another, thereby evidencing opening and reclosure.

Classifications:
International (IPC 8-9): B65D49/04 B65D55/02 (Advanced/Invention);
B65D49/00 B65D55/02 (Core/Invention)
International (IPC 1-7): B65D49/04 B65D55/02
CPC: B65D49/04 B65D55/02
European: B65D49/04 B65D55/02



Family:

Publication number	Publication date	Application number	Application date
AU2003254489 AA	20040216	AU20030254489	20030718
CN1323908 C	20070704	CN20038018283	20030718
CN1671604 A	20050921	CN20038018283	20030718
EA006807 B1	20060428	EA20050000278	20030718
GB200220554 A0	20021009	GB20020020554	20020731
MXPA05000956 A1	20050912	MX2005PA00956	20030718
WO04011347 A2	20040205	WO2003GB03241	20030718
WO04011347 A3	20040415	WO2003GB03241	20030718

Priority:
GB20020020554 20020731 WO2003GB03241 20030718

Probable Assignee: MONTGOMERY DANIEL AND SON LTD
Assignee(s): (std): DANIEL MONTGOMERY AND SON LTD ; GUALA CLOSURES U K LTD ; MONTGOMERY DANIEL AND SON CO LTD ; MONTGOMERY DANIEL AND SON LTD ; THOMSON DAVID WILLIAM
Assignee(s): DANIEL MONTGOMERY AND SON LIMITED ; MONTGOMERY DANIEL AND SON CO ; GUALA CLOSURES U K LIMITED
Inventor(s): (std): WILLIAM THOMSON DAVID ; THOMSON DAVID WILLIAM ; THOMPSON DADID WILLIAM ; DAVID WILLIAM THOMSON
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 US UZ VC VN YU ZA ZM ZW

Title: MEANS FOR SEALING BOTTLE CAPS WITH EVIDENCE OF OPENING

Abstract: Source: US2009289027A The present invention consists of an improvement made on the patent "Means for sealing bottle caps with evidence of opening" with Spanish application number P200202864, which made use of a concealed tongue that was revealed after the first opening without allowing to recover the original situation. The present invention maintains a connection between the top and bottom segments of the capsule, preventing their rotation relative to each other and providing an audible evidence of opening.

Classifications:

International (IPC 8-9): B65D39/00 B65D41/00 B65D41/34 B65D41/62 B65D49/00 B65D49/02 B65D49/04 B65D50/04 B65D51/20 B65D53/00 B65D53/02 (Advanced/Invention);

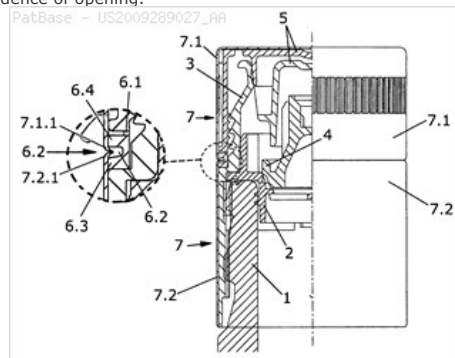
B65D41/00 B65D41/34 B65D49/00 B65D50/00 B65D53/00 (Core/Invention)

International (IPC 1-7): B65D41/34 B65D49/04 B65D50/04 B65D51/20

CPC: B65D49/04 B65D2101/0023 B65D2101/0084 B65D41/3457 B65D51/20 B65D41/348 B65D41/62 B65D51/18 B65D55/028 B65D2251/0015 B65D2251/0078 B65D41/3452

European: B65D41/34D1A B65D41/34D3 B65D41/34F B65D41/62 B65D49/04 B65D51/18 B65D51/20 B65D55/02J L65D101/00A3 L65D101/00A6 L65D251/00Y2D L65D251/00Y6D

US: 215/21 215/250 215/251 215/252 215/253 215/256 215/329 215/352



Family:

Publication number	Publication date	Application number	Application date
AT345283 E	20061215	AT20030780176T	20031212
AT515454 E	20110715	AT20070823020T	20071026
AU2003288277 AA	20040709	AU20030288277	20031212
AU2003288277 BB	20070614	AU20030288277	20031212
BRPI0316573 A	20051004	BR2003PI16573	20031212
BRPI0316573 B1	20151222	BR2003PI16573	20031212
BRPI0716329 A2	20140304	BR2007PI16329	20071026
CN100343136 C	20071017	CN200380106047	20031212
CN101573274 A	20091104	CN200780039886	20071026
CN1726154 A	20060125	CN200380106047	20031212
CO5690626 A2	20061031	CO20050053166	20050601
CU23799 A3	20120315	CU20090000063	20090422
DE602007015689 D1	20110901	DE200760015689T	20071026
DE60309751 D1	20061228	DE20036009751	20031212
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IN00988KN2005 A	20060623	IN2005KN00988	20050526
IN02630DN2009 A	20090619	IN2009DN02630	20090422
IN222941 B	20080829	IN2005KN00988	20050526
MX20090004455 A1	20090909	MX20090004455	20071026
MXPA05005980 A1	20050823	MX2005PA05980	20031212
RU2009119428 A	20101210	RU20090119428	20071026
RU2427514 C2	20110827	RU20090119428	20071026
US2009289027 AA	20091126	US20070446986	20071026
US8181803 BB	20120522	US20070446986	20071026
WO04054890 A1	20040701	WO2003ES00627	20031212
WO08049951 A1	20080502	WO2007ES00614	20071026
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WO08049951 C1	20081127	WO2007ES00614	20071026

Priority:

ES20020002864 20021213 WO2003ES00627 20031212 ES20060002732 20061026
 WO2007ES00614 20071026 EP20070823020 20071026

Probable Assignee: COMPANIA DE TAPONES IRRELLENABLES SA

Assignee(s): (std): CIA DE TAPONES IRRELLENABLES SA ; CIA TAPONES IRRELLENABLES S A ; TORRENT GARCIA DAVID ; TORRENT ; CIA DE TAPONES IRRELLENABLES S ; CIA DE TAPONES IRRELLENABLES S A ; TAPONES IRRELLENABLES ; TORRENT ORTEGA DAVID ; KOMPANIA DE TAPONES IRREJENABLES S A

Assignee(s): COMPANIA DE TAPONES IRRELLENABLES SA ; CIA DE TAPONES IRRELLENABLES S TORRENT GARCIA DAVI ; COMPANIA DE TAPONES IRRELLENABLES S A

Inventor(s): (std): DAVID TORRENT GARCIA ; DAVID TORRENT ORTEGA ; GARCIA DAVID TORRENT ; ORTEGA DAVID TORRENT ; TORRENT GARCIA DAVID ; TORRENT ORTEGA DAVID

Agent(s): SPRUSON AND FERGUSON; MARTIN SANTOS VICTORIA SOFIA; ABG PATENTES S L; DENNIS G LAPOINTE LAPOINTE LAW GROUP PL; MOORE AND VAN ALLEN PLLC; ANDREW D; TRISTAN A; ESTEBAN PEREZ SERRANO Mª ISABEL

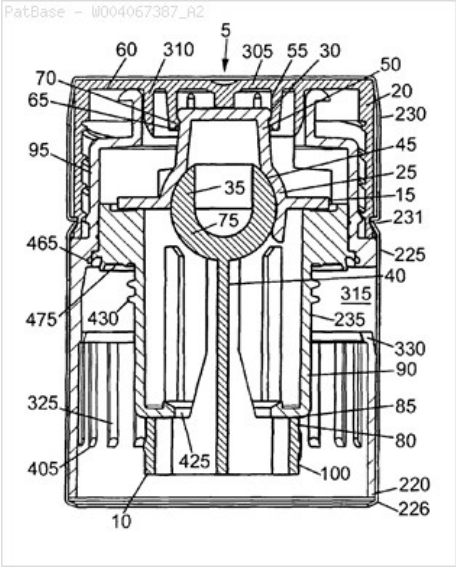
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Title: LIQUID CONTAINER **CLOSURE** ASSEMBLY

Abstract: There is disclosed a **closure** assembly (5; 5a; 5b) or **tamper**-proof device adapted to be applied to a mouth of a container (e.g. for liquid), such as a neck of a bottle. There is a need for such **closure** assemblies (5; 5a; 5b) to provide **tamper**-evidence, e.g. indication of opening, and beneficially to also provide non-refilling means. Accordingly, the invention provides a **closure** assembly (5; 5a; 5b) comprising: a first member or **tamper** indication means (10a; 10b; 10c), and a container **closure** member (20; 20a; 20b) are retained in association with one another by retaining means, and wherein further initial opening of the **closure** assembly (5; 5a; 5b) causes release of the retaining means which causes the first member (10; 10a; 10b) thereafter to act as a **valve** member.

Classifications:

International (IPC 8-9): B65D41/62 B65D49/00 B65D49/02 B65D49/04 B65D49/06 B65D49/10 B65D55/02 B65D55/08 (Advanced/Invention); B65D49/00 B65D49/02 (Advanced/Non-invention); B65D41/00 B65D49/00 B65D55/02 (Core/Invention)
International (IPC 1-7): B65D0/00 B65D49/00 B65D49/02 B65D49/04 B65D49/10
CPC: B65D49/04 B65D55/026 B65D55/0845
European: B65D49/04 B65D55/02G B65D55/08B2A



Family:

Publication number	Publication date	Application number	Application date
AT370894 E	20070915	AT20040704267T	20040122
BRPI0406972 A	20060110	BR2004PI06972	20040122
CN100355632 C	20071219	CN200480002509	20040122
CN1741942 A	20060301	CN200480002509	20040122
DE602004008423 D1	20071004	DE200460008423T	20040122
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EA007834 B1	20070227	EA20050001177	20040122
EP1585684 A2	20051019	EP20040704267	20040122
EP1585684 B1	20070822	EP20040704267	20040122
ES2294459 T3	20080401	ES20040704267T	20040122
GB200301818 A0	20030226	GB20030001818	20030125
GB200401356 A0	20040225	GB20040001356	20040122
GB2399339 A1	20040915	GB20040001356	20040122
KR101070559 B1	20111005	KR20057013620	20040122
KR20050085984 A	20050829	KR20057013620	20040122
MXPA05007720 A1	20050930	MX2005PA07720	20040122
UA80858 C2	20071112	UA20050008270	20040122
WO04067387 A2	20040812	WO2004GB00189	20040122
WO04067387 A3	20041118	WO2004GB00189	20040122

Priority:

GB20030001818 20030125 WO2004GB00189 20040122

Probable Assignee: GUALA CLOSURES PATENTS BV

Assignee(s): (std): GUALA CLOSURES PATENTS B V ; GUALA CLOSURES PATENTS BV ; GUALA CLOSURES U K LTD ; JOHNSON STUART ; THOMSON DAVID WILLIAM ; MONTGOMERY DANIEL AND SON LTD

Assignee(s): GUALA CLOSURES U K LIMITED ; DANIEL MONTGOMERY AND SON LIMITED ; DANIEL MONTGOMERY AND SON LTD

Inventor(s): (std): WILLIAM THOMSON DAVID ; THOMSON DAVID WILLIAM JOHNSON STUART ; THOMSON DAVID WILLIAM ; THOMSON DAVID W ; THOMPSON DAVID WILLIAM ; STUART THOMSON DAVID WILLIAM J ; STUART JOHNSON ; JOHNSON STUART ; JOHNSON STUART DANIEL MONTGOME

Inventor(s): JOHNSON STUART DANIEL ; DAVID WILLIAM THOMSON

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

Title: **TAMPER** EVIDENT **CLOSURE**

Abstract: Source: US2007090110A A **tamper**-evident **closure** (10) for a container (20) is provided. The **closure** (10) comprises a first portion (25) including inner (35) and outer (45) parts, and a second portion (30). The outer part (45) is movable relative to the inner part (35) from a first position in which the outer part (45) is immediately adjacent the second portion (30) to a second position in which there is an empty unobstructed gap (G) therebetween. The inner (35) and outer (45) parts are adapted to become irreversibly **locked** in the second position so that the outer part (45) cannot be moved back to the first position to close the gap (G). A combination of such a **closure** (110) with an in-bore filament (100) connectable to a container (120) is also provided.

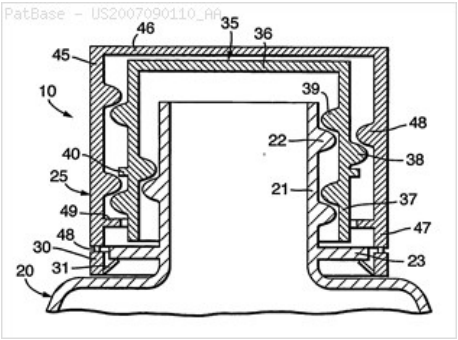
Classifications:

International (IPC 8-9): B65D39/00 B65D41/00 B65D41/04 B65D41/34 B65D41/62 B65D43/00 B65D43/18 B65D47/00 B65D49/02 B65D49/06 B65D50/04 B65D51/00 B65D51/18 B65D51/20 B65D55/02 (Advanced/Invention); B65D41/34 B65D50/00 B65D50/04 (Core/Invention); B65D55/02 (Core/Non-invention); B65D (Subclass/Invention)

International (IPC 1-7): B65D41/04 B65D41/34 B65D50/04 B65D51/18 B65D55/02 **CPC:** B65D41/0478 B65D41/0492 B65D41/3428 B65D49/06 B65D50/041 B65D2251/0015 B65D2251/0078

European: B65D41/04E1 B65D41/04G B65D41/34C1 B65D49/06 B65D50/04B L65D251/00Y2D L65D251/00Y6D

US: 215/21 215/252 215/258 215/277 220/254.1 220/254.8 220/254.9 220/254.900 220/256.1 220/257.1 220/259.3 220/259.4 220/290



Family:

Publication number	Publication date	Application number	Application date
AT387382 E	20080315	AT20040790841T	20041026
BRPI0416014 A	20070102	BR2004PI16014	20041026
DE602004012149 D1	20080410	DE200460012149T	20041026
DE602004012149 T2	20090312	DE200460012149T	20041026
EP1694576 A1	20060830	EP20040790841	20041026
EP1694576 B1	20080227	EP20040790841	20041026
ES2302040 T3	20080701	ES20040790841T	20041026
HK1094438 A1	20080613	HK20070101359	20070205
HK1094438 A3	20070330	HK20070101359	20070205
MXPA06004684 A1	20061214	MX2006PA04684	20041026
MY137973 A	20090430	MY20040004392	20041025
PT1694576 T	20080527	PT20040790841T	20041026
SI1694576 T1	20080831	SI20040030703T	20041026
TH39056 B	20140212	TH20041004179	20041026
TH70496 A	20050907	TH20041004179	20041026
TW200519000 A	20050616	TW20040132373	20041026
TWI331118 B	20101001	TW20040132373	20041026
US2007090110 AA	20070426	US20040577575	20041026
US2013206765 AA	20130815	US20130828642	20130314
US8522991 BB	20130903	US20040577575	20041026
US9242768 BB	20160126	US20130828642	20130314
WO05049443 A1	20050602	WO2004EP12056	20041026

Priority:

EP20030257261 20031031 EP20040790841 20041026 WO2004EP12056 20041026
US20060577575 20060905 US20130828642 20130314

Probable Assignee: OBRIST CLOSURES SWITZERLAND GMBH

Assignee(s): (std): CROWN PACKAGING TECHNOLOGY INC ; CROWN PACKAGING UK PLC ; MCCLUSKIE STEVEN A ; MCCLUSKIE STEVEN ALLEN ; MCIVOR CHARLES A ; MCIVOR CHARLES ANTHONY ; RAMSEY CHRISTOPHER ; SKELTON STEVEN ANDREW ; SKELTON STEVEN A ; OBRIST CLOSURES SWITZERLAND

Assignee(s): OBRIST CLOSURES SWITZERLAND GMBHCH ; OBRIST CLOSURES SWITZERLAND GMBH

Inventor(s): (std): ALLEN MCCLUSKIE STEVEN ; ANDREW SKELTON STEVEN ; ANTHONY MCIVOR CHARLES ; MCCLUSKIE STEVEN A ; MCCLUSKIE STEVEN ALLAN ; MCCLUSKIE STEVEN ALLEN ; MCIVOR CHARLES A ; MCIVOR CHARLES ANTHONY ; MCLVOR CHARLES ANTHONY ; RAMSEY CHRISTOPHER ; RAMSEY CHRISTOPHER PAUL ; SKELTON STEVEN A ; SKELTON STEVEN ANDREW ; CHRISTOPHER RAMSEY ; STEVEN ALLEN MCCLUSKIE

Inventor(s): STEVEN ANDREW SKELTON ; MCCLUSKIE STEVEN ; STEVEN ALLAN MCCLUSKIE ; SKELTON STEVEN ; MCIVOR CHARLES ; CHARLES ANTHONY MCIVOR ; CHRISTOPHER PAUL RAMSEY

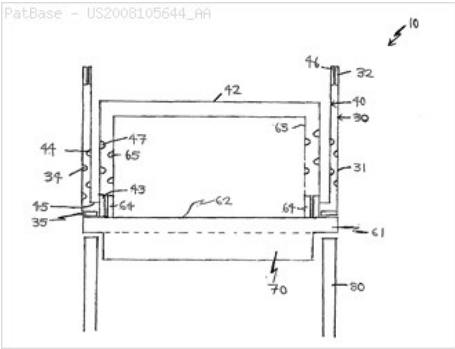
Agent(s): GREENWOOD MATTHEW DAVID ET AL; KNOBLE YOSHIDA AND DUNLEAVY; BRADLEY ARANT BOULT CUMMINGS LLP; THOMAS G

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

Title: **TAMPER**-EVIDENT **CLOSURE**

Abstract: Source: US2008105644A A **tamper**-evident **closure** for a container, the **closure** including a first portion including inner and outer parts, and a second portion, wherein the outer part is movable relative to the inner part from a first position in which the outer part is immediately adjacent the second portion to a second position in which there is an unobstructed gap therebetween, and wherein the inner and outer parts are adapted to become irreversibly **locked** in the second position so that the outer part cannot be moved back to the first position to close the gap, wherein means are provided to prevent the inner part from moving relative to the second portion until the outer part has reached the second position.

Classifications:
International (IPC 8-9): B65D55/02 (Advanced/Invention);
B65D55/02 (Advanced/Non-invention);
B65D55/02 (Core/Invention)
International (IPC 1-7): B65D55/02
CPC: B65D55/022 B65D55/026 B65D2101/0084
European: B65D55/02D B65D55/02G L65D101/00A6
US: 215/316



Family:

Publication number	Publication date	Application number	Application date
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BRPI0611178 A2	20100817	BR2006PI11178	20060418
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CN101166675 A	20080423	CN200680014684	20060418
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EP1874649 A1	20080109	EP20060726771	20060418
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KR20070122515 A	20071231	KR20077024896	20071029
MX2007013259 A1	20080121	MX20070013259	20060418
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RU2388673 C2	20100510	RU20070144191	20060418
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WO06117505 A1	20061109	WO2006GB01372	20060418

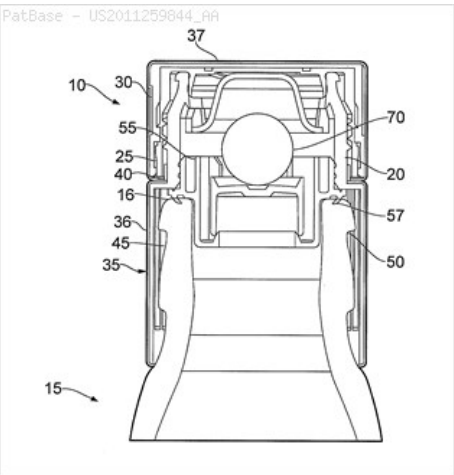
Priority:
EP20050270012 20050429 EP20060726771 20060418 WO2006GB01372 20060418

Probable Assignee: OBRIST CLOSURES SWITZERLAND GMBH
Assignee(s): (std): DOUGLAS MARCUS H L ; DOUGLAS MARCUS HAMILTON LLOYD ; NOTT PETER ; OBRIST CLOSURES SWITZERLAND ; OBRIST KLOUZZHERZ SVITZERLAND G
Assignee(s): OBRIST CLOSURES SWITZERLAND GMBH ; OBRIST CLOSURES SWITZERLAND GM ; OBRIST KLOUZZHERZ SVITZERLAND GMBKH
Inventor(s): (std): DOUGLAS MARCUS ; DOUGLAS MARCUS HAMILTON LLOYD ; NOTT PETER ; DOUGLAS MARCUS H L ; PETER NOTT ; NOTT PITER ; DUGLAS MARKUS KHEHMILTON LLOJD
Inventor(s): MARCUS HAMILTON LLOYD DOUGLAS ; DOUGLAS MARCUS HL ; DOUGLAS MARCUS HAMILTON LLOYD STIRLING
Agent(s): GREENWOOD MATTHEW DAVID ET AL; GREENWOOD MATTHEW DAVID; LACKENBACH SIEGEL LLP
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: **TAMPER**-EVIDENT **CLOSURE**

Abstract: Source: US2011259844A A **tamper**-evident **closure** for a container is provided. The **closure** comprises a first portion including inner and outer parts, and a second portion. The outer part is movable relative to the inner part from a first position in which at least part of the first and second portions are adjacent each other, to a second position in which there is a gap therebetween. The first portion comprises **locking** means for irreversibly **locking** the **closure** in the second position upon first opening so that the gap cannot be closed. The outer part includes a top plate and at least part of the **locking** means is carried on or by the plate.

Classifications:
International (IPC 8-9): B65D41/34 B65D41/38 B65D47/02 B65D49/00 B65D49/02 B65D49/04 B65D51/20 B65D51/24 B65D55/02 (Advanced/Invention); B65D41/34 B65D47/00 B65D49/00 B65D49/02 B65D51/24 B65D55/02 (Core/Invention); B65D (Subclass/Invention)
International (IPC 1-7): B65D55/02
CPC: B65D41/34 B65D41/3404 B65D41/3409 B65D49/00 B65D49/02 B65D55/02 B65D55/022 B65D49/04 B65D55/026
European: B65D41/34 B65D41/34A B65D41/34A1 B65D49/00 B65D49/02 B65D49/04 B65D55/02 B65D55/02D B65D55/02G
US: 215/201



Family:

Publication number	Publication date	Application number	Application date
AT523444 E	20110915	AT20080775918T	20080710
CN101743175 A	20100616	CN200880024521	20080710
CN101743175 B	20110720	CN200880024521	20080710
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EP2178771 A1	20100428	EP20080775918	20080710
EP2178771 B1	20110907	EP20080775918	20080710
ES2372787 T3	20120126	ES20080775918T	20080710
GB200713711 A0	20070822	GB20070013711	20070713
GB2450939 A1	20090114	GB20070013711	20070713
GB2450939 B2	20120201	GB20070013711	20070713
HK1139112 A1	20120629	HK20100104887	20100518
KR101512526 B1	20150415	KR20097026726	20080710
KR20100031107 A	20100319	KR20097026726	20080710
PL2178771 T3	20120229	PL20080775918T	20080710
TH100859 A	20100331	TH20081003618	20080711
TH42414 B	20141223	TH20081003618	20080711
TW200909308 A	20090301	TW20080126524	20080711
TWI345541 B	20110721	TW20080126524	20080711
US2011259844 AA	20111027	US20080664961	20080710
US9102448 BB	20150811	US20080664961	20080710
WO09010722 A1	20090122	WO2008GB02377	20080710

Priority:
EP20080775918 20080710 GB20070013711 20070713 WO2008GB02377 20080710

Probable Assignee: OBRIST CLOSURES SWITZERLAND

Assignee(s): (std): HARROWER JAMES ; MCPHERSON ALEXANDER DONALD MEIKLEM ; OBRIST CLOSURES SWITZERLAND ; SKELTON STEVEN ANDREW

Assignee(s): OBRIST CLOSURES SWITZERLAND GMBH

Inventor(s): (std): HARROWER JAMES ; MCPHERSON ALEXANDER DONALD MEI ; MCPHERSON ALEXANDER DONALD MEIKLEM ; SKELTON STEVEN ANDREW ; SKELTON STEVEN ; MEIKLEM MCPHERSON ALEXANDER DONALD ; MCPHERSON ALEXANDER ; JAMES HARROWER ; ANDREW SKELTON STEVEN

Inventor(s): ALEXANDER DONALD MEIKLEM MCPHERSON ; STEVEN ANDREW SKELTON

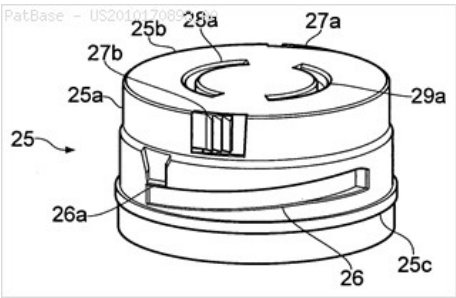
Agent(s): GREENWOOD MATTHEW DAVID; ANDREW F; LACKENBACH SIEGEL LLP; GREENWOOD MATTHEW ET AL

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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **TAMPER**-EVIDENT **CLOSURE**

Abstract: Source: US2010170898A A **tamper** evident **closure** for a container is provided. The **closure** comprises a first portion including inner and outer parts, and a second portion. The outer part is movable relative to the inner part from a first position in which at least part of the first and second portions are adjacent each other to a second position in which there is a gap therebetween. The **closure** comprises **locking** means for **locking** it in the second position upon first opening so that the gap cannot easily be closed. The **closure** further comprises indicator means for providing a visual indication if the **locking** means is overridden to close the gap.

Classifications:
International (IPC 8-9): B65D41/32 B65D41/34 B65D49/00 B65D49/02 B65D49/12 B65D55/02 (Advanced/Invention); B65D41/34 B65D49/12 B65D55/02 (Advanced/Non-invention); B65D41/34 B65D49/00 B65D55/02 (Core/Invention); B65D (Subclass/Invention)
CPC: B65D41/62 B65D41/34 B65D41/3404 B65D41/3409 B65D49/00 B65D49/02 B65D55/02 B65D55/022 B65D55/026
European: B65D41/34 B65D41/34A B65D41/34A1 B65D49/00 B65D49/02 B65D55/02 B65D55/02D B65D55/02G
US: 215/230 215/252 220/214



Family:

Publication number	Publication date	Application number	Application date
AT545604 E	20120315	AT20080775887T	20080710
CN101743176 A	20100616	CN200880024640	20080710
CN101743176 B	20130220	CN200880024640	20080710
DE602008013463 D1	20120412	DE200860013463T	20080710
EP2173633 A1	20100414	EP20080775887	20080710
EP2173633 B1	20120215	EP20080775887	20080710
ES2380512 T3	20120514	ES20080775887T	20080710
GB200713712 A0	20070822	GB20070013712	20070713
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HK1139113 A1	20120921	HK20100104888	20100518
KR101430287 B1	20140814	KR20107002271	20080710
KR20100044804 A	20100430	KR20107002271	20080710
KR20130089289 A	20130809	KR20137020300	20080710
PL2173633 T3	20120731	PL20080775887T	20080710
TW200909310 A	20090301	TW20080126525	20080711
US2010170898 AA	20100708	US20080666630	20080710
US8453856 BB	20130604	US20080666630	20080710
WO09010717 A1	20090122	WO2008GB02343	20080710

Priority:
EP20080775887 20080710 GB20070013712 20070713 WO2008GB02343 20080710

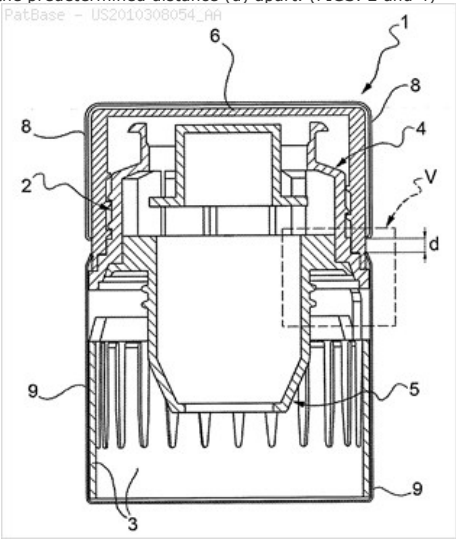
Probable Assignee: OBRIST CLOSURES SWITZERLAND GMBH
Assignee(s): (std): HARROWER JAMES ; MCPHERSON ALEXANDER DONALD MEIKLEM ; OBRIST CLOSURES SWITZERLAND ; SKELTON STEVEN ANDREW ; OBRIST CLOUSES SWITZERLAND GMB
Assignee(s): OBRIST CLOUSES SWITZERLAND GMBH ; OBRIST CLOSURES SWITZERLAND GMBH
Inventor(s): (std): MCPHERSON ALEXANDER DONALD MEIKLEM ; SKELTON STEVEN ANDREW ; MEIKLEM MCPHERSON ALEXANDER DONALD ; MCPHERSON ALEXANDER DONALD MEI ; JAMES HARROWER ; HARROWER JAMES ; ANDREW SKELTON STEVEN ; SKELTON STEVEN ; MCPHERSON ALEXANDER
Inventor(s): ALEXANDER DONALD MEIKLEM MCPHERSON ; STEVEN ANDREW SKELTON
Agent(s): GREENWOOD MATTHEW DAVID; LACKENBACH SIEGEL LLP; ANDREW F; GREENWOOD MATTHEW 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SECURITY **CLOSURE** ASSEMBLY FOR A CONTAINER, IN PARTICULAR FOR A BOTTLE FOR LIQUIDS

Abstract: Source: US2010308054A The **closure** assembly (1) comprises: a pourer unit (2) having a lower portion (3) for fixing to the mouth of the container and an upper pouring portion (4), a removable cap (6) provided with a resiliently deformable peripheral lip portion (7), and an outer covering (8, 9) including: an upper sleeve element (8) which closely surrounds the cap (6) leaving the lip portion (7) thereof substantially exposed, and a lower sleeve element (9) which is separate from the upper sleeve element (8) and closely surrounds the lower portion (3) of the pourer unit (2) and which, prior to the first opening of the **closure** assembly (1), extends at a predetermined distance (d) from the upper sleeve element (8) and at least partially surrounds the lip portion (7) of the cap (6). The lip portion (7) is biased towards a condition in which it is opened out radially and, prior to the first opening of the **closure** assembly (1), the lower sleeve element (9) of the outer covering (8, 9) keeps the lip portion (7) in a condition in which it is drawn in resiliently towards the longitudinal axis of the **closure** assembly (1). The arrangement is such that, after the first opening of the **closure** assembly (1), the lip portion (7) is arranged in the opened-out condition in which it extends radially outside of the lower sleeve element (9) but permits subsequent re-fitting of the cap (6) on the pourer unit (2) as far as the **closure** position in which the lower sleeve element (9) and the upper sleeve element (8) once more extend the predetermined distance (d) apart. (FIGS. 2 and 4)

Classifications:

International (IPC 8-9): B65D41/00 B65D41/04 B65D41/62
B65D45/00 (Advanced/Invention);
B65D41/00 (Core/Invention)
CPC: B65D41/62 B65D2101/0084
European: B65D41/62 L65D101/00A6
US: 215/252 215/258 215/273 215/277 215/329 220/315



Family:

Publication number	Publication date	Application number	Application date
BRPI0905747 A2	20150714	BR2009PI05747	20090127
DE602009016230 D1	20130801	DE200960016230T	20090127
EA018520 B1	20130830	EA20100070908	20090127
EA201070908 A1	20110228	EA20100070908	20090127
EP2242696 A1	20101027	EP20090706820	20090127
EP2242696 B1	20130605	EP20090706820	20090127
ES2426617 T3	20131024	ES20090706820T	20090127
ITTO20080067 A1	20090801	IT2008TO00067	20080131
MX2010008459 A1	20101130	MX2010008459	20090127
PT2242696 T	20130717	PT20090706820T	20090127
SI2242696 T1	20130930	SI20090030659T	20090127
US2010308054 AA	20101209	US20090864806	20090127
US8439213 BB	20130514	US20090864806	20090127
WO09095851 A1	20090806	WO2009IB50323	20090127

Priority:
EP20090706820 20090127 IT2008TO00067 20080131 WO2009IB50323 20090127

Probable Assignee: ALAPAST SPA

Assignee(s): (std): ALPLAST S P A AND LOWER CAST ; ALPLAST SPA ; CAPORALETTI FABIO ; GORIA FRANCESCO ; RAINERO FLAVIO

Assignee(s): ALAPAST SPA ; ALPLAST AND (LOWER CAST) SPA ; ALPLAST S P A

Inventor(s): (std): CAPORALETTI FABIO ; GORIA FRANCESCO ; RAINERO FLAVIO

Inventor(s): FABIO CAPORALETTI ; FLAVIO RAINERO ; FRANCESCO GORIA

Agent(s): RUEGER BARTHELT AND ABEL PATENTANWALTE; QUINTERNO GIUSEPPE; PEREZ ELIANA; SUGHRUE MION PLLC

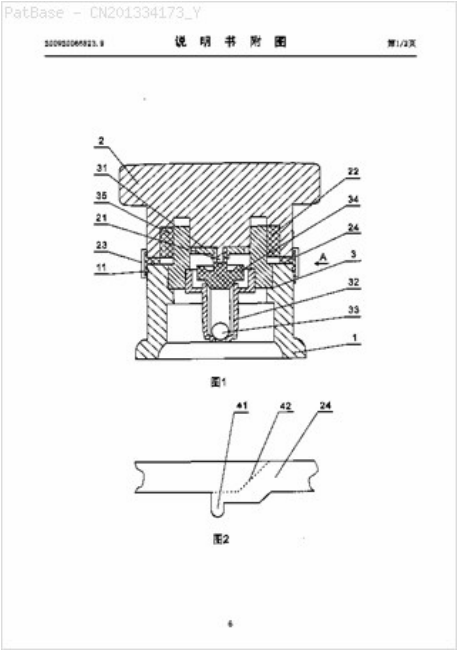
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Title: Anti-counterfeiting wine bottle cap

Abstract: Source: CN201334173Y The utility model discloses an anti-counterfeiting wine bottle cap which comprises a base seat, an upper cover and a check valve; the base seat is in the shape of a hollow cylinder; steps are arranged in an inner hole of the base seat, and a groove is formed on the outer wall thereof; the check valve is fixed on the hollow inner steps of the base seat; screw threads are formed on the outer side of the upper end of the check valve; a thread sleeve is arranged in the upper cover; the end surface of the thread sleeve is connected with a sealed pull tab in a dotted manner; the upper cover is connected with the base seat through the thread sleeve and the external threads; the sealed pull tab is embedded in the circumference between the upper cover and the base seat in a sealing manner, and is clamped with the groove; and aluminum foil is mounted on the sealed pull tab in a sealing manner. The wine bottle cap has the advantages of simple structure and convenient use; one the wine bottle cap is broken and opened, the sealed pull tab is destroyed, and the bottle cap cannot be restored any more, thereby achieving the aim of anti-counterfeiting.

Classifications:

International (IPC 8-9): B65D47/12 B65D49/04 B65D51/24 B65D55/06 (Advanced/Invention); B65D47/12 B65D49/00 B65D51/24 B65D55/02 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201334173 Y	20091028	CN200920066823U	20090113

Priority:

CN200920066823U 20090113

Probable Assignee: YUN FANG

Assignee(s): (std): YUN FANG

Assignee(s): FANG YUN

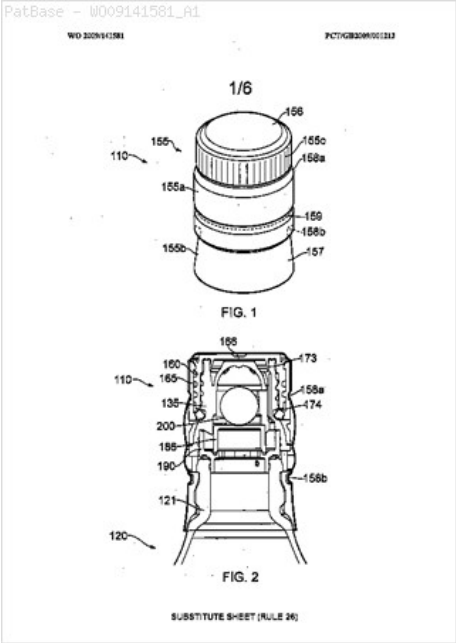
Inventor(s): (std): YUN FANG

Inventor(s): FANG YUN

Title: A **TAMPER**-EVIDENT **CLOSURE**

Abstract: A **tamper**-evident **closure** (110) for alpha container (120) is provided. The **closure** comprising a body part (175) attachable to a container and a cap part (135) having inner (165) and outer (160) parts, the outer part is movable relative to the inner part from a first position to a second position in which a gap (G) is formed in the **closure** and in which the inner and outer cap parts become irreversibly **locked** so that the gap cannot be closed, in which the inner part includes **locking** means (174) for preventing movement relative to the body, and in which the outer part holds the **locking** means in a **locked** position when in the first position and until it reaches the second position and thereafter the **locking** means are released so that the inner part can move relative to the body part.

Classifications:
International (IPC 8-9): B65D49/06 B65D55/02 (Advanced/Invention);
B65D49/00 B65D55/02 (Core/Invention)
CPC: B65D49/06 B65D55/026
European: B65D49/06 B65D55/02G



Family:

Publication number	Publication date	Application number	Application date
CN102076573 A	20110525	CN200980124769	20090515
CN102076573 B	20130605	CN200980124769	20090515
GB200809058 A0	20080625	GB20080009058	20080519
WO09141581 A1	20091126	WO2009GB01213	20090515

Priority:
GB20080009058 20080519 WO2009GB01213 20090515

Probable Assignee: OBRIST CLOSURES SWITZERLAND

Assignee(s): (std): MCPHERSON ALEXANDER DONALD MEICKLEM ; OBRIST CLOSURES SWITZERLAND ; SKELTON STEVEN ANDREW

Assignee(s): OBRIST CLOSURES SWITZERLAND GMBH

Inventor(s): (std): ANDREW SKELTON STEVEN ; MCPHERSON ALEXANDER DONALD MEICKLEM ; MEICKLEM MCPHERSON ALEXANDER DONALD ; SKELTON STEVEN ANDREW

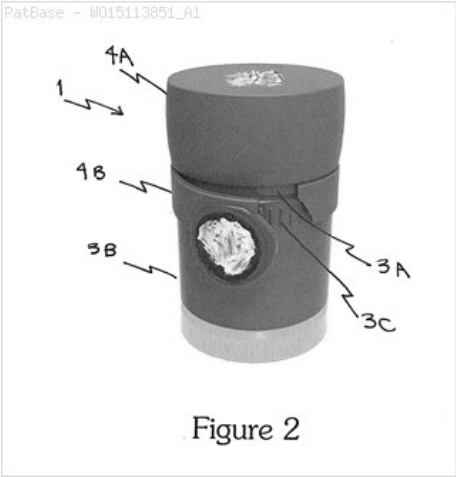
Agent(s): GREENWOOD MATTHEW

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

Title: A **TAMPER**-EVIDENT **CLOSURE**

Abstract: A **tamper**-evident **closure** (1) for a container, the **closure** comprising: a shell comprising a first shell part (3A) and a second shell part (3B); and a **tamper**-evident overcap, the overcap comprising a cap (4A) which is fixed to the exterior of the first shell part and a **tamper**-evident member (4B) which is releasably connected to the cap (4A) and releasably located around the exterior of at least part of the second shell part (3B), such that the first and second shell parts (3A, 3B) cannot be separated unless the member (4B) is released, and thereafter the cap (4A) is removable together with the first shell part (3A).

Classifications:
International (IPC 8-9): B65D55/02 B65D55/06 (Advanced/Invention)
CPC: B65D55/024 B65D55/06



Family:

Publication number	Publication date	Application number	Application date
GB201401682 A0	20140319	GB20140001682	20140131
WO15113851 A1	20150806	WO2015EP50894	20150119

Priority:

GB20140001682 20140131

Probable Assignee: OBRIST CLOSURES SWITZERLAND

Assignee(s): (std): OBRIST CLOSURES SWITZERLAND

Assignee(s): OBRIST CLOSURES SWITZERLAND GMBH

Inventor(s): (std): MCPHERSON ALEXANDER DONALD MEIKLEM

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