

Title: Flexible container with snip-off and reseal features

Abstract: Source: US3187966A (Claim 1) 1. A flexible **plastic** container comprising a hollow body having an integral upper, central and lower portion, said lower portion tapering downwardly from said central portion and terminating in a narrow heat sealed edge, said central portion being circumferentially recessed, said upper portion including an upwardly tapering circumferential shoulder terminating in an elongated neck, and a closure integrally joined to said neck, said closure having a gripping portion and a plug portion, said gripping portion including a hollow body defined by a top wall, a peripheral body wall, and an annular bottom wall, said 1Q annular wall being generally normal to the container body axis and spaced from the plug portion, a circumferential wall joining the annular wall to the plug portion, the plug portion including a hollow body, said closure being adapted to be severed from said neck to form a separable jg closure whereby said plug portion is cooperable with said neck to reclose an opening formed therein when the closure is severed from the neck, said opening being defined by a severed lip of said neck and said circumferential wall defining a circumferential sealing seat opening radially outwardly of the container body and being adapted to contact said lip and provide sealing contact therewith.

Classifications:

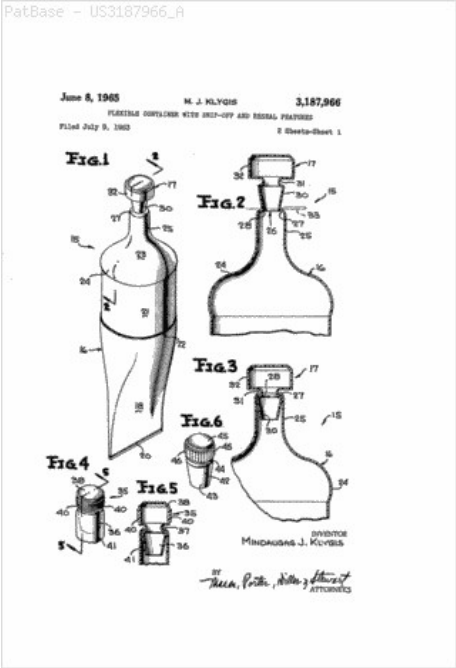
International (IPC 8-9): B65D1/02 B65D35/08 (Advanced/Invention);
B65D1/02 B65D35/02 (Core/Invention)

International (IPC 1-7): B65D39/16

CPC: B65D1/0238 B65D35/08

European: B65D1/02D1A B65D35/08

US: 215/48 220/265 222/212 222/541.2 222/541.5



Family:

Publication number	Publication date	Application number	Application date
US3187966 A	19650608	US19630293769	19630709

Priority:

US19630293769 19630709

Probable Assignee: CONTINENTAL CAN CO

Assignee(s): (std): CONTINENTAL CAN CO

Assignee(s): CONTINENTAL CAN COMPANY INC

Inventor(s): (std): JULIUS KLYGIS MINDAUGAS

Inventor(s): KLYGIS MINDAUGAS JULIUS

Title: Tube structure

Abstract: Source: US3204835A (Claim 1) .1.. A col-lapsible one _pie-ce dispensin.__ container, comprising: a fle_dble container body havin.- a ne;-k portion includi-ig an end wal.I provided with a dispensin.- orifice; ag inierated cap member having a roof portion overlying said erid wall in closely spaced relation-, a relatively short len.-th solid stem member integral with said roof portion on the outer surface thereof _and to said end wall in sealing relation w-ith said orifice; and lan internal embossment on said cap member receivable _within and enterin.__ into said orifice for resealing said orifice after _fracturi- of said stem member 'from said orifice'and location of said cap mem- ber upon said neck portion in a normal position -thereon, substantially entirely surrounding said neck portion.

Classifications:

International (IPC 8-9): B65D1/02 B65D41/18 (Advanced/Invention);

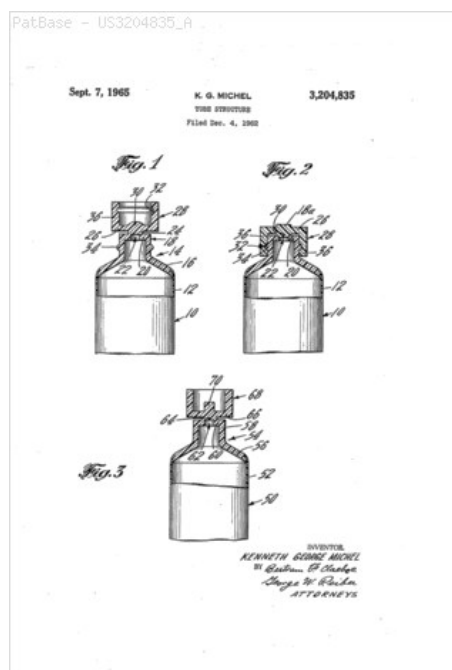
International (IPC 8-9): B05D1/02 B05D41/02 (Core/Invention)

International (IPC 1-7): B65D35/44

CPC: B65D1/0238 B65D17/06 B65D41/185

European: B65D1/02D1A B65D17/06 B65D41/18B

US: 215/43 215/48 222/541.5 222/546



Family:

Publication number	Publication date	Application number	Application date
US3204835 A	19650907	US19620242149	19621204

Priority:

US19620242149 19621204

Probable Assignee: AMERICAN CAN CO

Assignee(s): (std): AMERICAN CAN CO

Assignee(s): AMERICAN CAN COMPANY

Inventor(s): (std): GEORGE MICHEL KENNETH

Inventor(s): MICHEL KENNETH GEORGE

Title: BREAKAWAY NECK CONTAINER WITH INTEGRAL CAP

Abstract: Source: US3858739A A container having a breakaway neck with an integral cap comprising frusto-conical end portions one of which is adjacent the end of the container prior to cap breakaway thereby to prevent the user's fingers from engaging the said end of the container from which the cap is being broken away, and the other frusto-conical end closing said end of the container when said cap is inverted.

Classifications:

International (IPC 8-9): B65D1/08 B65D1/09 (Advanced/Invention);

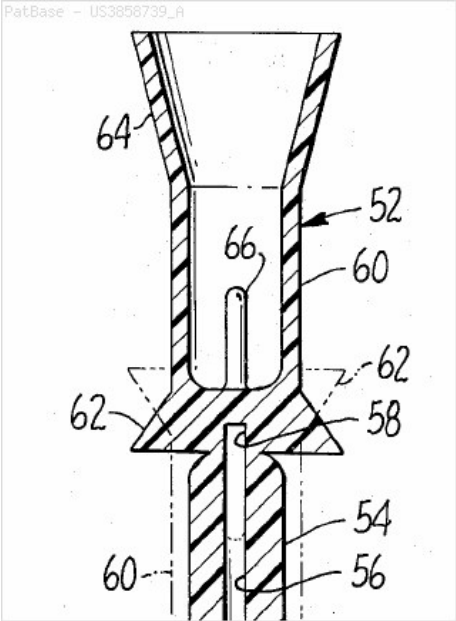
B65D1/08 B65D1/09 (Core/Invention)

International (IPC 1-7): B65D1/08 B65D17/24 B65D47/36

CPC: B65D1/08 B65D1/095

European: B65D1/08 B65D1/09D

US: 215/32 215/47 220/266 222/541.5



Family:

Publication number	Publication date	Application number	Application date
US3858739 A	19750107	US19730338379	19730305

Priority:

US19730338379 19730305

Probable Assignee: BARNES HIND DIAGNOSTICS INC

Assignee(s): (std): BARNES HIND DIAGNOSTICS INC

Assignee(s): CP PACKAGING INC

Inventor(s): (std): TURNER LLOYD S ; VAUGHAN DANIEL G

Title: Child proof dispenser

Abstract: Source: US4334638A A two phase interlock secures a cap to a container of a fluid. The interlock includes flanges extending from the cap for engaging lugs located about the mouth of the container which flanges are disengageably engagable with the lugs by rotating the cap relative to the container and a key extends from the cap into a key way in the container to prevent rotation of the cap relative to the container without withdrawal of the key from the keyway by deliberate precise flexing of the cap.

Classifications:

International (IPC 8-9): B01L3/00 B01L3/02 B05C17/00 B43M11/06 B65D1/02 B65D35/00 B65D39/00 B65D41/04 B65D41/18 B65D41/28 B65D43/08 B65D47/06 B65D47/10 B65D47/12 B65D47/18 B65D47/36 B65D55/02 B65D83/00 B67B5/00 C09J4/04 (Advanced/Invention); B43M11/00 B65D39/00 B65D41/04 B65D43/08 B65D47/00 B65D47/12 B65D55/02 B65D83/00 B67B5/00 (Core/Invention)

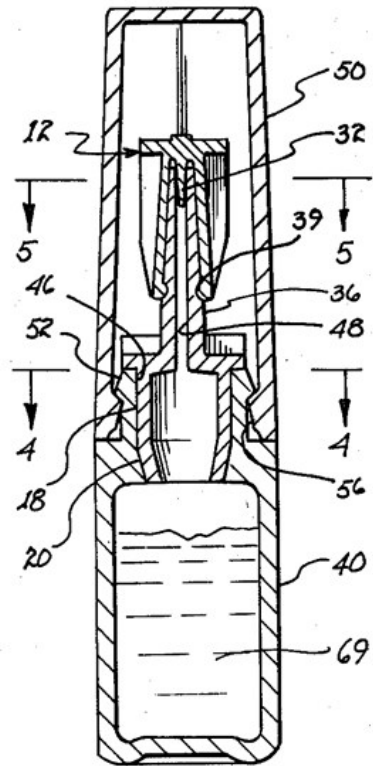
International (IPC 1-7): B01L3/00 B05C17/00 B43M11/06 B65D1/08 B65D17/24 B65D17/40 B65D39/00 B65D41/04 B65D41/18 B65D41/28 B65D43/08 B65D47/06 B65D47/10 B65D47/12 B65D47/14 B65D47/18 B65D47/36 B65D51/18 B65D55/02 B65D83/00 B67B5/00 B67D5/32 C09J3/14 C09J4/04

CPC: B65D1/0238 B65D17/06 B65D41/18 B01L3/0272 B01L2300/042

European: B01L3/02D12 B65D1/02D1A B65D17/06 B65D41/18 L01L300/04A2

US: 215/216 222/149 222/153 222/153.1 222/182 222/420 222/541.5 222/545 222/546 422/930

PatBase - US4334638_A



Family:

Publication number	Publication date	Application number	Application date
AU198167597 A1	19820304	AU19810067597	19810224
DE3028080 A1	19810813	DE19803028080	19800724
FR2475503 A1	19810814	FR19800018598	19800827
FR2497175 A1	19820702	FR19820003215	19820226
FR2497176 A1	19820702	FR19820003214	19820226
GB2068884 A1	19810819	GB19800023122	19800715
IT8049549 A0	19800825	IT19800049549	19800825
JP1671117 C3	19920612	JP19800108774	19800807
JP1671323 C3	19920612	JP19870197183	19870806
JP3029675 B4	19910424	JP19800108774	19800807
JP3035191 B4	19910527	JP19870197183	19870806
JP57055862 A2	19820403	JP19800108774	19800807
JP63096044 A2	19880426	JP19870197183	19870806
US4334638 A	19820615	US19800119635	19800207
US4408699 A	19831011	US19820346116	19820205
US4413753 A	19831108	US19820346117	19820205

Priority:

US19800119635 19800207 US19800119452 19800207 US19800150151 19800515
US19820346116 19820205 US19820346117 19820205 JP19800108774 19870806

Probable Assignee: PACER TECH AND RESOURCES

Assignee(s): (std): PACER TECH AND RESOURCES ; PACER TECHNOLOGY AND RESOURCES INC ; TAOKA CHEMICAL CO LTD

Assignee(s): PACER TECHNOLOGY AND RESOURCES INC CAPBELL CALIF U ; PACER TECHNOLOGY AND RESOURCES INC CAPBELL CALIF US ; PACER TECHNOLOGY RESOURCES INC ; PEESAA TEKUNOROJII ANDO RISOOSUZU INC ; TAOKA CHEM CO LTD

Inventor(s): (std): HIYUU JIEI SUTOTSUKU ; STOCK H J ; STOCK HUGH J ; HUGH J STOCK ; HJ STOCK

Inventor(s): H J STOCK ; STOCK HUGH J SARATOGA CALIF US ; HIYUU JEI SUTOTSUKU

Title: FLASK FOR STERILE LIQUIDS

Abstract: Source: US4493427A A flask for sterile liquids capable of supporting a terminal sterilization of pharmaceutical quality. The flask has a tamper-proof closure comprising a cap screwed on its neck and a locking ring formed in two parts axially superposed and joined by a breakable zone. One of the parts is axially carried away by the cap during opening of the flask and the other part is held axially by a shoulder formed on the neck. The cap encloses a seal made of elastomeric material inserted between its bottom and the edge of the neck, this seal being axially solid with the cap and comprising a skirt applying itself against the inner surface of the neck in a bacteriologically sealproof manner along a height sufficient to ensure a bacteriological closure seal until the locking ring is broken.

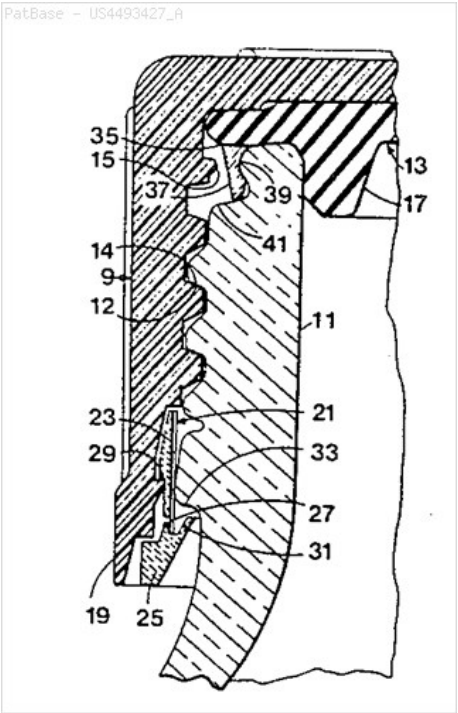
Classifications:

International (IPC 8-9): B01L3/08 B65D1/02 B65D23/06 B65D41/34 B65D41/38
G01N1/00 (Advanced/Invention);
B01L3/08 G01N1/00 (Advanced/Non-invention);
B01L3/08 B65D23/00 B65D41/34 (Core/Invention);
G01N1/00 (Core/Non-invention)

International (IPC 1-7): A61G1/00 A61J1/00 A61J19/02 B01L3/08 B65D1/02
B65D23/00 B65D41/04 B65D41/28 B65D41/34 B65D41/38 B65D41/58 B65D53/00
B65D53/02 B65D53/04 B65D55/02 B65D55/06 B65D55/08 B65D55/12 B65D81/18
CPC: Y10S215/901 B65D23/06 B65D41/3438 G01N2001/007

European: B65D23/06 B65D41/34C3 S01N1/00B4

US: 215/100.5 215/230 215/252 215/258 215/31 215/44 215/45 215/901 222/571



Family:

Publication number	Publication date	Application number	Application date
AU198315391 A1	19831215	AU19830015391	19830606
AU554454 B2	19860821	AU19830015391	19830606
BE897008 A1	19831003	BE19830210965	19830609
CA1221056 A1	19870428	CA19830429876	19830607
CH649057 A	19850430	CH19820003603	19820610
DE3320676 A1	19831215	DE19833320676	19830608
DE3320676 C2	19920423	DE19833320676	19830608
DK160479 B	19910318	DK19830002558	19830603
DK160479 C	19910826	DK19830002558	19830603
DK255883 A	19831211	DK19830002558	19830603
DK255883 A0	19830603	DK19830002558	19830603
ES281980 U	19860101	ES19830281980U	19830604
ES281980 Y	19860901	ES19830281980U	19830604
ES281980 Y1	19860915	ES19830281980U	19830604
FR2528393 A1	19831216	FR19830009447	19830607
FR2528393 B1	19880108	FR19830009447	19830607
GB2122979 A1	19840125	GB19830015494	19830606
GB2122979 B2	19851204	GB19830015494	19830606
GB8315494 A0	19830713	GB19830015494	19830606
IE54298 B	19890816	IE19830001276	19830530
IE831276 L	19831210	IE19830001276	19830530
IT1194265 A	19880914	IT19830021548	19830609
IT8321548 A0	19830609	IT19830021548	19830609
JP59004447 A2	19840111	JP19830104069	19830610
NL8302056 A	19840102	NL19830002056	19830609
NO154995 B	19861020	NO19830002072	19830608
NO154995 C	19870128	NO19830002072	19830608
NO832072 A	19831212	NO19830002072	19830608
NZ204425 A	19860221	NZ19830204425	19830531
SE8303248 A	19831211	SE19830003248D	19830608
SE8303248 A0	19830608	SE19830003248	19830608
SE8303248 L	19831211	SE19830003248	19830608
US4493427 A	19850115	US19830502124	19830608
ZA8304175 A	19840829	ZA19830004175	19830608

Priority:

CH19820003603 19820610 CA19830429876 19830607

Probable Assignee: STERICRIC SA

Assignee(s): (std): STERICRIC S A ; STERICRIC S A TE FRIBOURG ZWITSERLAND ; STERICRIC SA ; SUTERITSUKURITSUKU SA ; WOLKONSKY ALEXANDRE

Assignee(s): STERICRIC TE FRIBOURG ZWITSERLAND SA ; STERICRIC S A 1700 FRIBOURG CH ; STERICRIC S A FREIBURG FRIBOURG CH

Inventor(s): (std): A WOLKONSKY ; ALEXANDER WOLKONSKY ; AREKUSANDORU BUORUKONSUKII ; L INVENTEUR A RENONCE A ETRE MENTIONNE ; WOLKONSKY A ; WOLKONSKY ALEXANDER ; WOLKONSKY ALEXANDRE ; L INVENTEUR A RENONCE A ETRE M

Inventor(s): WOLKONSKY ALEXANDER 1700 FRIBOURG CH ; WOLKONSKY ALEXANDER FREIBURG FRIBOURG CH

Title: SINGLE OR MULTIPLE DOSE CONTAINER-CLOSURE ASSEMBLIES

Abstract: Source: US4512475A A series of container-closure assemblies, for liquid products characterized by a container consisting of a tubular hollow body portion having a lower side opening which can be sealed by welding and an upper neck closed at the upper side by a stalk and a stopper integrally connected to the discharge end of the container by a stalk provided with means to close the neck of the container after the opening by means of fracturing the stalk, the lateral sidewalls of the container body portion and stopper of each assembly in the series connected by fins and a fracturable scoreline to facilitate separation of each container-closure assembly of the series.

Classifications:

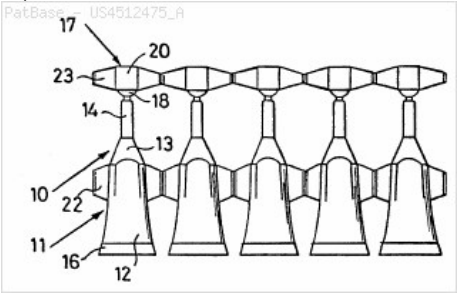
International (IPC 8-9): A61J1/06 B65D1/09 (Advanced/Invention);
A61J1/06 B65D1/09 (Core/Invention);
B65D (Subclass/Invention)

International (IPC 1-7): B65D1/08 B65D85/62 B67D5/56

CPC: Y10S206/82 B65D1/095 A61J1/067

European: A61J1/06D B65D1/09D

US: 206/484 206/820 215/32 215/48 215/50 222/456 222/541 222/541.6 222/541.9



Family:

Publication number	Publication date	Application number	Application date
US4512475 A	19850423	US19830548613	19831104

Priority:

US19830548613 19831104

Probable Assignee: WHEATON INC

Assignee(s): (std): FEDERIGHI ALBERTO

Assignee(s): WHEATON HOLDING INC ; WHEATON INC ; WHEATON IND ; WHEATON IND A OF NJ CORP ; WHEATON IND INC ; CP PACKAGING INC

Inventor(s): (std): FEDERIGHI ALBERTO

Title: Container with twist-off tamper evident feature

Abstract: Source: US4666063A An integral seal member is formed across the outlet in the neck of a tamper evident, thermoplastic container by adding to the thermoplastic material such as polyethylene, 3 percent to 16 percent, and preferably about 8 percent by weight, of an anhydrous solid inorganic particulate additive such as an anhydrous siliceous material or calcium carbonate so that the material becomes brittle enough that the seal member tears cleanly from the neck within the confines of an undercut at the interface between the seal member and neck. Torque is applied to the seal member by providing in the top of a conventional screw cap which forms a resealing closure for the container once opened, a recess with serrations which, when the cap is removed and turned upside down, engage serrations on the peripheral edge of the seal.

Classifications:

International (IPC 8-9): B65D51/22 (Advanced/Invention);

B65D51/18 (Core/Invention)

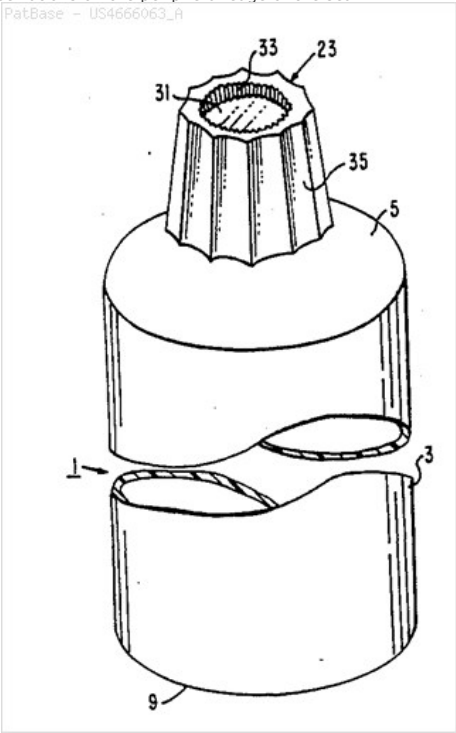
International (IPC 1-7): B65D17/40 B65D35/08 B65D35/44 B65D47/10 B65D51/22

B65D55/02

CPC: B65D51/228 B65D2251/0015 B65D2251/0071

European: B65D51/22 B65D51/22C B65D51/22E1B L65D251/00Y2D L65D251/00Y6A

US: 215/250 215/253 220/258 220/258.5 220/266 222/107 222/153 222/153.06 222/541 222/541.6 222/541.8 524/427 524/448



Family:

Publication number	Publication date	Application number	Application date
CA1285523 A1	19910702	CA19860516654	19860822
FR2586403 A1	19870227	FR19860012031	19860825
FR2586403 B1	19890713	FR19860012031	19860825
GB2179641 A1	19870311	GB19860020152	19860819
GB2179641 B2	19890809	GB19860020152	19860819
GB8620152 A0	19861001	GB19860020152	19860819
SE463413 B	19901119	SE19860003504	19860820
SE463413 C	19910314	SE19860003504	19860820
SE8603504 A	19870224	SE19860003504	19860820
SE8603504 A0	19860820	SE19860003504	19860820
SE8603504 L	19870224	SE19860003504	19860820
US4666063 A	19870519	US19850768847	19850823

Priority:

US19850768847 19850823 CA19860516654 19860822

Probable Assignee: THATCHER TUBES LLC

Assignee(s): (std): HOLOUBEK GEORGE H ; WHEELING STAMPING CO

Assignee(s): WHEELING STAMPING COMPANY ; MARYLAND NATIONAL BANK SUITE ; SILGAN TUBES CORP ; THATCHER TUBES LLC ; WHEELING STAMPING CY ; ANTHONY EUGENE M ; COURTAULDS PACKAGING INC ; DEUTSCHE BANK TRUST CO ; HANS ALLAN B

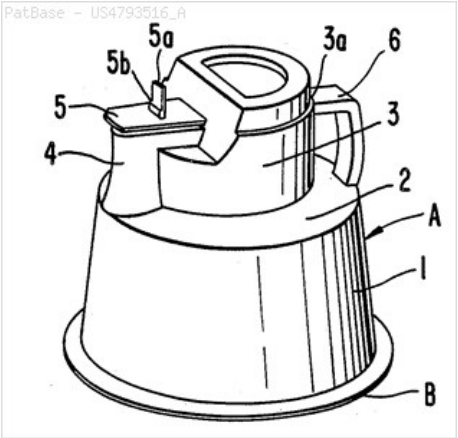
Inventor(s): (std): ANTHONY E M ; ANTHONY EUGENE M ; HANS A B ; HANS ALLAN B ; HOLOUBEK G H ; HOLOUBEK GEORGE H

Inventor(s): A B HANS ; ALLAN B HANS ; E M ANTHONY ; EUGENE M ANTHONY ; G H HOLOUBEK ; GEORGE H HOLOUBEK ; GEORGE H HOLOUBEK EUGENE M ANTHONY ET ALLAN B HANS

Title: Nestable packaging container

Abstract: Source: US4793516A A packaging container for a liquid and more specifically for coffee milk has a container proper having a bottom opening and a bottom cap to seal the bottom opening of the container proper after the container is filled. The container proper having a sectional shape suitable for stacking containers in each other, a top plane having a planar dimension and shape suitable for supporting the container stably when it is turned upside down and being provided with a pouring opening having a lid with hinge action given by a light-gage hinge portion formed at one end of the lid. The lid having a vertical flange at the inside face, whose lower end is connected integrally with a peripheral edge of the pouring opening with an easily broken light-gage portion formed therebetween. The easily broken light-gage portion being provided by forming a score at a connecting portion and the deepest point of the score being positioned outwardly of an outside face of the vertical flange of the lid.

Classifications:
International (IPC 8-9): A47G19/12 B65D1/20 B65D17/28 B65D17/32 B65D21/02 B65D21/032 B65D23/06 B65D23/10 B65D47/08 B65D47/10 B65D85/72 B65D85/80 (Advanced/Invention); B65D85/80 (Advanced/Non-invention); B65D21/02 B65D21/032 B65D23/00 B65D23/10 B65D47/06 B65D47/08 B65D85/72 (Core/Invention)
International (IPC 1-7): A47G19/12 A47G19/14 B65D1/20 B65D17/00 B65D17/28 B65D17/32 B65D21/02 B65D21/04 B65D23/06 B65D43/16 B65D47/08 B65D51/12 B65D85/72 B65D85/80 D06N7/00
CPC: B65D17/16 B65D47/10 B65D85/72 B65D85/80
European: B65D17/16 B65D47/10 B65D85/72 L65D85/80
US: 206/519 206/520 215/10 215/2 220/335 222/143 222/456.1 222/465.1 222/541 222/541.5 222/556



Family:

Publication number	Publication date	Application number	Application date
DE3640040 A1	19870604	DE19863640040	19861124
DE3640040 C2	19900308	DE19863640040	19861124
DE3640040 C3	19960425	DE19863640040	19861124
FR2590554 A1	19870529	FR19860015849	19861114
FR2590554 B1	19890811	FR19860015849	19861114
GB2185231 A1	19870715	GB19860028253	19861126
GB2185231 B2	19891011	GB19860028253	19861126
GB8628253 A0	19861231	GB19860028253	19861126
JP1865019 Y	19920313	JP19850182447U	19851127
JP2035266 Y2	19900925	JP19850182447U	19851127
JP62090580 U1	19870610	JP19850182447U	19851127
US4793516 A	19881227	US19860936076	19861128

Priority:
JP19850182447U 19851127 JP19860083538 19860530

Probable Assignee: KISHIMOTO SANGYO CO LTD

Assignee(s): (std): KISHIMOTO SANGYO CO ; KISHIMOTO SANGYO CO LTD

Assignee(s): KISHIMOTO SANGYO CO LTD TOKIO TOKYO JP

Inventor(s): (std): ISAO NIWA ET MIKIO ISHIMOTO ; NIWA ISAO ; ISHIMOTO MIKIO

Inventor(s): ISAO NIWA ; ISHIMOTO MIKIO TAKARAZUKA HYOGO JP ; MIKIO ISHIMOTO ; NIWA ISAO AMAGASAKI HYOGO JP

Title: Tube having a head of a plastic composition including a detachable closure

Abstract: Source: US5640998A A tube (1) including a head (2) of molded plastic composition and a flexible sidewall (4) affixed to this head (2), including a neck (6 and 7) with an opening (8) connected by a detachable sealed annular portion (11) to a continuous bottom (12) of a closure (20) in the form of an inverted hat topping the neck, the bottom (12) of the closure being joined to an external sidewall (13) of the closure, and the closure carrying a means (17) for reclosing the neck in a sealed manner after the detachment of said annular portion (11). The neck has an inner annular edge (7) demarcating its opening (8), the edge (7) and an annular portion (14 and 15) of the closure (20) that extends from the junction of the base (12) and the annular detachable portion (11) up to an annular portion of the external sidewall (13) located above the connection (16) of the base (12) and the sidewall (13) each have a thickness of between 1.1 and 1.6 mm, their rigidity thus promoting the detachment of the detachable annular portion (11). The invention is applicable to tubes with a detachable cover containing cream-like or paste-like products, in particular toothpaste.

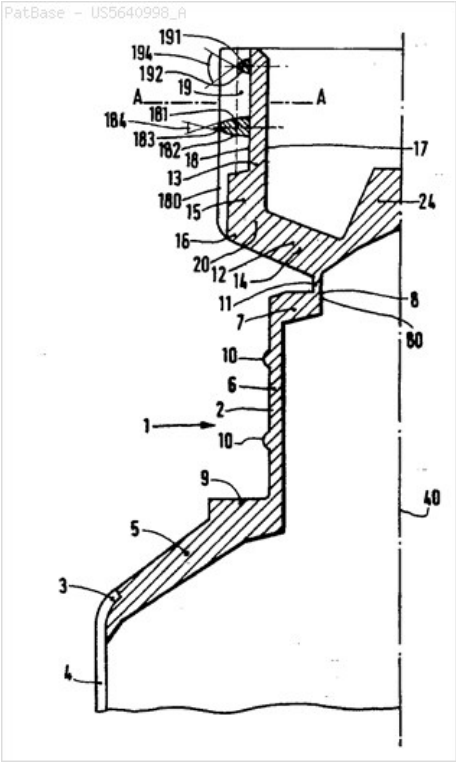
Classifications:

International (IPC 8-9): B65D35/44 (Advanced/Invention);
B65D35/00 (Core/Invention)

International (IPC 1-7): B65D35/00 B65D35/28 B65D41/00 F16L55/10
CPC: B65D35/44

European: B65D35/44

US: 138/89 215/252 215/253 215/48



Family:

Publication number	Publication date	Application number	Application date
CN1040088 C	19981007	CN19941020113	19941111
CN1113476 A	19951220	CN19941020113	19941111
FR2712258 A1	19950519	FR19930013745	19931112
FR2712258 B1	19951222	FR19930013745	19931112
US5640998 A	19970624	US19940338880	19941114

Priority:

FR19930013745 19931112

Probable Assignee: CEBAL SA

Assignee(s): (std): CEBAL

Assignee(s): CEBAL S A ; CEBAL SA

Inventor(s): (std): BERNARD SCHNEIDER ; MICHEL REBEYROLLE ; REBEYROLLE MICHEL ; SCHNEIDER BERNARD

Title: PROCESS FOR MANUFACTURE OF A TOP FOR A CONTAINER WITH A DETACHABLE COVER REUSABLE AS A CAP

Abstract: Source: US6192569B The invention relates to a process for manufacture of a top 1 intended to be attached on a container or a flexible tube 50 and comprising a neck 3 the opening 7 of which is connected by a tearable ring-shaped part 10 to a cover 20 serving as an impervious stopper prior to breaking of the ring-shaped part and then being able to serve for recapping. The cover 20 is extended by a plate 30 the periphery 31 of which has a common axis of symmetry with the tearable ring-shaped part 10 and is provided with at least three lugs 32. The skirt 40 is open at one end; its inner surface 46 is partially cylindrical, its section following the exact shape of the periphery 31, except for the lugs, of the plate 30, and is provided with at least three cavities 41 intended to accommodate said lugs. The skirt is drawn around the plate 30 to the point of immobilization, brought about by the insertion of the lugs 32 on the plate 30 into the cavities 41 of the skirt 40.

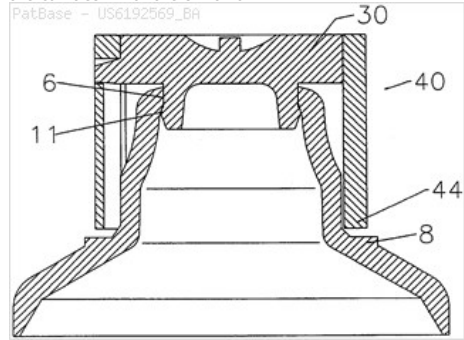
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International (IPC 8-9): B29C45/00 B29C65/00 B65D1/02 B65D35/02 B65D35/12 B65D35/44 B65D41/32 B65D41/34 B65D47/36 B67B3/10 (Advanced/Invention); B65D35/02 B67B3/10 (Advanced/Non-invention); B29C45/00 B65D1/02 B65D35/00 B65D35/02 B65D47/00 B67B3/00 (Core/Invention)

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