

Search strategy

Query

..SEMSEARCH "AERATION HOLE" 22 "CAP" 100 "CAP BUTT" 22 "CAP FLAT UPPER SURFACE" 27 "CENTRAL CHAMBER" 22 "CENTRAL HOLE" 22 "CENTRAL SEMICIRCLE" 48 "CHAMBER" 100 "CHANNEL" 39 "CONCENTRIC FRAME" 23 "CYLINDRICAL CHAMBER" 26 "CYLINDRICAL MAIN" 100 "CYLINDRICAL SHAPE" 24 "DISC EXTENSION FORM" 26 "DISPENSATION" 100 "DISPENSING LID" 100 "EXIT HOLE" 21 "FLAP" 17 "FLAT BASE" 62 "FLAT SURFACE" 43 "FRONT FLAP" 21 "HEEL" 53 "HORIZONTAL PLACED BOTTLE" 100 "INTERNAL DIAMETER" 24 "INTERNAL STEP" 22 "LIMIT" 100 "LOW AREA" 21 "MOUTH PERIMETER" 100 "NOTCH" 17 "OUTER CHAMBER BASE" 26 "PIN" 16 "PINHOLE HOLE" 21 "PLATE" 22 "PULL PLATE" 22 "PULLING PLATE" 22 "RADIAL CUT" 21 "SHUTTER" 19 "SKIRT PERIMETER" 100 "SURROUND" 19 "TRAPEZOIDAL SECTION" 24 "UPPER AREA" 64

50 Documents

Publication numbers	Title	Current assignees
US20130248529 A1	Closure for a container	GATEWAY PLASTICS
EP3476764 A2	Multi-flow dosage cap	BORGES BRANDED FOODS SLU
EP1321375 A2	Dispensing package for viscous liquid product	GRAHAM PACKAGING PLASTIC PRODUCTS, ...
US5048730 A	Moisture-resistant dispensing top	WEATHERCHEM
US20160376078 A1	Closure for a container	GATEWAY PLASTICS
EP-373989 A1	Cap closure for a container provided with pivoting means for dispensing the contents of this container	L'OREAL
US4172540 A	Dispensing closure	POLYTOP
EP1451075 A1	Closure with pressure-actuated valve and lid seal	SEAQUIST CLOSURES FOREIGN
US20100140304 A1	One-piece dispensing closure	WEATHERCHEM
FR2480247 A1	Scent flask with dispenser - has cylinder turned by thumb to open diametral hole through lid of container	L'OREAL
GB1274916 A	Improvements in or relating to dispensing closure assemblies for bottles or other containers	ATLANTIC DESIGN & DEVELOPMENT
US4693399 A	Two-flap closure	WEATHERCHEM
WO200240392 A1	Closure for liquids	WEATHERCHEM
US4361250 A	Plastic container closure	J L CLARK
US4936494 A	Two-flap container closure	WEATHERCHEM
EP-378902 A1	Container closure with hinged flap.	J L CLARK
US6341720 B1	Tri-closure dispensing top	P S, ...
US5547109 A	Container and measuring/dispensing cap assembly	UNION PLANTERS BANK
US20030111495 A1	Closure for a container	GATEWAY PLASTICS
EP--44570 A1	Dispensing closure	POLYTOP
US5873493 A	Integrally molded measurer/dispenser	BERRY PLASTICS
EP1161373 A1	Dispensing structure wich has a lid with a pressure-openable valve	SEAQUIST CLOSURES FOREIGN
US5881894 A	Combination bottle cap and pre-measured medicine dispenser	GARGANO; CATHY
EP3476760 A1	Cap	GOMEZ CAO INNOVATIONS & INVENTIONS
US4801054 A	Watertight molded plastic dispensing closure	OWENS ILLINOIS CLOSURE
EP2424785 A1	Toggle-action dispensing closure with articulated rear flange	UNILEVER
US5411186 A	Dispensing cap with rotatable top	UNION PLANTERS BANK

Publication numbers	Title	Current assignees
EP1799607 A1	Multiple lid closure with open lid retention feature	SEAQUIST CLOSURES FOREIGN
US4804113 A	Salt and pepper shaker	DART INDUSTRIES
US4955513 A	Dispensing closure with flap retention	WEATHERCHEM
US5183171 A	Closure with dispensing fitment and screw-on cap	J L CLARK
US5971231 A	Integrally formed container	GATEWAY PLASTICS
US4047495 A	Child resistant dispensing closures	POLYTOP
EP-524795 A2	Threaded dispensing closure with flap	WEATHERCHEM
EP-386475 A1	Cap with a dispenser for liquids	TAPLAST
US3675812 A	Plastic cover with hinged closure and molding dies therefor	CLARK MANUFACTURING
US5706981 A	Dispensing closure for container	NOBAKHT JAMSHID
US3653546 A	Dispensing closure with rupturable diaphragm seal	POLYTOPE
EP1819630 A2	Closure with more, in particular two lids	SEAQUIST CLOSURES FOREIGN
WO200636673 A1	Measuring and dispensing closure	OWENS ILLINOIS PRESCRIPTION PRODUCTS
EP-929458 A1	Valve-controlled dispensing closure with dispersion baffle	SEAQUIST CLOSURES FOREIGN
EP--93440 A2	Hinged plug type lid	INTERNATIONAL PAPER, ...
US4660746 A	Mouthwash dispenser	SUNBEAM PLASTICS
EP-208413 A2	Closure with snap type hinge cap	OWENS ILLINOIS
US5503308 A	Plastic blow molded bottle having bellows supported dispensing spout	PLASTIPAK PACKAGING
US6422411 B1	Tamper resistant closure overcap for metal spice can	J L CLARK
US20060237388 A1	Flip top closure for dispensing fluent product	P S
US20020179604 A1	Container lid with multiple openings	COCA COLA
US4022464 A	Dispensing container and closure	DART INDUSTRIES
US4813560 A	Spring hinge for dispensing cap	CONTINENTAL WHITE CAP

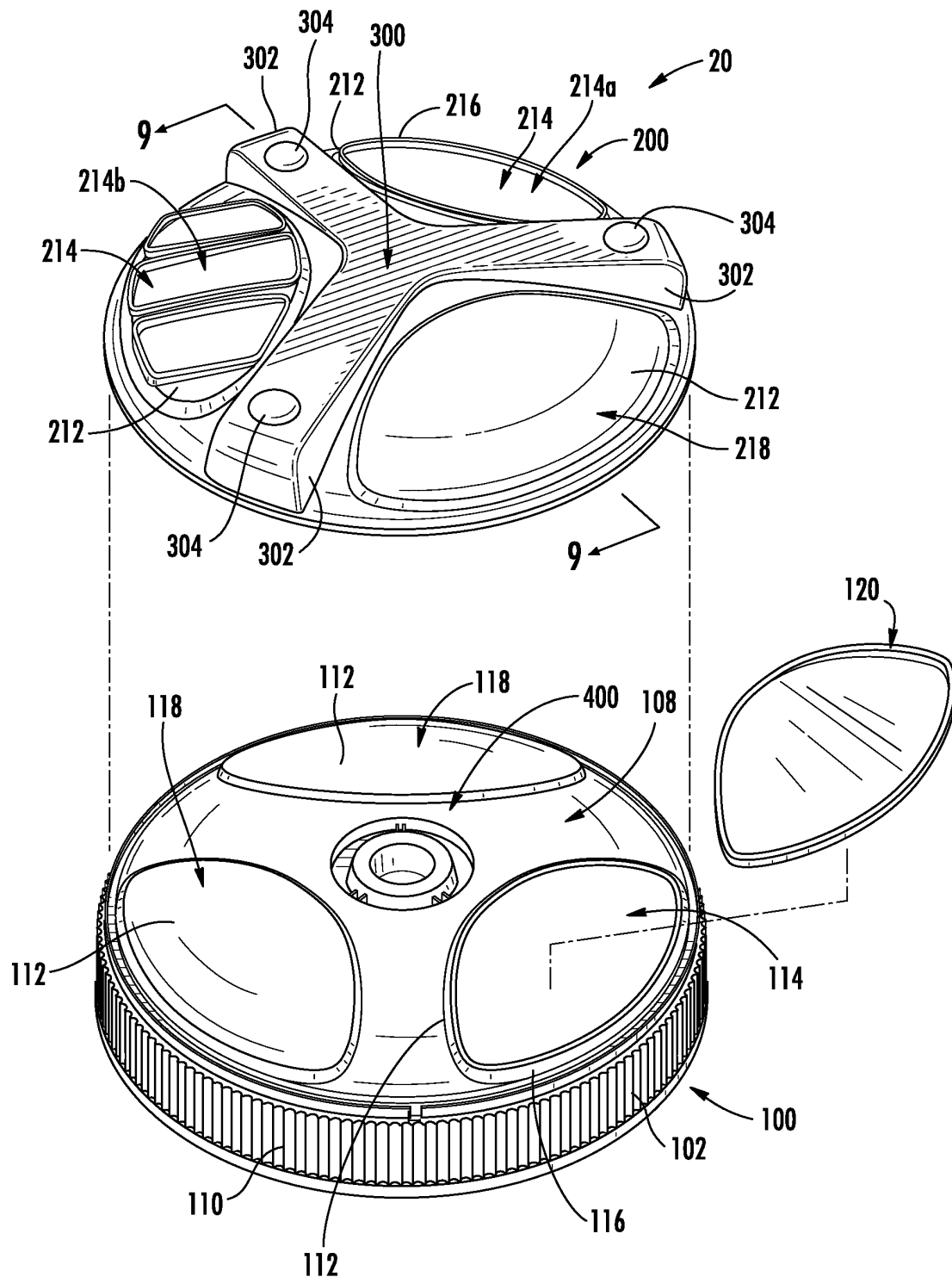
Family 1/50 - FAMPAT - ©Questel

Title

(US8955705)

Closure for a container

Images



Publication numbers with kind code & date

US9475623

B2 2016-10-25

US9475623

US20150114964

A1 2015-04-30

US20150114964

US8955705

B2 2015-02-17

US8955705

US20130248529

A1 2013-09-26

US20130248529



IPC - International classification

B65D-021/02; B65D-047/26; B65D-051/18; B65D-051/20

Abstract

(US20130248529)

A closure is provided that is configured to fit over a mouth of a receptacle to form a container. The closure includes a body having an open bottom formed of a skirt that defines an outer periphery of the body and an end wall defining at least one body dispensing aperture. A cover has two or more cover dispensing apertures and is rotatably coupled to the body and movable between a dispensing position with at least one of the cover dispensing apertures aligned with the body dispensing aperture, and a closed position. A handle has segments extending between each of the cover dispensing apertures, and one or more cover position stops provide a tactile or an audible indication when the cover is moved to either of the dispensing position or the closed position.

Inventors

VOGEL WILLIAM C

PARVE TERRENCE M

PROUDFOOT ROBERT E

Latest standardized assignees - inventors removed

GATEWAY PLASTICS

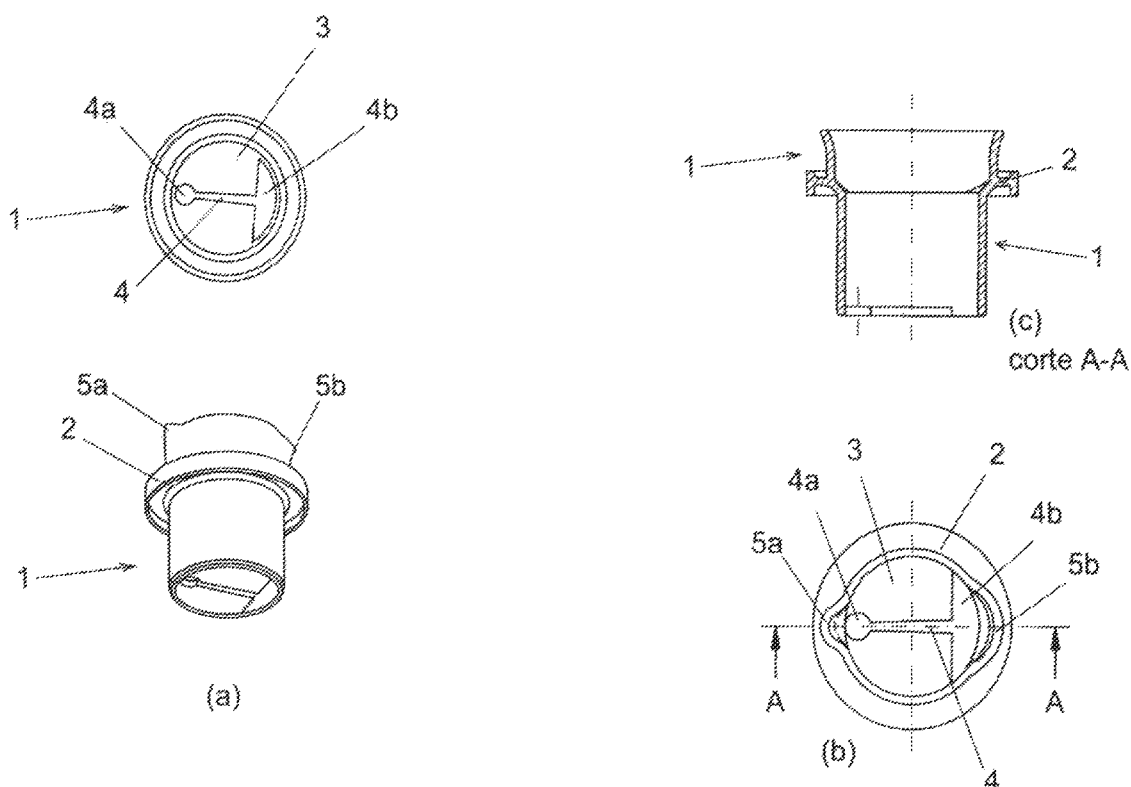
Family 2/50 - FAMPAT - ©Questel

Title

(EP3476764)

Multi-flow dosage cap

Images



Publication numbers with kind code & date

IL238348	B	2019-12-31	IL-238348
PL2921422	T3	2019-09-30	PL2921422
EP3476764	A3	2019-06-26	EP3476764
PT2921422	T	2019-06-25	PT2921422T
DK2921422	T3	2019-06-17	DK2921422T



DK2921422	T3	2019-06-17	DK2921422T				
EP2921422	B1	2019-05-08	EP2921422				
EP3476764	A2	2019-05-01	EP3476764				
MX359287	B	2018-09-20	MX-359287				
RU2658590	C2	2018-06-21	RU2658590				
BR112015010826	A2	2017-07-11	BR112015010826				
JP3211236	U	2017-06-29	JP3211236U				
US9669970	B2	2017-06-06	US9669970				
CA2887874	C	2017-03-14	CA2887874				
RU2015122020	A	2017-01-10	RU2015122020				
IN2549/CHENP/2015	A	2016-07-01	IN2015CN02549				
NZ707140	A	2016-05-27	NZ-707140				
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JP2016501163	A	2016-01-18	JP2016501163				
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CN204802292	U	2015-11-25	CN204802292U				
GT201500097	A	2015-11-18	GT201500097				
US20150298872	A1	2015-10-22	US20150298872				
EP2921422	A1	2015-09-23	EP2921422				
MX2015004754	A	2015-08-10	MX2015004754				
KR20150074031	A	2015-07-01	KR20150074031				
IL238348	A	2015-06-30	IL-238348				
SG11201503058W	A	2015-06-29	SG11201503058W				
BR112015010826	A1	2015-05-26	BR112015010826				
CA2887874	A1	2014-05-22	CA2887874				
WO2014/076330	A1	2014-05-22	WO201476330				
ES1078291	Y	2013-03-22	ES1078291Y				
ES1078291	U	2012-12-18	ES1078291U				

IPC - International classification

B65D-025/38; B65D-025/38; B65D-047/04; B65D-047/04; B65D-047/06; B65D-047/20; B65D-047/32

Abstract

(EP3476764)

Cap for a recipient containing a liquid different from oil, said cap comprising a lower part with means to adjust it to the recipient, a pouring channel, and an upper part which comprises pouring means; also comprising a flat partition (3) which separates the lower part and the upper part, said flat partition (3) containing a slit (4) which ends in two holes (4a, 4b) of different areas for obtaining two different flow rates, wherein the holes (4a, 4b) are located on the edge of the cap.

Inventors

MARTINEZ CARREGUI ALBERTO

GARCIA ZARAGOZA JOSÉ

Latest standardized assignees - inventors removed

BORGES BRANDED FOODS SLU

Family 3/50 - FAMPAT - ©Questel

Title

(EP1321375)

Dispensing package for viscous liquid product

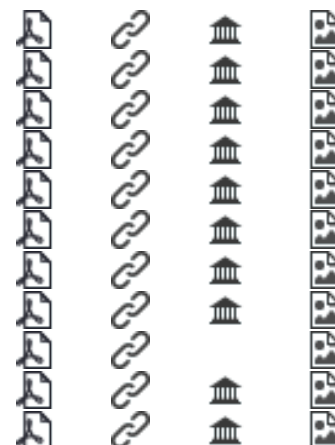
Images

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EP1321375	A2	2003-06-25	EP1321375
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EP0791542	B1	2003-05-28	EP-791542
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BR9701051	A	1998-12-15	BR9701051				
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CA2198065	A1	1997-08-21	CA2198065				
BRPI9701051	A1	1997-06-10	BR9701051				

IPC - International classification

B65D-047/08; B65D-047/08; B65D-047/20; B65D-047/30

Abstract

(EP1321375)

A dispensing package (20) including a plastic container (22) having a surface recessed in portion of the container (22) and an opening (33) in the recessed portion (28) of the container (22) and a valve system (24) in overlying position to the opening and including a valve member (38) movable manually from a closed position to an open dispensing position is disclosed. The container (22) has a flexible portion (26) which can be squeezed for dispensing the product through the opening (33). In one form, the valve system (24) comprises a fitment (36) and a toggle valve pivoted on the fitment (36). The toggle valve includes a discharge passage (70) which is closed and opened so that the product can be dispensed by squeezing the container (22). In another form, the toggle valve is pivoted directly in the recess (28a) on the plastic container (22). In another form, the valve system (24c) consists of a fitment (36c) having an opening (52c) and a valve member (38c) hinged to the fitment (36c). In another form, the valve system (24d) comprises a valve member (38) which engages a complementary surface on the opening of the container (22) and is movable by a toggle action. The recess (28) may extend partially across the upper surface of the container (22) or completely across the upper surface of the container (22). In some forms, the plastic container (22) has a modified upper surface to minimize accumulation of liquid product adjacent the outlet (53) of the container (22).

Inventors

FLAK FRANK

Latest standardized assignees - inventors removed

GRAHAM PACKAGING PLASTIC PRODUCTS

GRAHAM PACKAGING

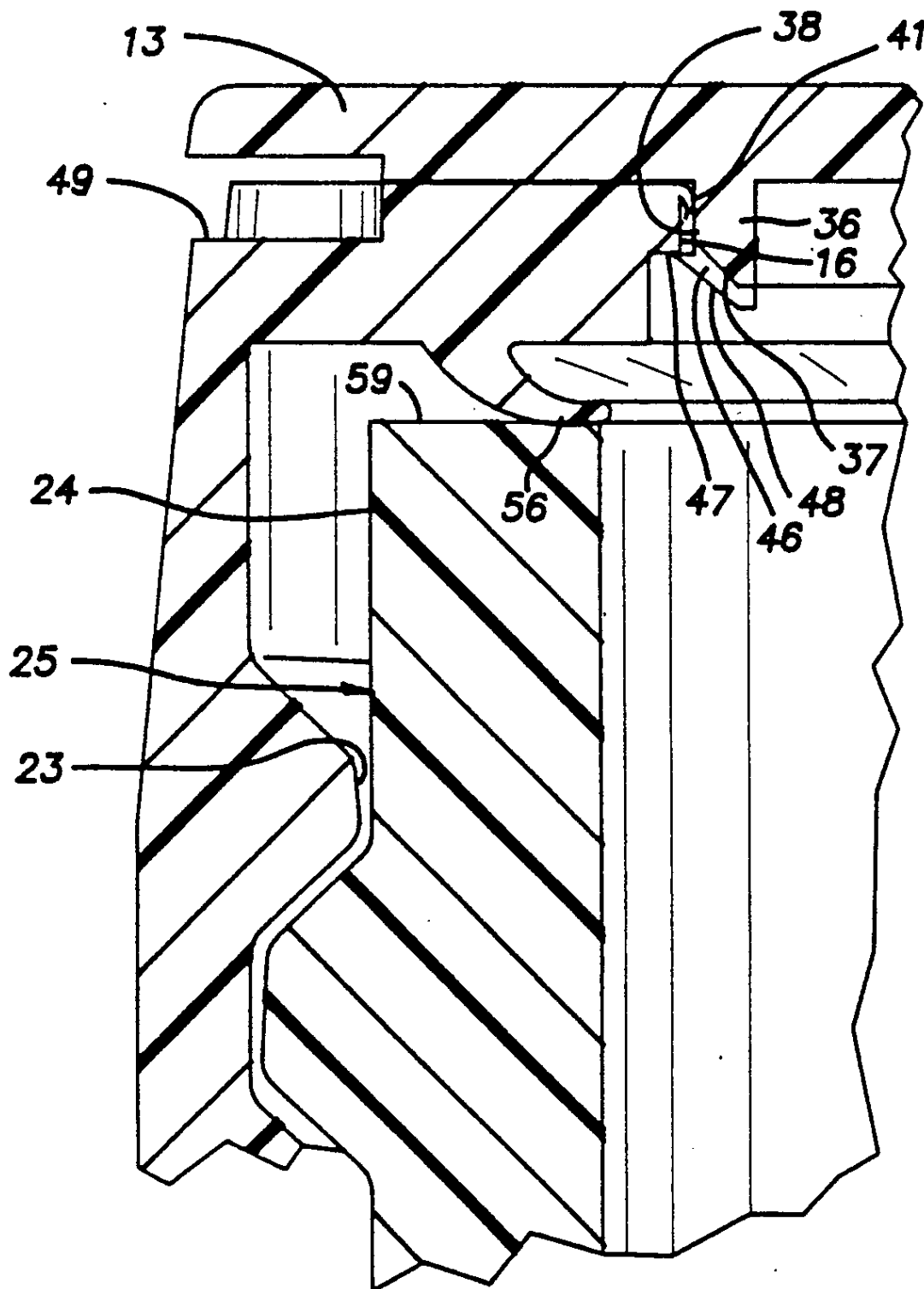
Family 4/50 - FAMPAT - ©Questel

Title

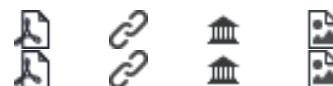
(US5048730)

Moisture-resistant dispensing top

Images


Publication numbers with kind code & date

CA2041447	A1	1991-11-11	CA2041447
US5048730	A	1991-09-17	US5048730


IPC - International classification

B65D-047/08; B65D-047/08

Abstract

(US5048730)

A screw on container closure has a hinged flap on a dispensing aperture for spooning out product. The flap and aperture have a sealing flash structure that provides a moisture resistant seal therebetween. An integral resilient sealing flange within the closure provides a moisture-resistant seal on the mouth of a container.

Inventors

FORSYTH MICHAEL J

WIEDMAN CRAIG C

Latest standardized assignees - inventors removed

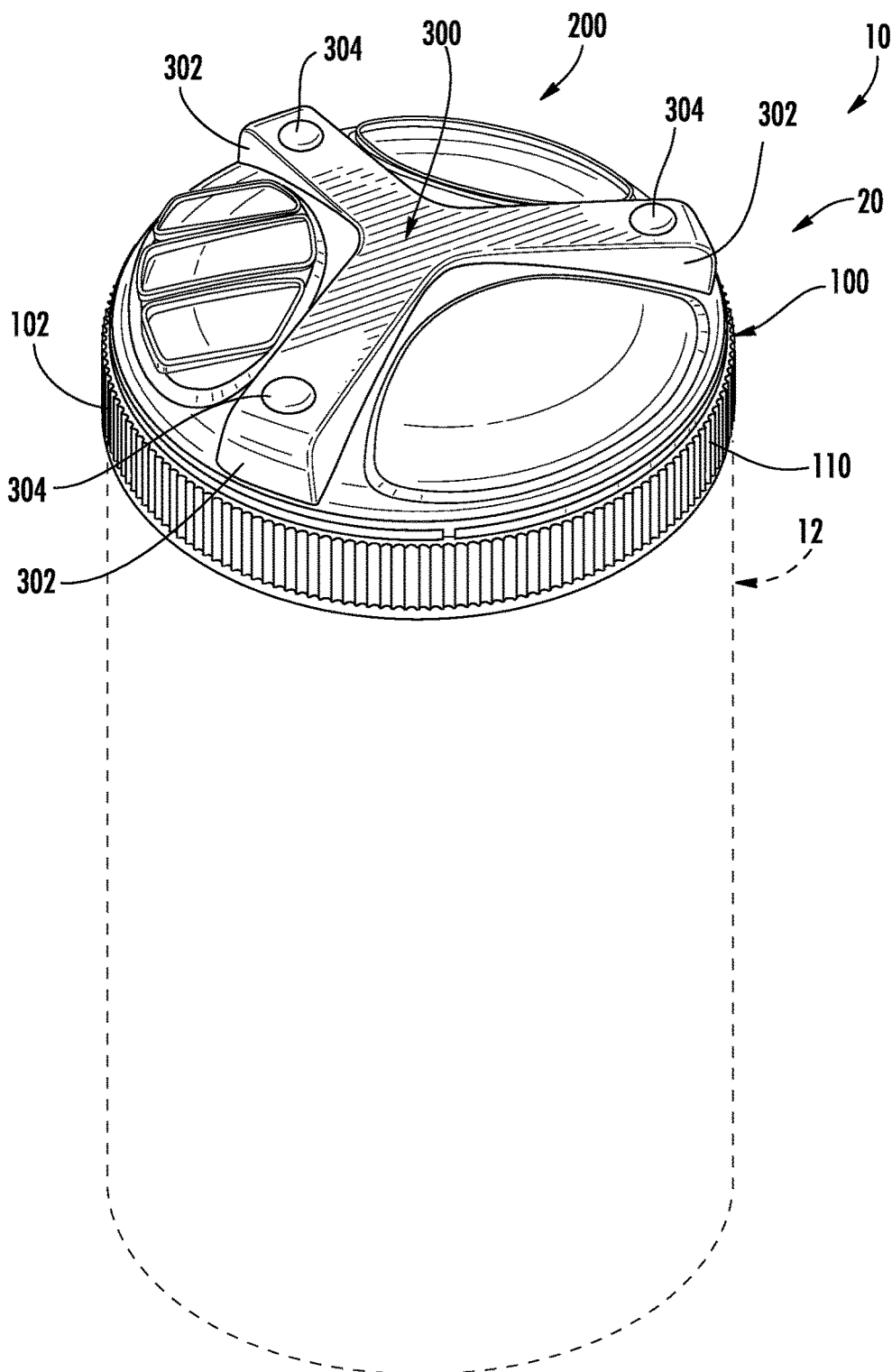
WEATHERCHEM

Family 5/50 - FAMPAT - ©Questel

Title

(US9868572)

Closure for a container

Images

[US20160376078](#)

A1

2016-12-29

US20160376078

**IPC - International classification**

B65D-021/02; B65D-025/28; B65D-043/02; B65D-047/26; B65D-051/18; B65D-051/20

Abstract

(US20160376078)

A closure includes a body having an open bottom formed of a skirt that defines an outer periphery of the body and an end wall defining a body dispensing aperture and a raised body portion providing a closed barrier. The closure also includes a cover coupled to the end wall of the body and having a cover dispensing aperture, the cover being rotatably movable relative to the body between a dispensing position with the cover dispensing aperture substantially aligned with the body dispensing aperture, and a closed position with the cover dispensing aperture substantially aligned with the raised body portion, wherein the cover dispensing aperture includes one or more dividers defining sub-apertures.

Inventors

VOGEL WILLIAM C

PARVE TERRENCE M

PROUDFOOT ROBERT E

Latest standardized assignees - inventors removed

GATEWAY PLASTICS

Family 6/50 - FAMPAT - ©Questel

Title

(EP-373989)

Cap closure for a container provided with pivoting means for dispensing the contents of this container

Images

B65D-047/08; B65D-047/08; B65D-047/20; B65D-047/24

Abstract

(EP0373989)

This cap (2) comprises an adaptor (3) consisting of a sleeve (9) which fits onto a bottle (1) and is joined to a head (11) carrying a sealing skirt. On the head (11) a sunk area (15) is formed, delimited by wings (16) and by a base which comprises a forward upper platform (18) provided with a hole (22) for letting the substance out and a rear lower platform (19). The cap also comprises an obturator (4) consisting of a base plate (29) which carries two lateral journals (42) pivoting in seatings (25) let into the wings (16). A step (17) separates the platforms (18,19). The substance is let out towards the front through a channel (43) defined between the platform (18) and the tubular wall (37,29) of the obturator (4). <IMAGE>

Inventors

REVENU, CHRISTIAN

GOYET, DANIEL

Latest standardized assignees - inventors removed

L'OREAL

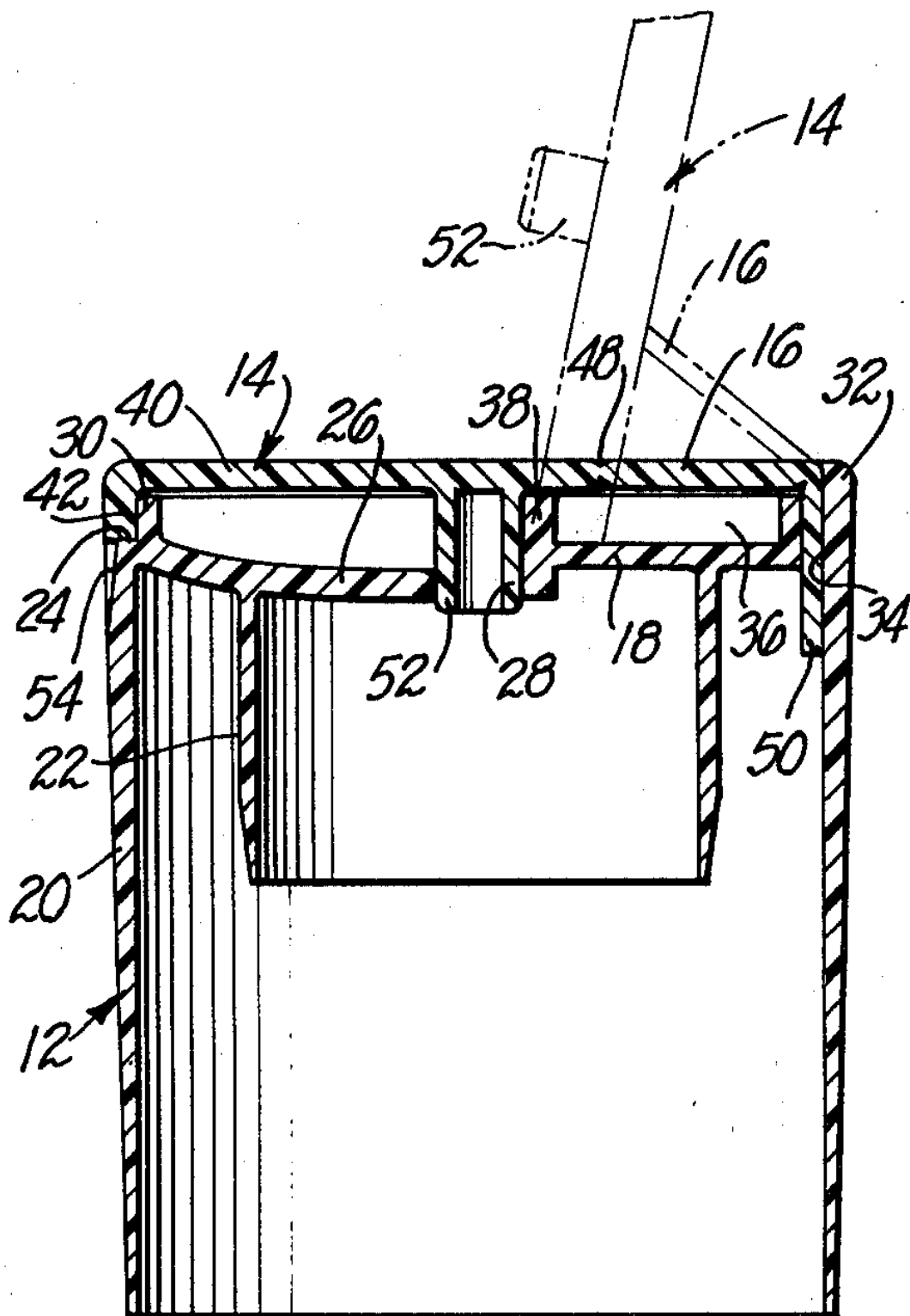
Family 7/50 - FAMPAT - ©Questel

Title

(US4172540)

Dispensing closure

Images



Publication numbers with kind code & date

IT1089205	B	1985-06-18	IT1089205
SE432405	B	1984-04-02	SE-432405
DK145852	C	1983-09-05	DK-145852C
FR2375106	B1	1983-06-03	FR2375106
DK145852	B	1983-03-21	DK-145852
AT366979	B	1982-05-25	AT-366979
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ATA927977	A	1981-10-15	AT7709279
GB1592570	A	1981-07-08	GB1592570
CA1104524	A	1981-07-07	CA1104524



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JPS5382584	A	1978-07-21	JP53082584				
NL7713899	A	1978-06-27	NL7713899				
DK577077	A	1978-06-25	DK7705770				
SE7714593	A	1978-06-25	SE7714593				
BE862298	A	1978-06-23	BE-862298				
DE2658805	B1	1978-04-06	DE2658805				

IPC - International classification

B65D-047/08; B65D-047/08

Abstract

(US4172540)

A dispensing closure having a cap with an opening extending through the top of the cap and having a lid mounted on the cap so that it is capable of being moved between a closed position in which the lid closes off the opening and an open position in which the opening is exposed can be constructed so as to utilize a spring mounting the lid on the cap. One of the ends of the spring employed is secured to the cap so that the spring is incapable of being pivoted relative to the cap while the other of the ends of the spring is pivotally connected to the lid. The spring is connected to the lid at a location such that the spring has to be bent and such that the lid has to be pivoted relative to the spring in order for the lid to be moved between the noted open and closed position. The spring serves to hold the lid relative to the top of the cap so that the lid is held against movement in the open position by the spring.

Inventors

ERICHSON HERBERT

Latest standardized assignees - inventors removed

POLYTOP

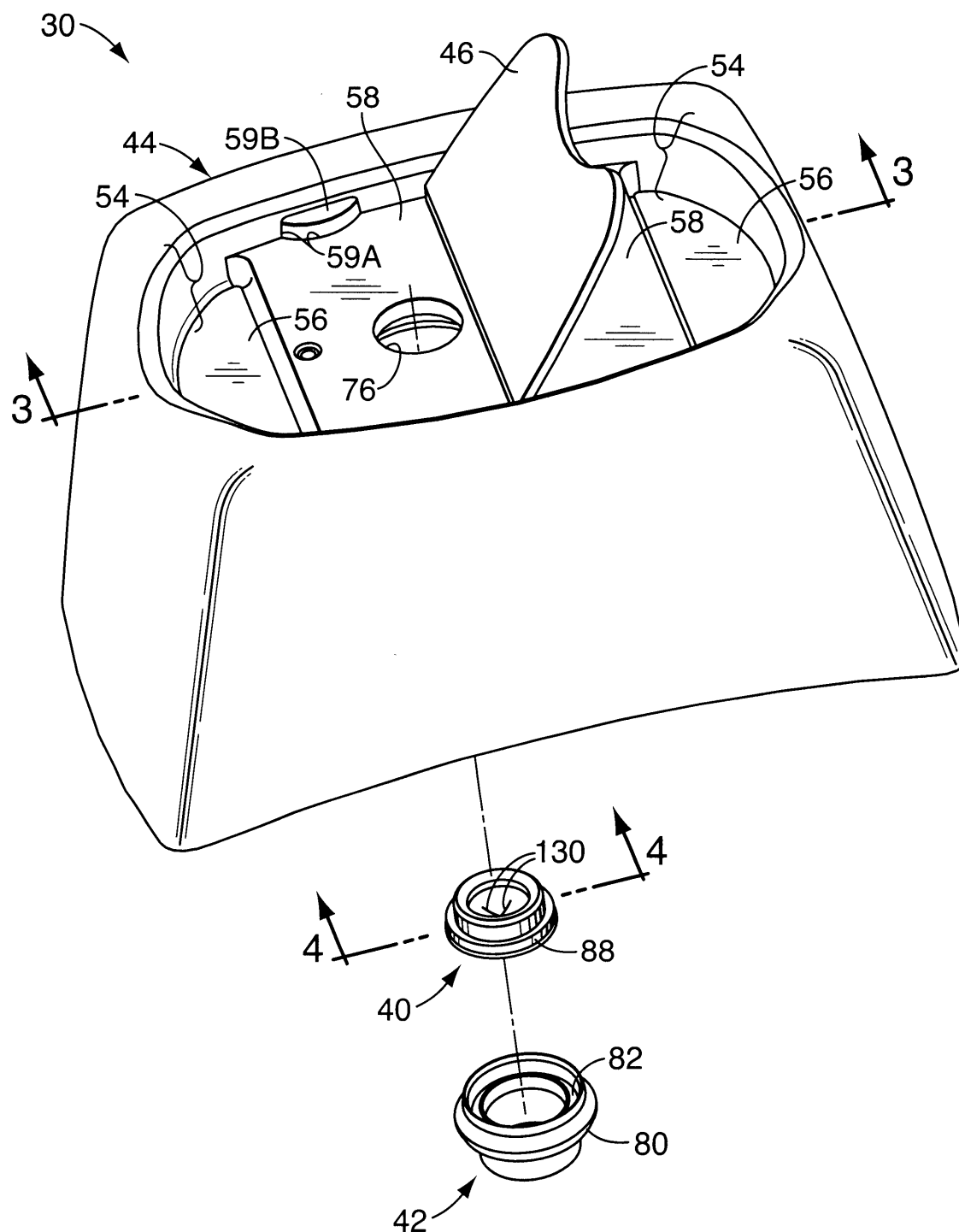
Family 8/50 - FAMPAT - ©Questel

Title

(EP1451075)

Closure with pressure-actuated valve and lid seal

Images


Publication numbers with kind code & date

IN269297	B	2015-10-16	IN-269297
CA2464052	C	2010-01-12	CA2464052
PL202122	B1	2009-06-30	PL-202122
HK1076081	A1	2007-11-23	HK1076081
AU2002352635	B2	2007-11-22	AU2002352635
ES2278993	T3	2007-08-16	ES2278993
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CN1309624	C	2007-04-11	CN1309624C
RU2296087	C2	2007-03-27	RU2296087
DE60217901	D1	2007-03-15	DE60217901
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IN0992/DELNP/2004	A	2006-08-04	IN2004DN00992
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EP1451075	A1	2004-09-01	EP1451075				
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CA2464052	A1	2003-06-19	CA2464052				
WO03/050008	A1	2003-06-19	WO200350008				
US20030106910	A1	2003-06-12	US20030106910				

IPC - International classification

B65D; B65D-001/00; B65D-025/40; B65D-025/40; B65D-047/08; B65D-047/20

Abstract

(EP1451075)

A dispensing valve (40) is mounted in a dispensing aperture (76) of a closure (20) that has (1) a deck (56) around the aperture (76), and (2) a 5 hinged lid (46) for closing over the aperture (76). The valve (40) includes a marginal portion (88), a head portion (90) with a discharge orifice (130) therein, and a resilient, connector sleeve (94) extending between the marginal portion (88) to the head portion (90). The connector sleeve (94) has a generally U-shaped cross-section that defines a first leg (151) that is connected with the marginal portion (88) and a shorter second leg (152) connected with the head portion (90). The connector sleeve (94) locates the head portion (90) below the closed lid (46). An arcuate junction portion (160) of the connector sleeve (94) joins the first and second legs. The arcuate junction portion (160) projects from the deck aperture (76) when the lid (46) is open. When the lid (46) is closed, the arcuate junction portion (160) is engaged and elastically deformed by the lid (46), and that prevents the valve orifice (130) from opening.

Inventors

HICKS MARGE M

SOCIER TIMOTHY R

Latest standardized assignees - inventors removed

SEAQUIST CLOSURES FOREIGN

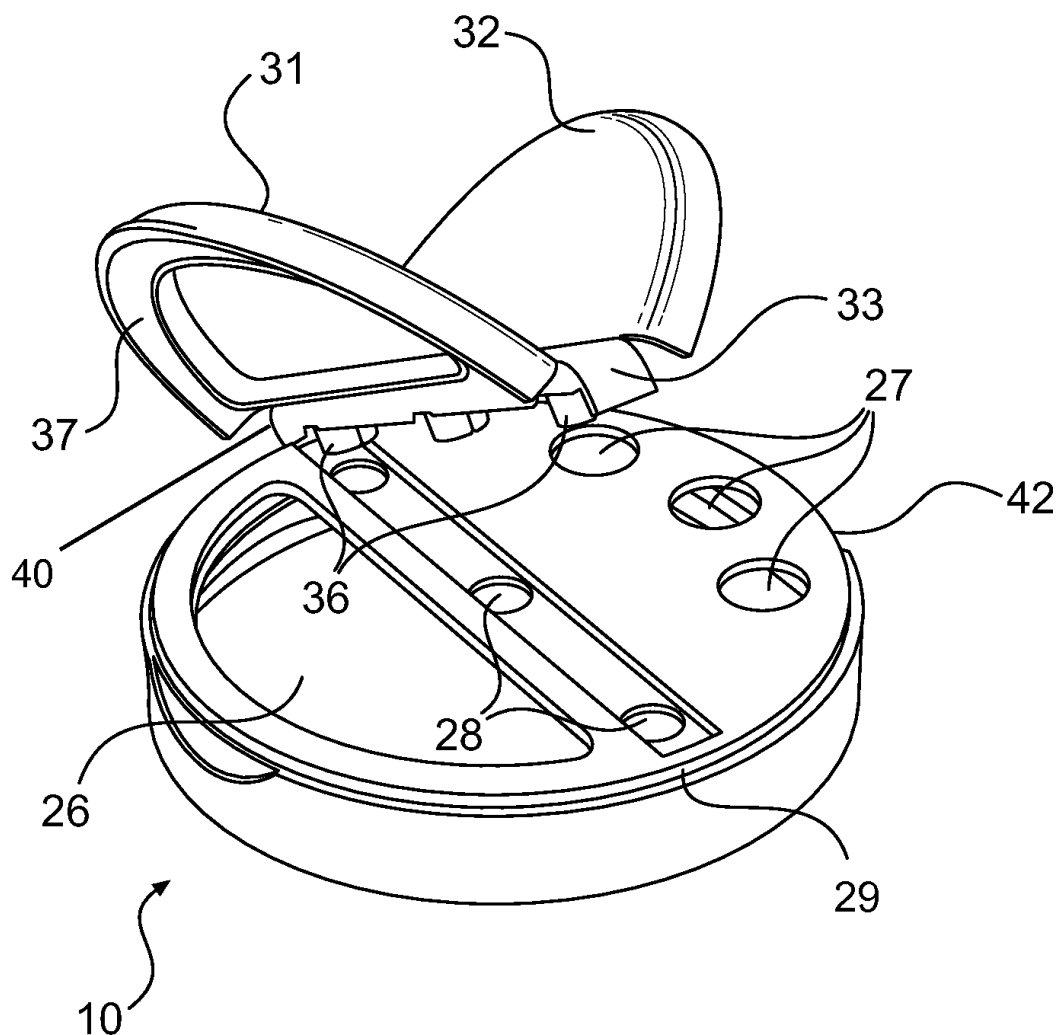
Family 9/50 - FAMPAT - ©Questel

Title

(US9371162)

One-piece dispensing closure

Images



Publication numbers with kind code & date

CA2688363	C	2016-11-08	CA2688363
US9371162	B2	2016-06-21	US9371162
US20100140304	A1	2010-06-10	US20100140304
CA2688363	A1	2010-06-09	CA2688363



IPC - International classification

B65D-043/00; B65D-043/16; B65D-047/08; B65D-047/08

Abstract

(US20100140304)

A one-piece dispensing closure is disclosed. The one-piece dispensing closure includes a base, a lid having a first flap and means to irreversibly attach to the base, a first living hinge connecting the base to the lid, and a second living hinge connecting the first flap to the lid. The simplistic design of the dispensing closure allows for easy production of dispensing closures of different shapes and sizes.

Inventors

WALUNIS STEVE

DAGGETT BARRY MICHAEL

Latest standardized assignees - inventors removed

WEATHERCHEM

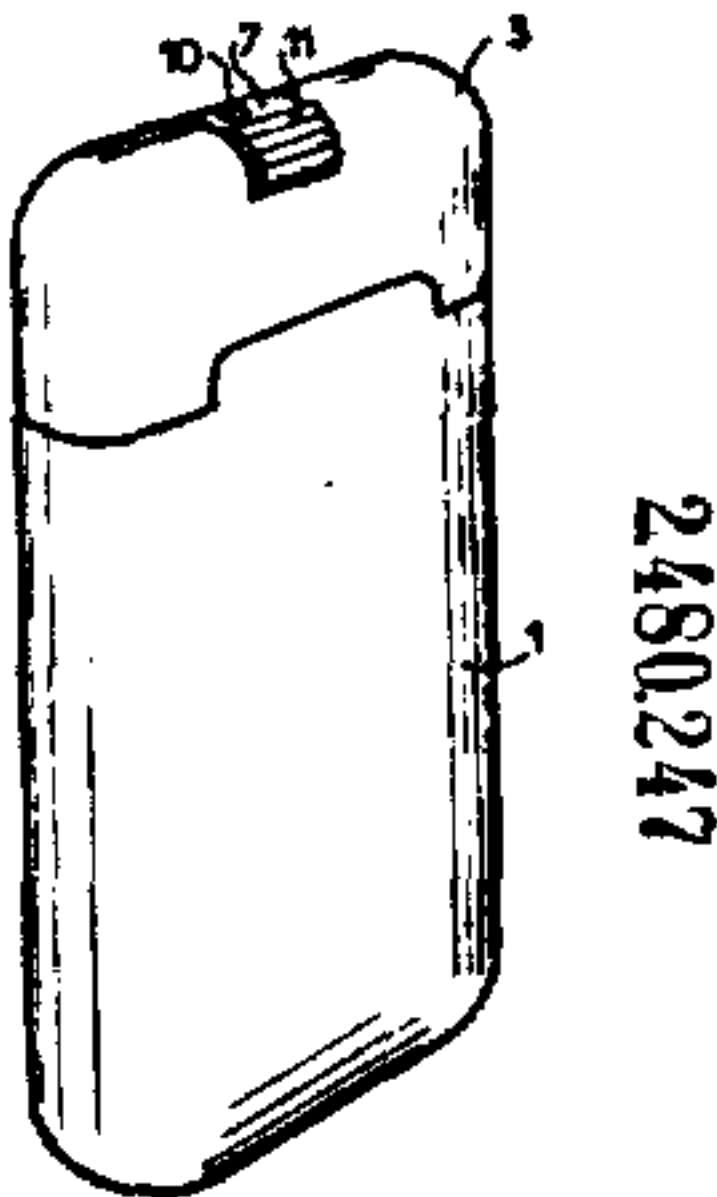
Family 10/50 - FAMPAT - ©Questel

Title

(FR2480247)

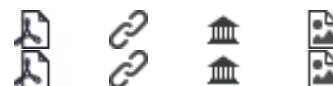
Scent flask with dispenser - has cylinder turned by thumb to open diametral hole through lid of container

Images



Publication numbers with kind code & date

FR2480247	B1	1983-10-21	FR2480247
FR2480247	A1	1981-10-16	FR2480247



IPC - International classification

B65D-047/30; B65D-047/30

Abstract

(FR2480247)

The flask (1) has a rectangular section and is closed by a cap (3) which carries the distributor. The flask is enclosed below a top membrane which has a small central opening (2). The lid clips over the edges of the container at the side lugs (4). The distributor consists of a horizontal cylinder which has a diametral hole (10). The cylinder is supported in end trunnions and has a knurled surface (11) to allow the cylinder to be rotated to open or close the opening (10).

Inventors

COUDANE GEORGES

Latest standardized assignees - inventors removed

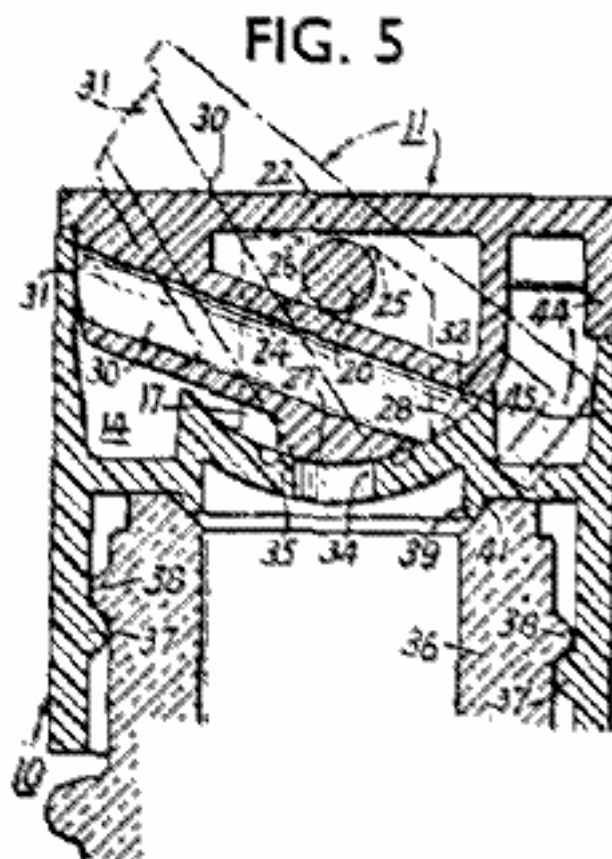
L'OREAL

Family 11/50 - FAMPAT - ©Questel

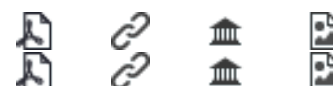
Title

(GB1274916)

Improvements in or relating to dispensing closure assemblies for bottles or other containers

Images**Publication numbers with kind code & date**

CA943481	A	1974-03-12	CA-943481
GB1274916	A	1972-05-17	GB1274916

**IPC - International classification**

B65D-047/26; B65D-047/30; B65D-083/06

Abstract

(GB1274916)

1,274,916. Dispensing closures. ATLANTIC DESIGN & DEVELOPMENT CORP. 10 June, 1969 [10 June, 1968; 16 Sept., 1968], No. 29393/69. Heading B8T. A plastics dispensing closure assembly (10), Fig. 1 (not shown), comprises a closure member 11 which is pivotable between the solid and broken lines shown, by the application of finger pressure to the forward and rearward portions thereof respectively. An entrance port 32 in the member 11, through which the contents of container 36 pass, is connected to an exit port 31 through a substantially cylindrical passage 30 and aligns with an opening 34 in the closure assembly when in the open position (shown in broken lines). In its closed position the surface 27 seals the opening 34, on annular bead 35, providing a leakproof seal between the opening 34 and surface 27 while a similar seal is provided between the closure assembly (10) and container 36 by the annular bead 39. Because of the elasticity of the plastics material the application of finger pressure to the rearward portion of closure member 11 causes the depending skirt 44 to disengage from the wall portion 45 and pivot about the shaft 20 into its open position. The assembly may be secured to the container 36 by means of screw threads 37 or alternatively by means of an inwardly protruding annular rib engaging with an annular rib on the container neck, Fig. 6 (not shown). In a modification, Figs. 6-8 (not shown), which is particularly

adapted for continuous pouring of liquids an air vent (74) is provided in the pivotal closure member. In a further modification, Figs. 9-12 (not shown), a dispensing container (110) for use with particulate matter has a pivoting cover (122) with spaced toothlike projections (130) projecting into an opening (118) in the container (110). When in the open position of the cover (122) the teeth are not completely withdrawn from the opening, thus providing a sieve like passage through which the particulate matter is dispensed.

Inventors

WATERMAN NEIL S

Latest standardized assignees - inventors removed

ATLANTIC DESIGN & DEVELOPMENT

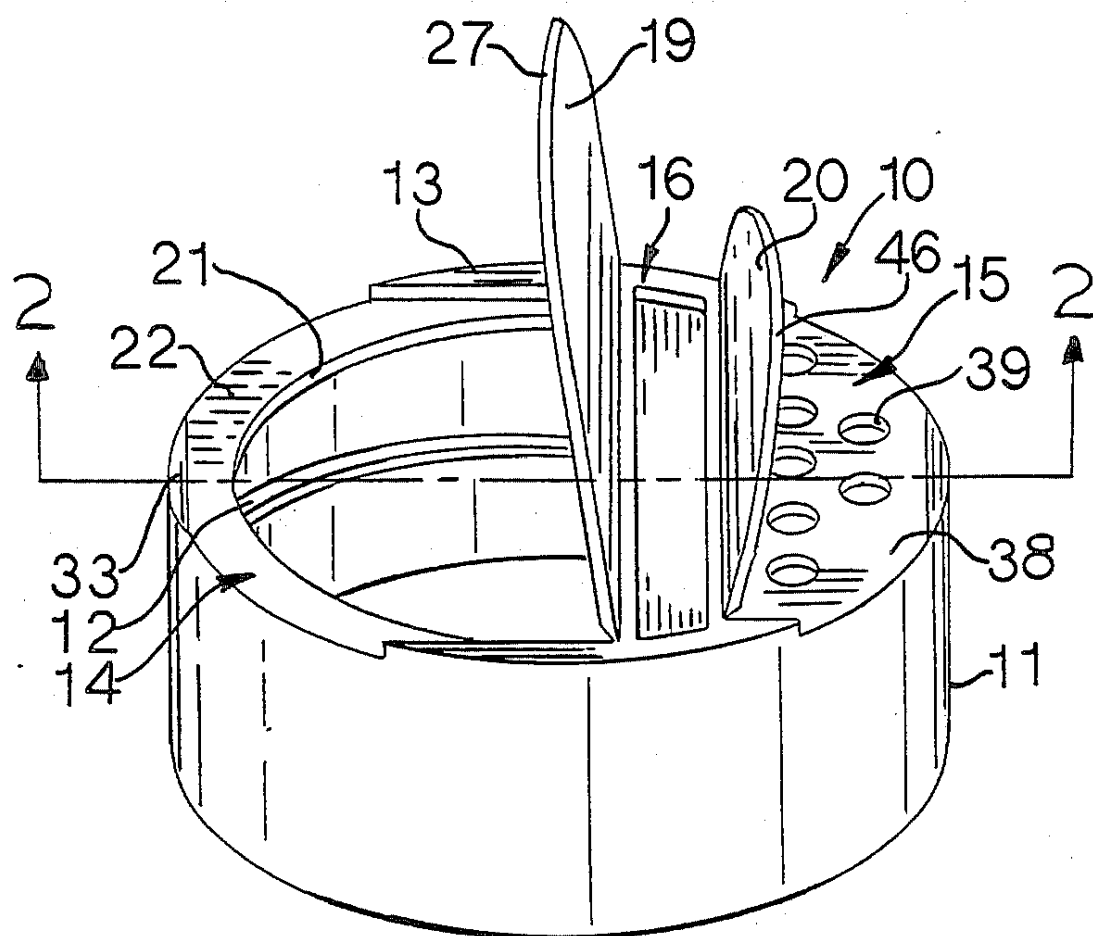
Family 12/50 - FAMPAT - ©Questel

Title

(US4693399)

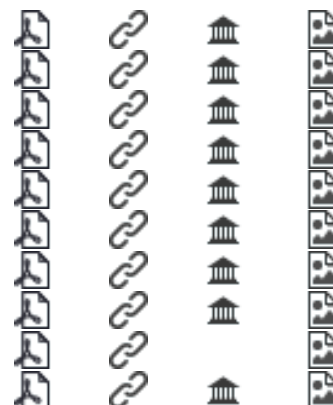
Two-flap closure

Images



Publication numbers with kind code & date

DE3734156	C2	2002-10-17	DE3734156
USRE37634	E1	2002-04-09	USRE37634
FR2605294	B1	1991-05-31	FR2605294
GB2197857	B	1990-05-23	GB2197857
CA1245601	A	1988-11-29	CA1245601
GB2197857	A	1988-06-02	GB2197857
FR2605294	A1	1988-04-22	FR2605294
DE3734156	A1	1988-04-21	DE3734156
GB8724197	D0	1987-11-18	GB8724197
US4693399	A	1987-09-15	US4693399



IPC - International classification

B65D-047/08; B65D-047/08

Abstract

(US4693399)

An injection-molded thermoplastic closure with shake-and-spoon apertures and associated flaps for selectively closing and opening the apertures. The flaps are releasably retained in their closed positions by catch elements which provide retention forces that are relatively insensitive to dimensional and shape variations in the body resulting from the molding process. In one embodiment, the cap has "freeze points" and a gate location that reduce the tendency of the cap to assume an oval condition when cooled from molding temperatures. A wide sealing ledge cooperates with a central support for a liner seal positioned in the cap to seal the mouth of a container.

Inventors

HICKMAN JOHN R

WEIDMAN CRAIG C

Latest standardized assignees - inventors removed

WEATHERCHEM

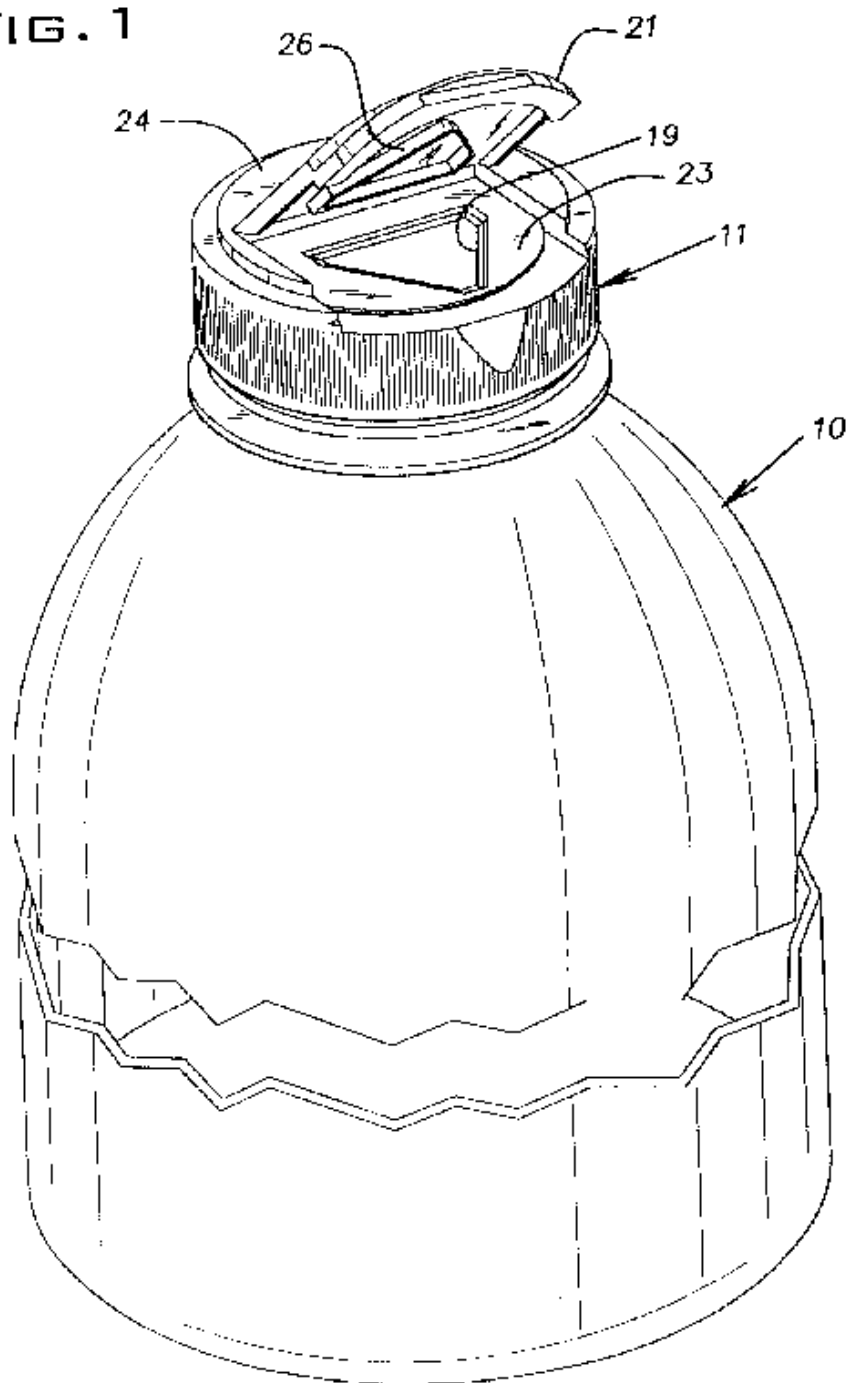
Family 13/50 - FAMPAT - ©Questel

Title

(WO200240392)

Closure for liquids

Images

FIG. 1**Publication numbers with kind code & date**

AU1611501	A	2002-05-27	AU200116115
WO02/40392	A1	2002-05-23	WO200240392
US6164503	A	2000-12-26	US6164503

**IPC - International classification**

B65D-041/04; B65D-047/08; B65D-051/20; B65D-051/22; B65D-053/00; B67D-003/00; B67D-007/32

Abstract

(WO02/40392)

A screw-on closure for bottles (10) that initially works with an induction seal liner (37) and provides a leak resistant reseal (33) on the bottle after the liner (37) is removed. The closure has a unique annular convex sealing surface and the closure body area supporting it are sufficiently massive to withstand the heat generated in an induction liner sealing process and

have a geometry that promotes a line contact with the mouth of the bottle to ensure a drip resistant reclose. A dispensing aperture of the cap is sealed by a hinged flap (21) that has its sealing surface areas strategically located relative to the hinge to ensure repeated drip free opening and closing dispensing operation.

Inventors

FORSYTH MICHAEL J

BAXTER DAVID C

Latest standardized assignees - inventors removed

WEATHERCHEM

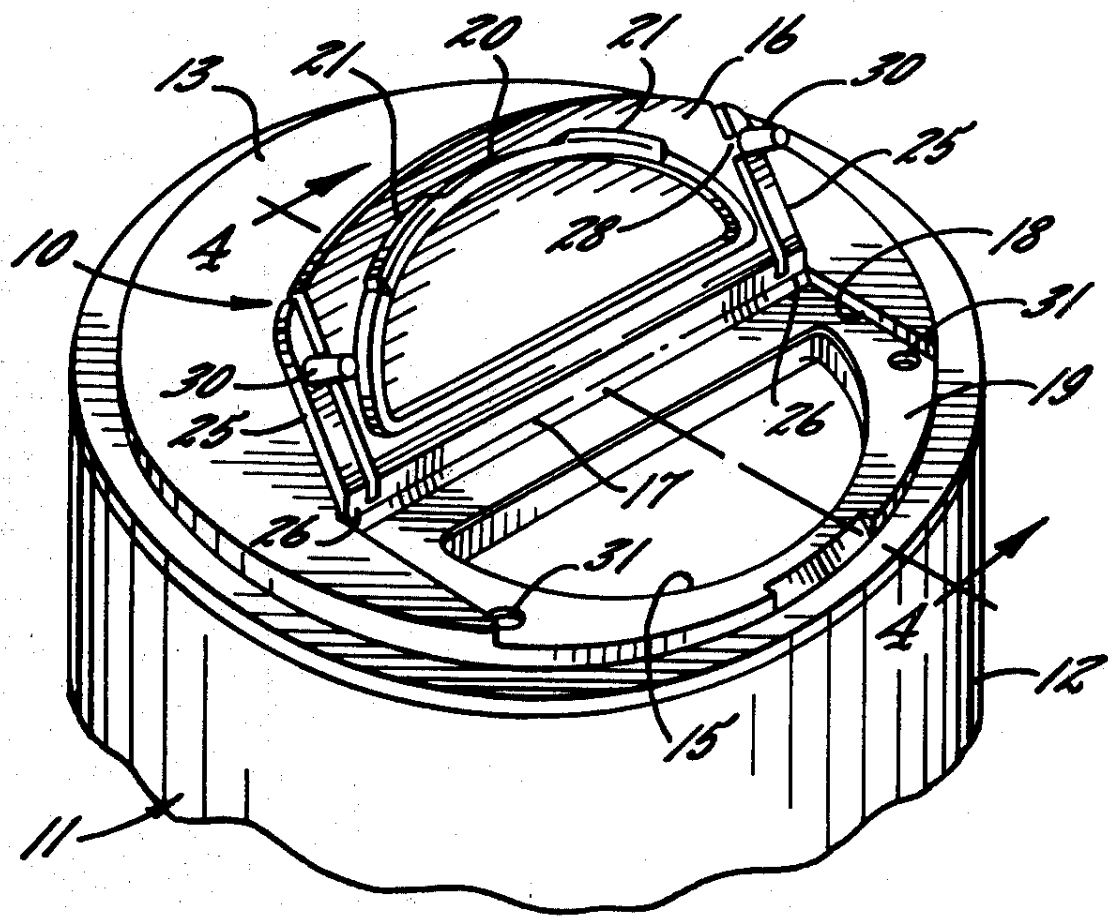
Family 14/50 - FAMPAT - ©Questel

Title

(US4361250)

Plastic container closure

Images



Publication numbers with kind code & date

US4361250

A 1982-11-30

US4361250



IPC - International classification

B65D-047/08; B65D-047/08

Abstract

(US4361250)

The hinged flap of a plastic container closure is molded while in an open position and, during molding of the flap, hinged strips with depending pins are formed along the sides of the flap and are integrally connected with the flap by tearable webs. After the flap has first been closed, the pins are anchored to the top of the closure and prevent the flap from opening during shipment of the container. Initial opening of the flap is effected by swinging the flap upwardly with a substantial force to tear the webs and separate the webs from the strips and the anchor pins, the torn webs providing a visual indication that

the flap has been opened.

Inventors

FOSTER JOHN A

Latest standardized assignees - inventors removed

J L CLARK

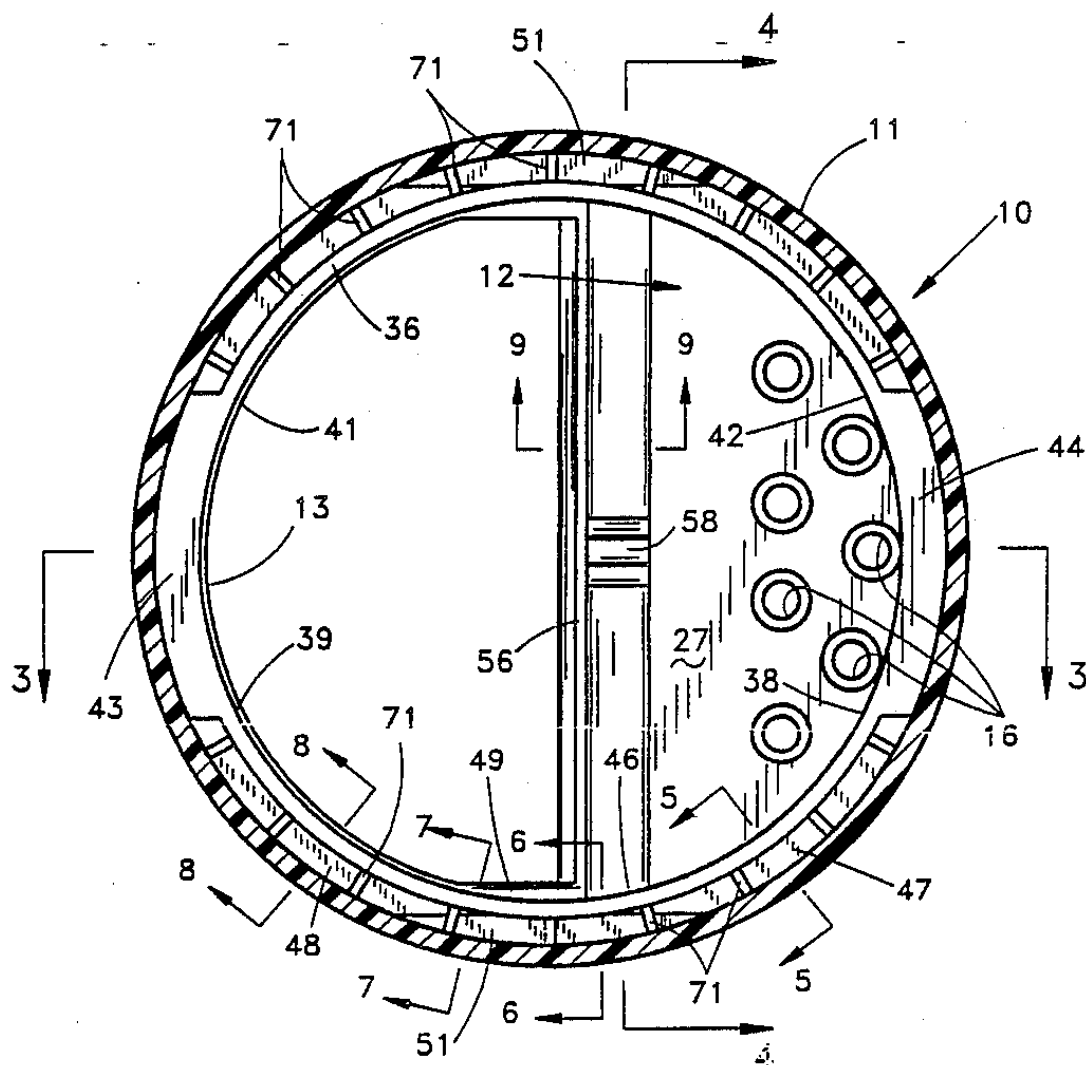
Family 15/50 - FAMPAT - ©Questel

Title

(US4936494)

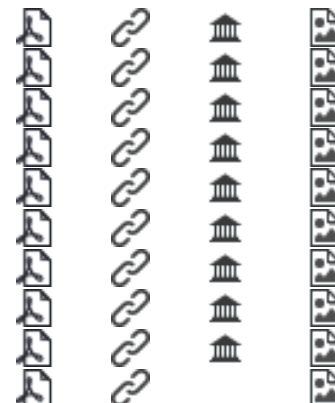
Two-flap container closure

Images



Publication numbers with kind code & date

DE3917057	C2	1999-11-25	DE3917057
CA1324590	C	1993-11-23	CA1324590
GB2221211	B	1993-01-06	GB2221211
FR2634738	B1	1991-12-13	FR2634738
US4936494	A	1990-06-26	US4936494
FR2634738	A1	1990-02-02	FR2634738
AU3389989	A	1990-02-01	AU8933899
DE3917057	A1	1990-02-01	DE3917057
GB2221211	A	1990-01-31	GB2221211
GB8910317	D0	1989-06-21	GB8910317



IPC - International classification

B65D-047/08; B65D-047/08

Abstract

(US4936494)

A shake-and-spoon cap for condiment containers and the like is formed of a one-piece injection-molded body. The cap provides a cylindrical skirt having inwardly projecting thread forms for mating with the male threads of a condiment container or the like. Two flaps are provided for selectively opening and closing a spoon opening and a plurality of shaker openings. The cap is structured so that the exposed end of the cap is a circular, planar surface when the flaps are closed. A sealing land inwardly spaced and concentric with the skirt is positioned to seal with the mouth of a container. The interior and exterior surfaces of the end wall are contoured so that substantially the entire cap has a uniform wall thickness. Peripherally spaced, radially extending ribs stiffen the cap between the land and the skirt to resist deflection and to ensure that the flap latching structure functions reliably.

Inventors

WEIDMAN CRAIG C

Latest standardized assignees - inventors removed

WEATHERCHEM

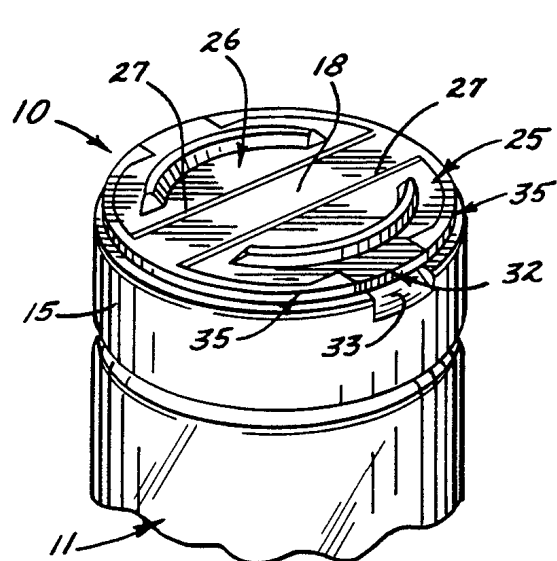
Family 16/50 - FAMPAT - ©Questel

Title

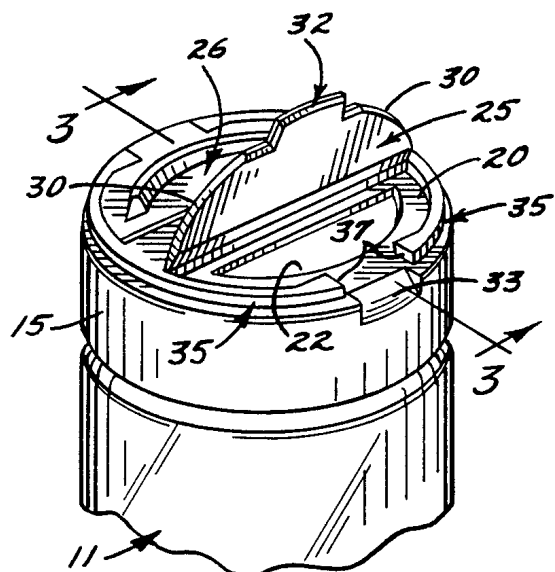
(EP-378902)

Container closure with hinged flap.

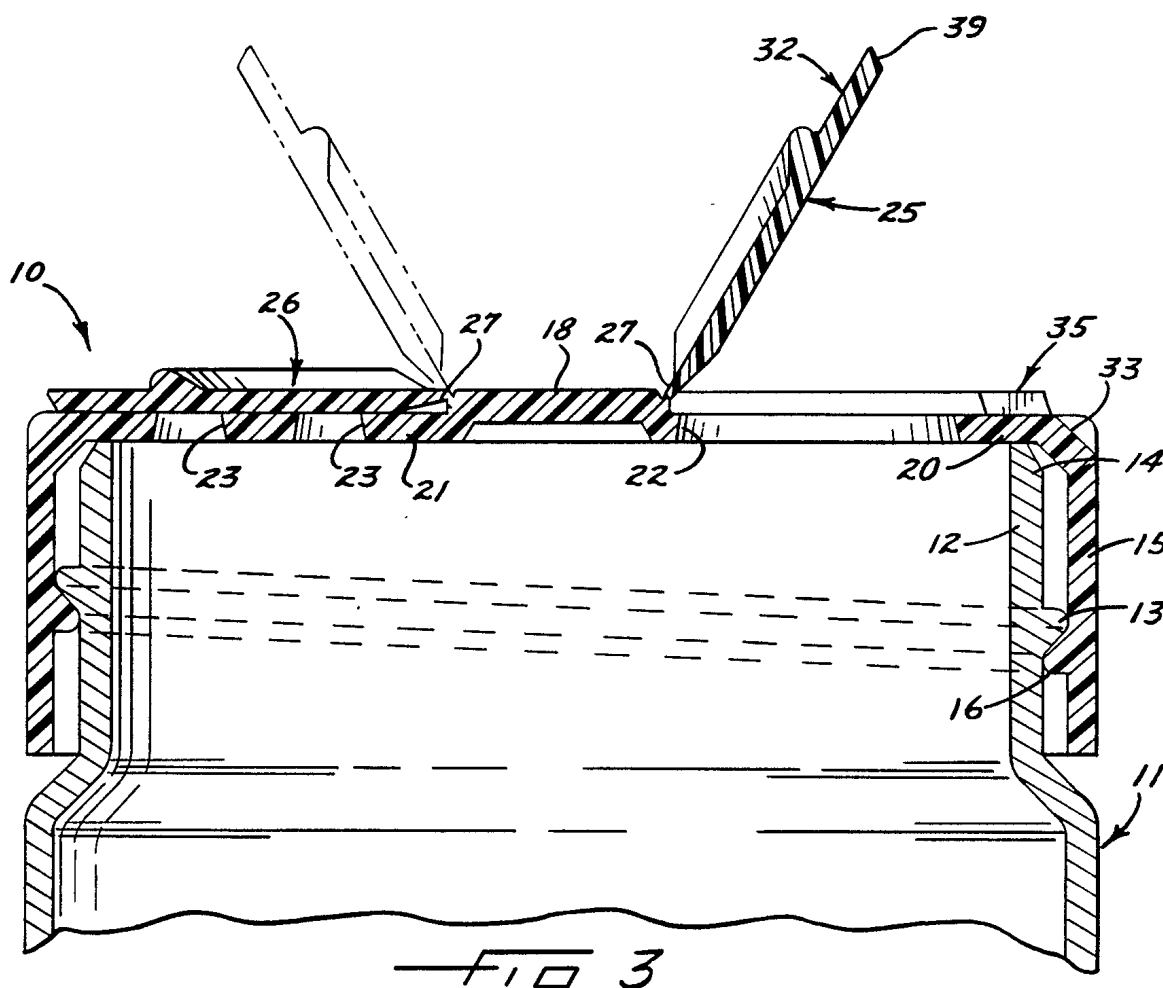
Images



—FIG. 1.



—FIG. 2.



—FIG. 3

Publication numbers with kind code & date

CA1331869
EP0378902

C 1994-09-06
A1 1990-07-25

CA1331869
EP-378902



[US4898292](#)

A

1990-02-06

US4898292

**IPC - International classification**

B65D-047/08; B65D-047/08

Abstract

(EP0378902)

A flap (25) is hinged on a container closure to swing between open and closed positions relative to a dispensing opening in the closure. When the flap (25) is closed, upstanding ribs (35) shield the free edge of the flap. A lift tab (32) projects outwardly from the free edge of the flap and extends between the ribs (35) to facilitate swinging of the flap to its open position. The flap (25) is held releasably in its closed position by virtue of the ends of the ribs (38) engaging the side edges of the tab (32) with a snap fit and also by virtue of straight sections (46) of the ribs engaging straight sections (45) on the free edge of the flap with a snap fit at areas located adjacent the tab.

Inventors

VERWEYST GORDON E

BURK CHARLES E

PHERIGO DOUGLAS E

Latest standardized assignees - inventors removed

J L CLARK

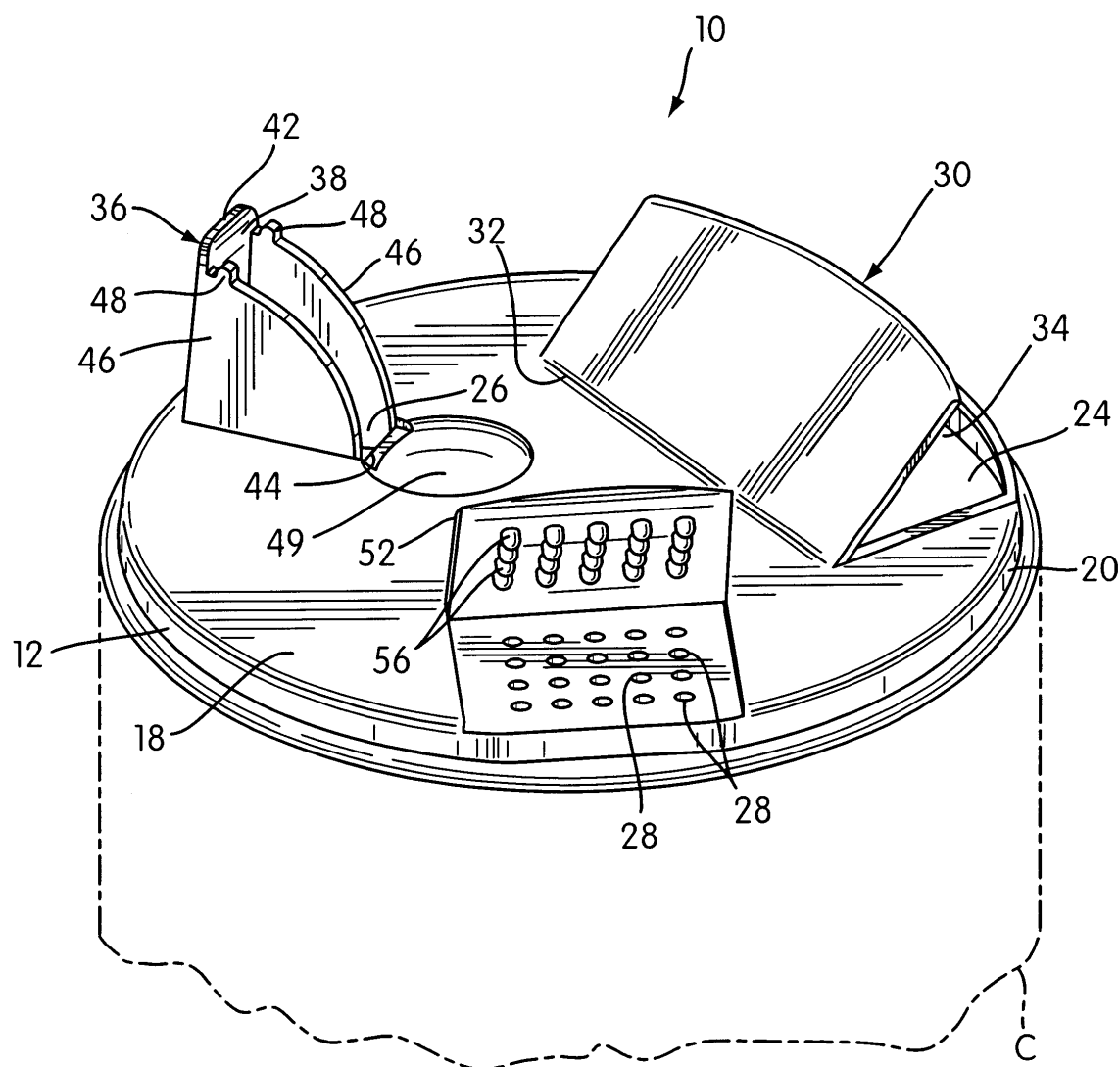
Family 17/50 - FAMPAT - ©Questel

Title

(US6341720)

Tri-closure dispensing top

Images

**Publication numbers with kind code & date**

US6341720

B1 2002-01-29

US6341720

**IPC - International classification**

B65D-047/04; B65D-047/04; B65D-047/08; B65D-083/06

Abstract

(US6341720)

A one-piece dispensing top has three separate dispensing ports. Each dispensing port is designed to dispense particulate foodstuffs from a container. One port is configured to allow removal of product with an utensil. A second port is configured to be used for pouring product and includes a spout, and a third port is configured for sifting product. Each dispensing port includes a closure flap for sealing. All three closure flaps are integrally joined to the dispensing top via living hinges. The closure flaps may be retained in the closed position by a friction or snap fit.

Inventors

SCHMIT MICHAEL ROBERT

KICK JAMES F

MORROW J MARK

Latest standardized assignees - inventors removed

P S

CARGILL

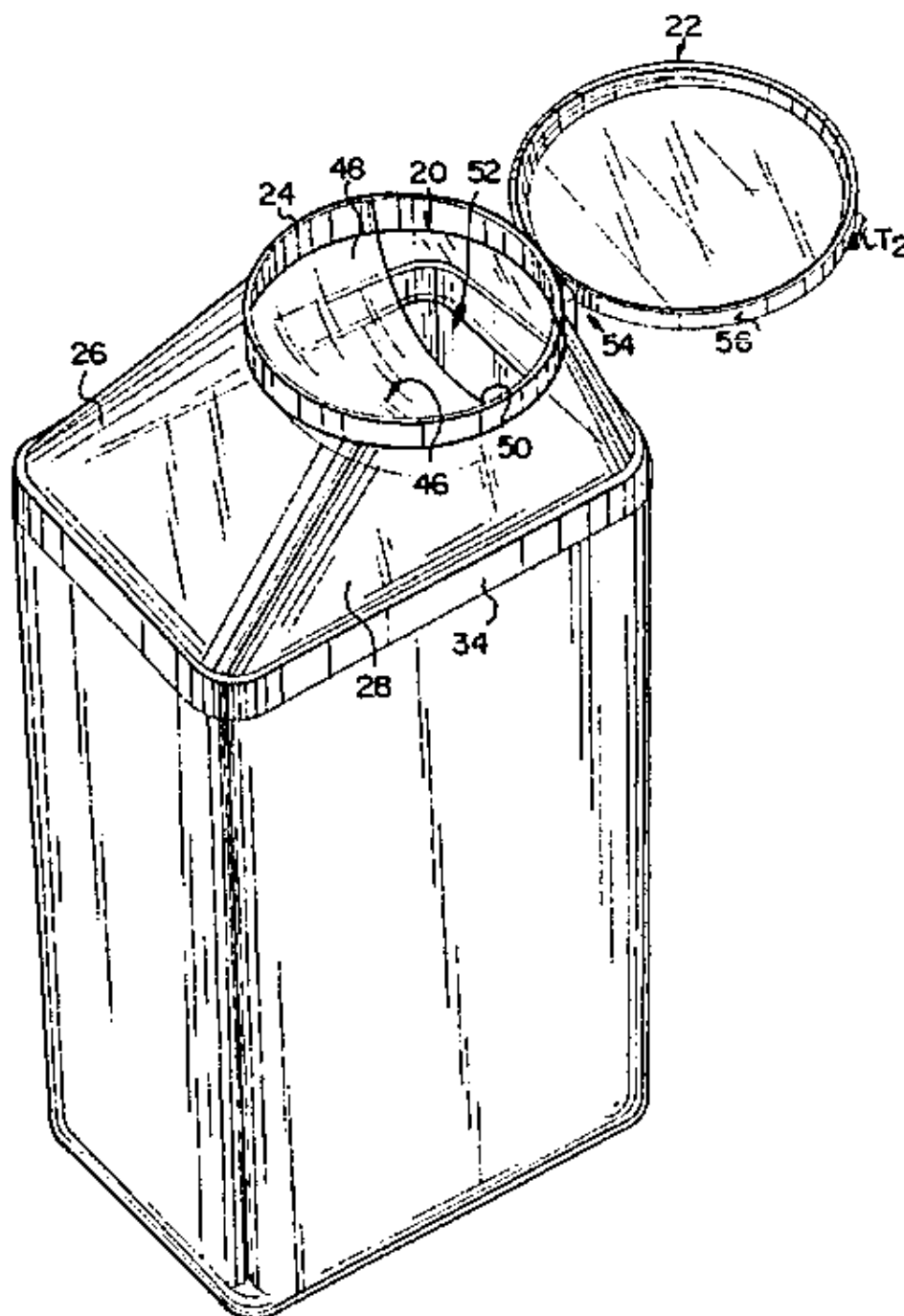
SONOCO DEVELOPMENT

Family 18/50 - FAMPAT - ©Questel

Title

(US5547109)

Container and measuring/dispensing cap assembly

Images**Publication numbers with kind code & date**[US5547109](#)

A

1996-08-20

US5547109

**IPC - International classification**

B65D-047/08; B65D-047/08; B65D-047/26; B65D-083/06; G01F-011/26

Abstract

(US5547109)

A container and measuring/dispensing cap assembly includes a container having a peripheral wall including four side wall portions, a bottom wall and an open upper end. A cap includes a top portion having a dispensing aperture defined by an upper rim and a pivotally mounted dispensing door engageable with the rim and a peripheral skirt portion tapering downwardly and outwardly from the top portion to a lower attachment rim adapted to secure the cap to the container. The

dispensing aperture and the dispensing door are located asymmetrically relative to the open upper end of the container, and a weir panel is located below the top portion of the cap, partially defining a measuring chamber in the cap. The weir panel includes a weir edge which, in combination with the upper rim, defines a weir aperture located wholly on one side of a center axis of the cap extending parallel to the weir edge, and the dispensing door is hinged to the skirt portion adjacent the weir aperture.

Inventors

ROBBINS III EDWARD S

Latest standardized assignees - inventors removed

UNION PLANTERS BANK

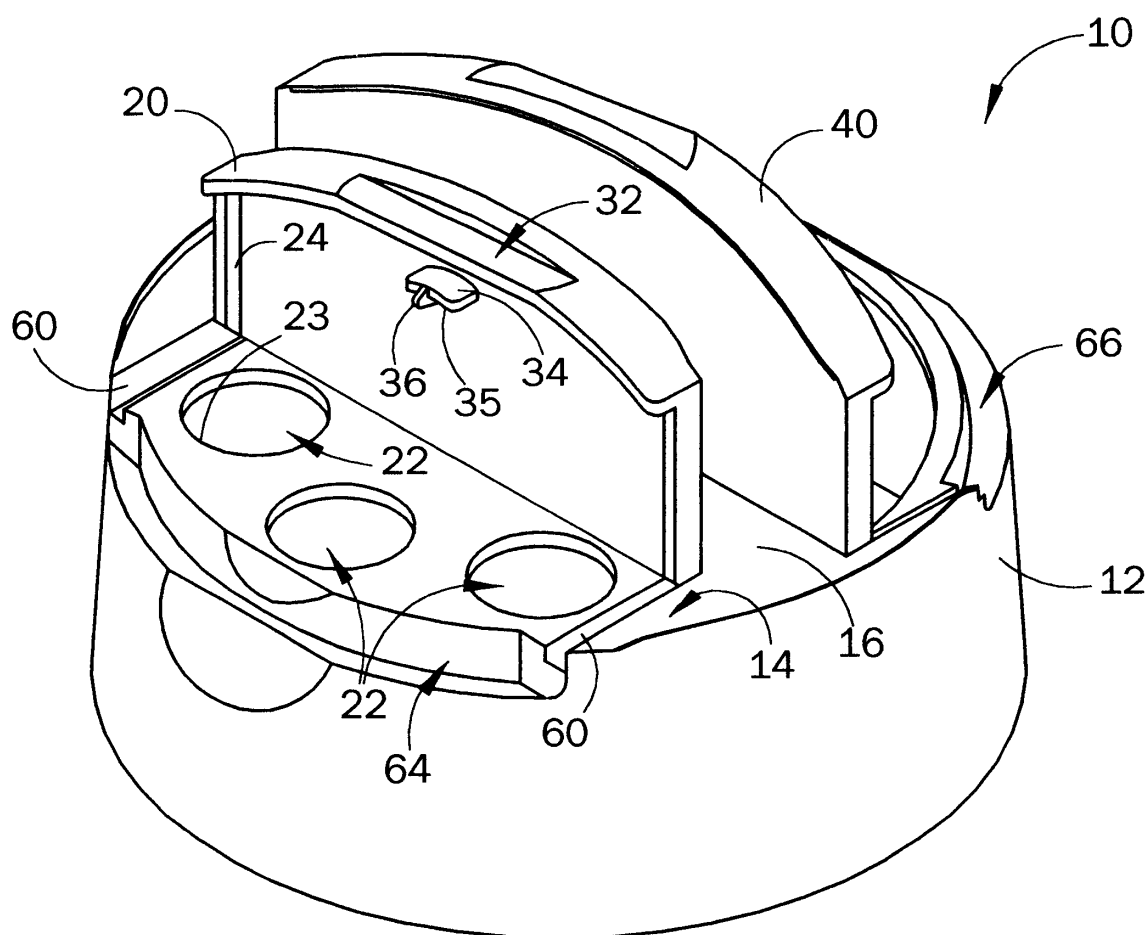
Family 19/50 - FAMPAT - ©Questel

Title

(US6691901)

Closure for a container

Images



Publication numbers with kind code & date

US7258255	B2	2007-08-21	US7258255
US7007830	B2	2006-03-07	US7007830
US20050023304	A1	2005-02-03	US20050023304
US20040134942	A1	2004-07-15	US20040134942
US6691901	B2	2004-02-17	US6691901
US20030111495	A1	2003-06-19	US20030111495



IPC - International classification

B65D-047/00; B65D-047/00; B65D-047/08; B65D-047/08

Abstract

(US20030111495)

A retainer is disclosed for a closure for a container, having a base portion and flaps for covering and uncovering dispensing openings. The retainer includes an interface coupled to the flap and configured to provide an interference with the base and a member coupled to the interface and configured to engage an edge of the base to eliminate the interference when the flap is moved to a closed position. A method of securing a flap to a closure for a container is disclosed and includes providing a flap hinged to the closure, coupling an interface to the flap, configuring the interface to provide at least a partial interference with a portion of the closure in a first position, providing a guide on the interface configured to engage an edge of the closure in the first position and eliminating the interference when the flap is moved to a second position.

Inventors

PARVE TERENCE M

VOGEL WILLIAM C

Latest standardized assignees - inventors removed

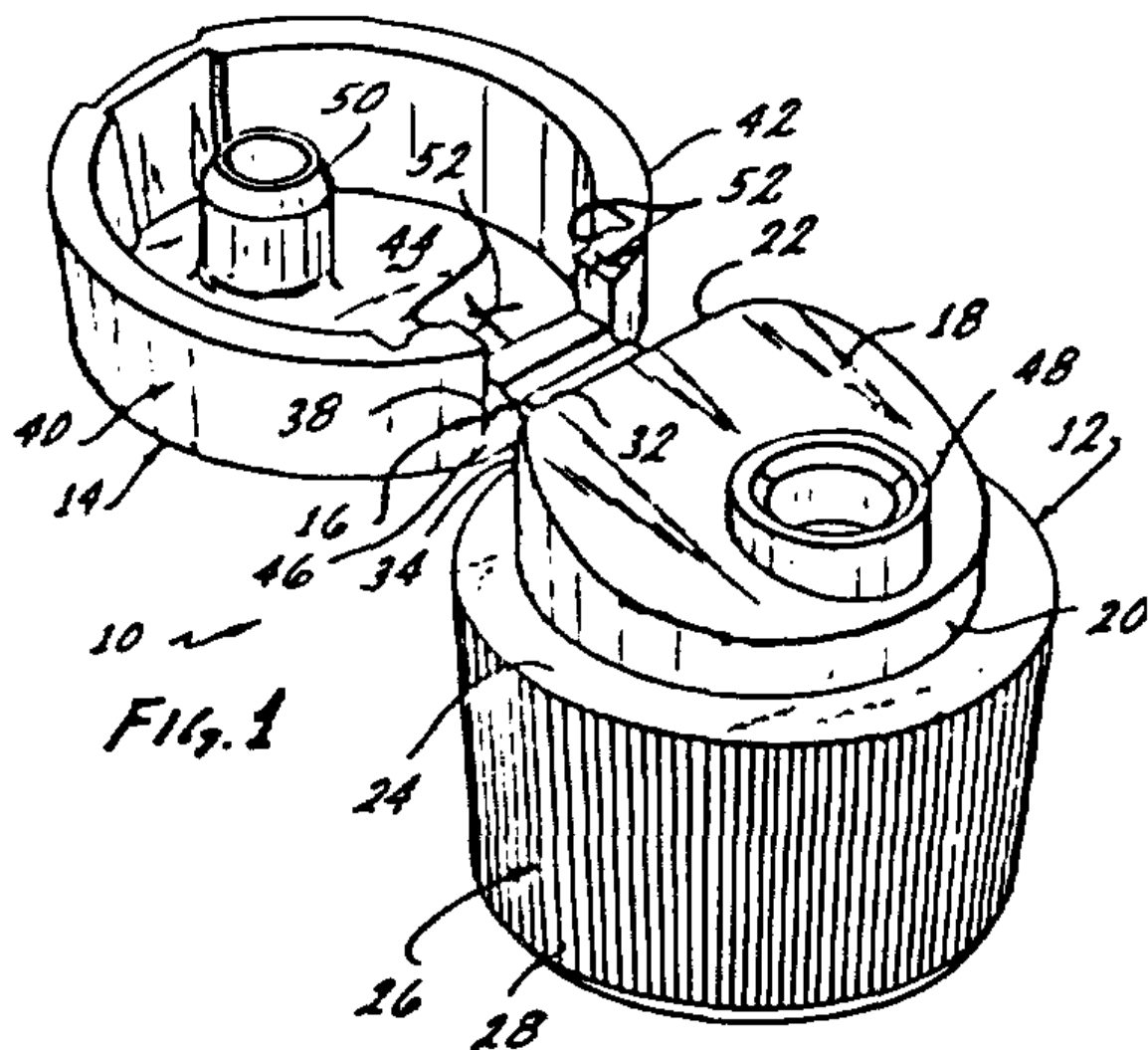
GATEWAY PLASTICS

Family 20/50 - FAMPAT - ©Questel

Title

(EP--44570)

Dispensing closure

Images**Publication numbers with kind code & date**

IT1194080

B 1988-09-14

IT1194080

DK150897

C 1988-01-25

DK-150897C



DK150897	B	1987-07-13	DK-150897				
DE3171111	D1	1985-08-01	DE3171111				
AT14003	T	1985-07-15	ATE014003				
EP0044570	B1	1985-06-26	EP--44570				
EP0056396	B1	1985-06-26	EP--56396				
AU542233	B2	1985-02-14	AU-542233				
SE432752	B	1984-04-16	SE-432752				
EP0056396	A4	1982-12-09	EP--56396				
EP0056396	A1	1982-07-28	EP--56396				
ZA8105050	B	1982-07-28	ZA8105050				
DK126782	A	1982-03-22	DK8201267				
WO82/00278	A1	1982-02-04	WO8200278				
AU7306681	A	1982-01-28	AU8173066				
EP0044570	A1	1982-01-27	EP--44570				
SE8106245	A	1982-01-24	SE8106245				
IT8123045	D0	1981-07-21	IT8123045				

IPC - International classification

B65D-047/08; B65D-047/08

Abstract

(EP0044570)

A unitary dispensing closure having a lid mounted on a closure part or base in such a manner that the lid will automatically move toward either a closed or an opened position when it is released after being manipulated to any position between these two positions can be constructed so as to utilize the resiliency within a "live" hinge to provide the force necessary to move the lid. In any position intermediate these two positions the hinge connects to the lid and closure part or base so that contact between the lid and closure part causes temporary deformation of the hinge. As a result of the resiliency of the material in the hinge such temporary deformation is adequate to move the lid as described.

Inventors

HAZARD, ROBERT E.

WILSON, WOODROW S.

Latest standardized assignees - inventors removed

POLYTOP

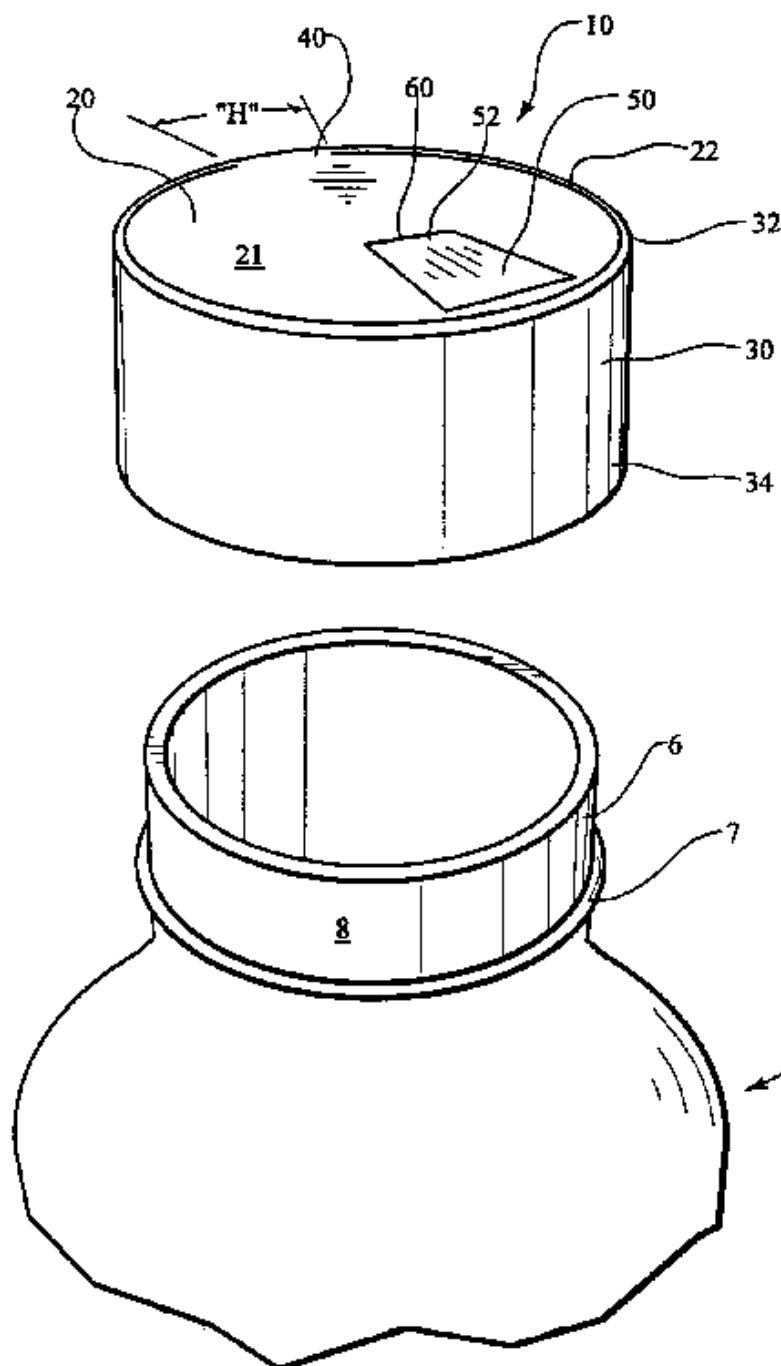
Family 21/50 - FAMPAT - ©Questel

Title

(US5873493)

Integrally molded measurer/dispenser

Images

**FIG. 1****Publication numbers with kind code & date**[US5873493](#)

A

1999-02-23

US5873493

**IPC - International classification**

G01F-011/26; G01F-011/26

Abstract

(US5873493)

A closure providing a side wall having first and second distal ends, an inner surface and an outer perimeter. A cone-shaped divider projects inwardly and upwardly from a lower perimeter of the side wall and includes a drain-back orifice therethrough. The cone-shaped divider further includes an apex having an opening therethrough. The closure further provides a lid pivotally attached at an outer diameter thereof to the outer perimeter of the side wall first distal end by an integral hinge. The lid includes a shaped substantially conforming to the side wall perimeter.

Inventors

ROBINSON CLAYTON L

Latest standardized assignees - inventors removed

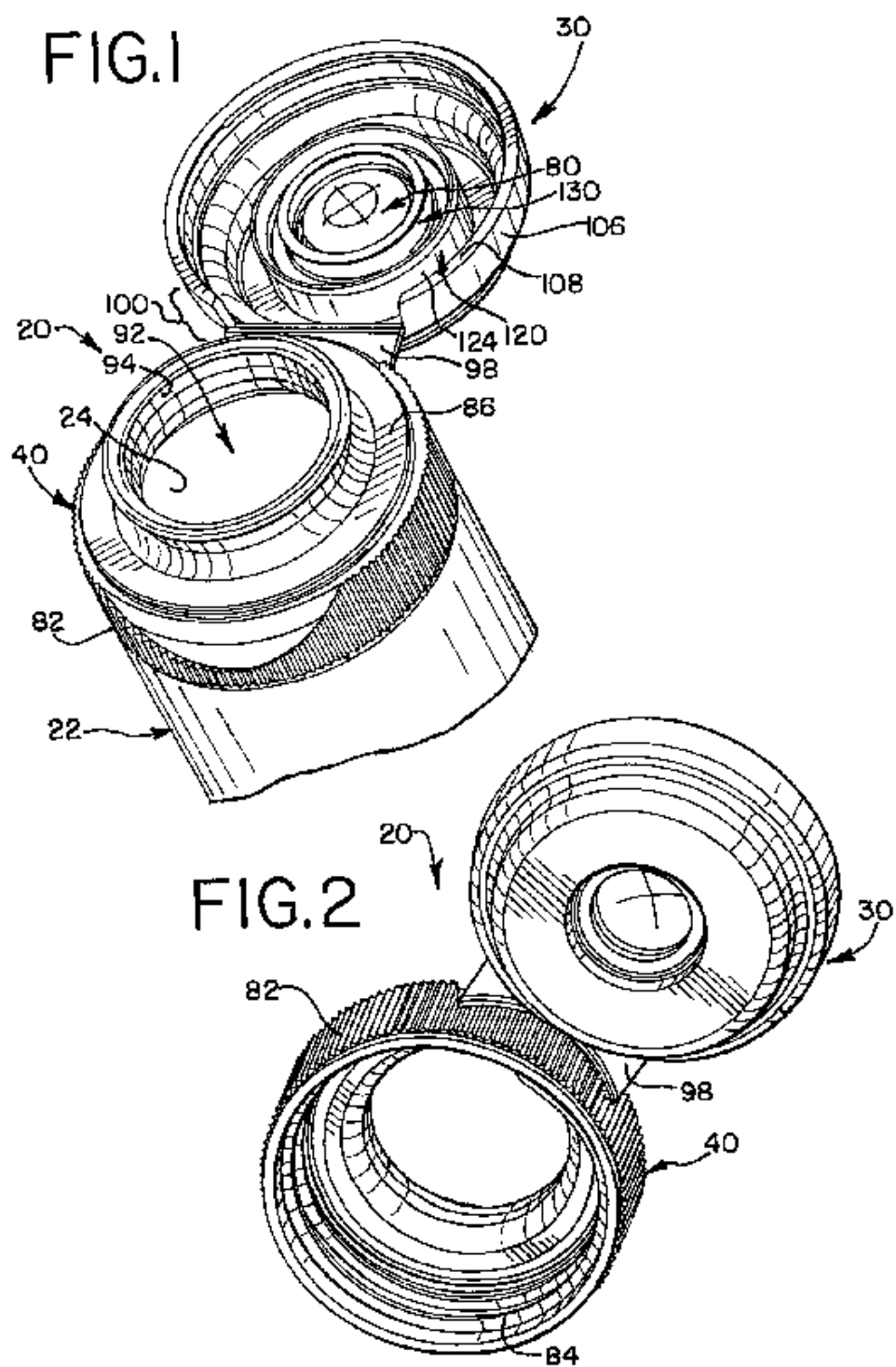
BERRY PLASTICS

Family 22/50 - FAMPAT - ©Questel

Title

(EP1161373)

Dispensing structure wich has a lid with a pressure-openable valve

Images

EP1161373	A4	2006-06-21	EP1161373				
CZ294892	B6	2005-04-13	CZ-294892				
JP2002528345	A	2002-09-03	JP2002528345				
CZ20011505	A3	2002-08-14	CZ200101505				
AU751189	B2	2002-08-08	AU-751189				
AR020757	A1	2002-05-29	AR--20757				
PL347475	A1	2002-04-08	PL99347475				
EP1161373	A1	2001-12-12	EP1161373				
BR9914845	A	2001-07-10	BR9914845				
US6089419	A	2000-07-18	US6089419				
AU1216700	A	2000-05-15	AU200012167				
CA2346018	A1	2000-05-04	CA2346018				
WO00/24640	A1	2000-05-04	WO200024640				
US6006960	A	1999-12-28	US6006960				

IPC - International classification

B65D-005/72; B65D-005/72; B65D-035/52; B65D-047/08; B65D-047/20; B65D-083/00

Abstract

(EP1161373)

A dispensing structure (20, 20A) is provided for discharging the contents from the interior of a container (22). The structure includes a body (40, 40A) for extending from the container (22). The body (40) defines a dispensing opening (92, 92A) and a sealing surface (94, 94A) around the dispensing opening (92, 92A). A lid (30, 30A) is provided for movement between open and closed positions. The lid (30, 30A) has a frame defining a lid dispensing passage (116, 116A) through the lid (30, 30A). The lid (30, 30A) includes a flexible valve (80, 80A) that is disposed within the lid frame across the lid dispensing passage (116, 116A). The flexible valve (80, 80A) has self-sealing slits (266) which open to permit flow therethrough in response to increased pressure on the side of the valve (80, 80A) facing the container (22) when the lid (30, 30A) is closed.

Inventors

GROSS RICHARD A

Latest standardized assignees - inventors removed

SEAQUIST CLOSURES FOREIGN

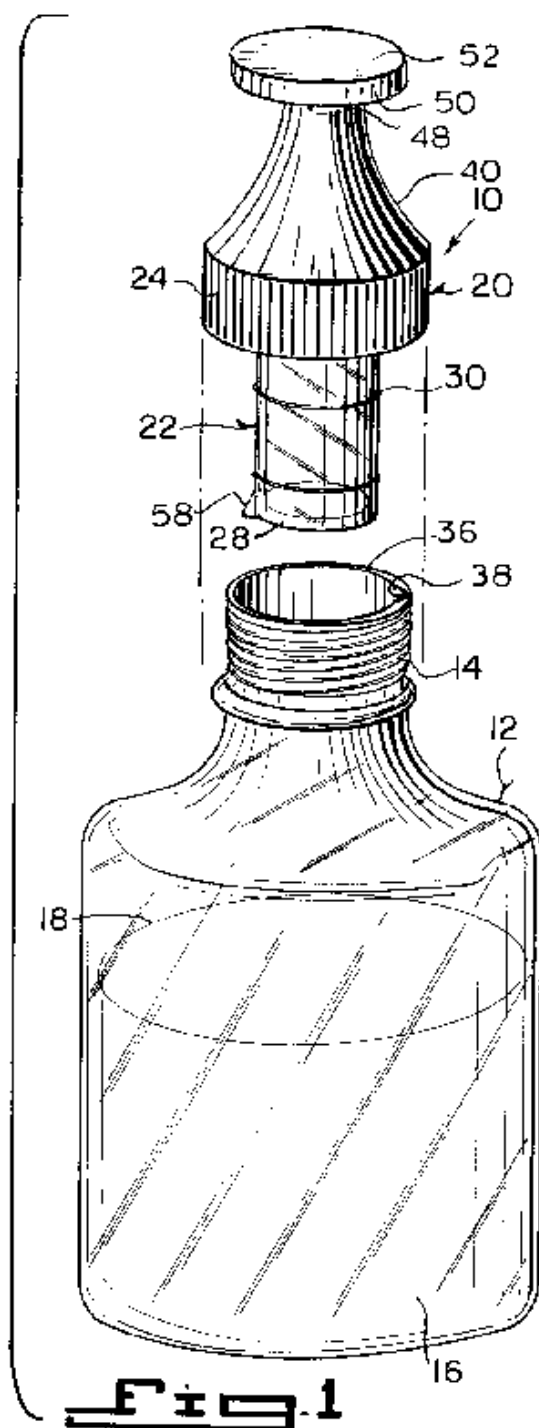
Family 23/50 - FAMPAT - ©Questel

Title

(US5881894)

Combination bottle cap and pre-measured medicine dispenser

Images

**Publication numbers with kind code & date**[US5881894](#)

A

1999-03-16

US5881894

**IPC - International classification**

B65D-041/26; G01F-019/00

Abstract

(US5881894)

A combination bottle cap and pre-measured medicine dispenser for a medicine bottle having a threaded neck and a body a substance therein. The combination bottle cap and pre-measured medicine dispenser includes a cap for detachably sealing the threaded neck of the medicine bottle from leakage of the substance and a measuring vial interconnected with the cap for measuring a predetermined amount of substance poured out of the threaded neck from the body of the medicine bottle after the cap is removed from the threaded neck of the medicine bottle so that the substance can be dispensed therefrom.

The cap includes a cone shaped cover wall having a recess extending therethrough and a skirt depending from the cone shaped cover wall for engaging and sealing the threaded neck. A stopper including a flat base for supporting the combination bottle cap and pre-measured medicine dispenser is used to close the recess extending through the cone shaped cover wall. A base of the measuring vial is defined by the cone shaped cover wall and stopper.

Inventors

GARGANO CATHY

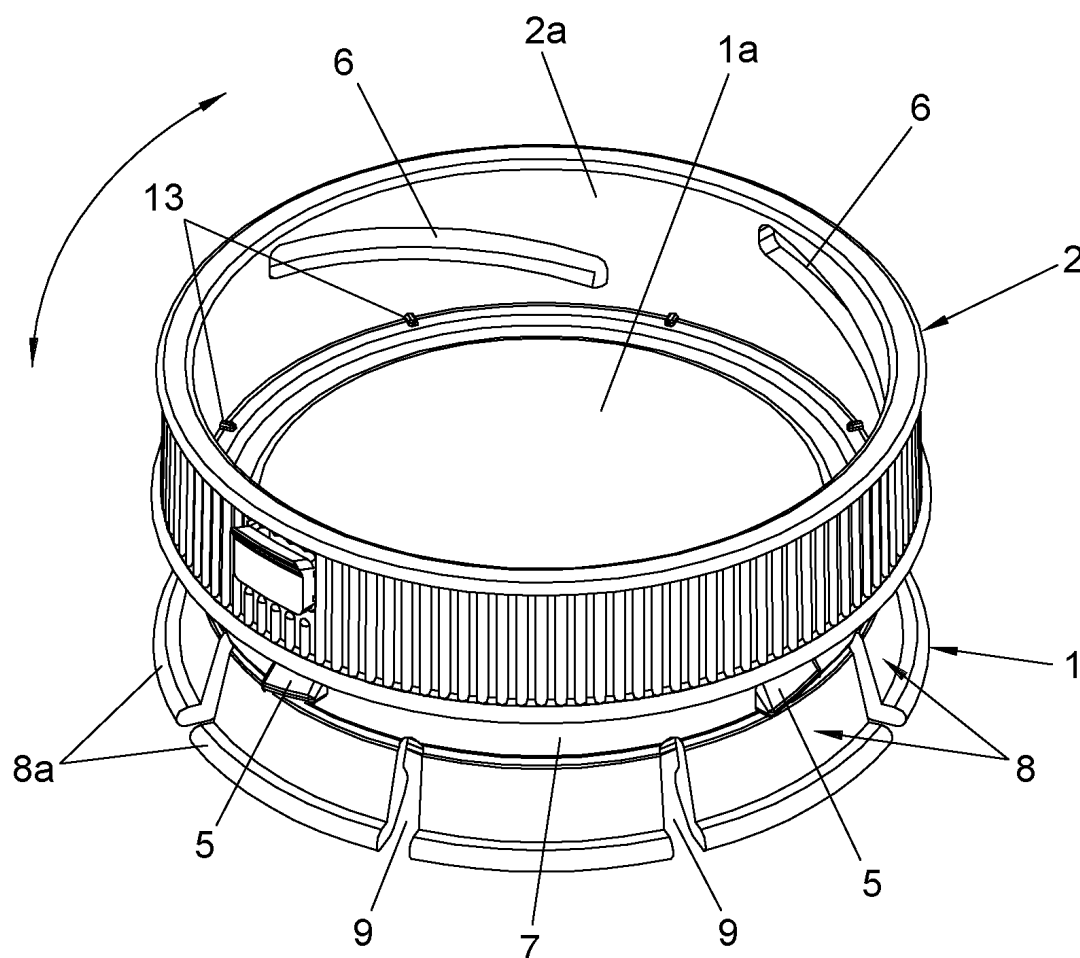
Family 24/50 - FAMPAT - ©Questel

Title

(EP3476760)

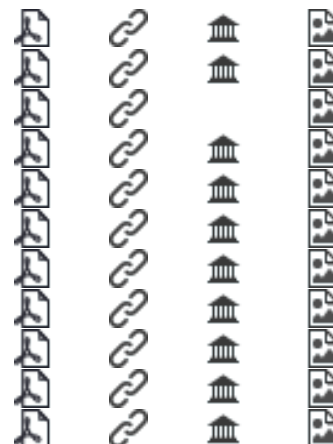
Cap

Images



Publication numbers with kind code & date

US20190315526	A1	2019-10-17	US20190315526
JP2019523191	A	2019-08-22	JP2019523191
MX2019000066	A	2019-05-02	MX2019000066
EP3476760	A1	2019-05-01	EP3476760
BR112018077107	A2	2019-04-30	BR112018077107
BR112018077107	A1	2019-04-16	BR112018077107
CN109562869	A	2019-04-02	CN109562869
IN201837049131	A	2019-01-18	IN201837049131
WO2018/002399	A1	2018-01-04	WO201802399
ES2589357	B1	2017-09-06	ES2589357
ES2589357	A1	2016-11-11	ES2589357



IPC - International classification

B65D-041/58; B65D-041/58; B65D-045/32; B65D-050/06; B65D-051/24

Abstract

(EP3476760)

The invention relates to a cap designed to be coupled to the neck of a container. The cap comprises an inner body (1) and an outer body (2, 2') coupled around the inner body (1), the rotation of the outer body (2, 2') causing same to move in an axial direction with respect to the inner body (1). The inner body (1) comprises a peripheral skirt (7) having a lower part split into a plurality of feet (8). The feet (8) comprise outer surfaces that form a frustoconical shape with a sloped generatrix (10) converging upwards, and inner surfaces with projections (11) that delimit a circular hollow. The cap also comprises a sealing device (14) for preventing the rotation of the outer body (2) with respect to the inner body (1).

Inventors

GÓMEZ CAO JOSÉ LUIS

Latest standardized assignees - inventors removed

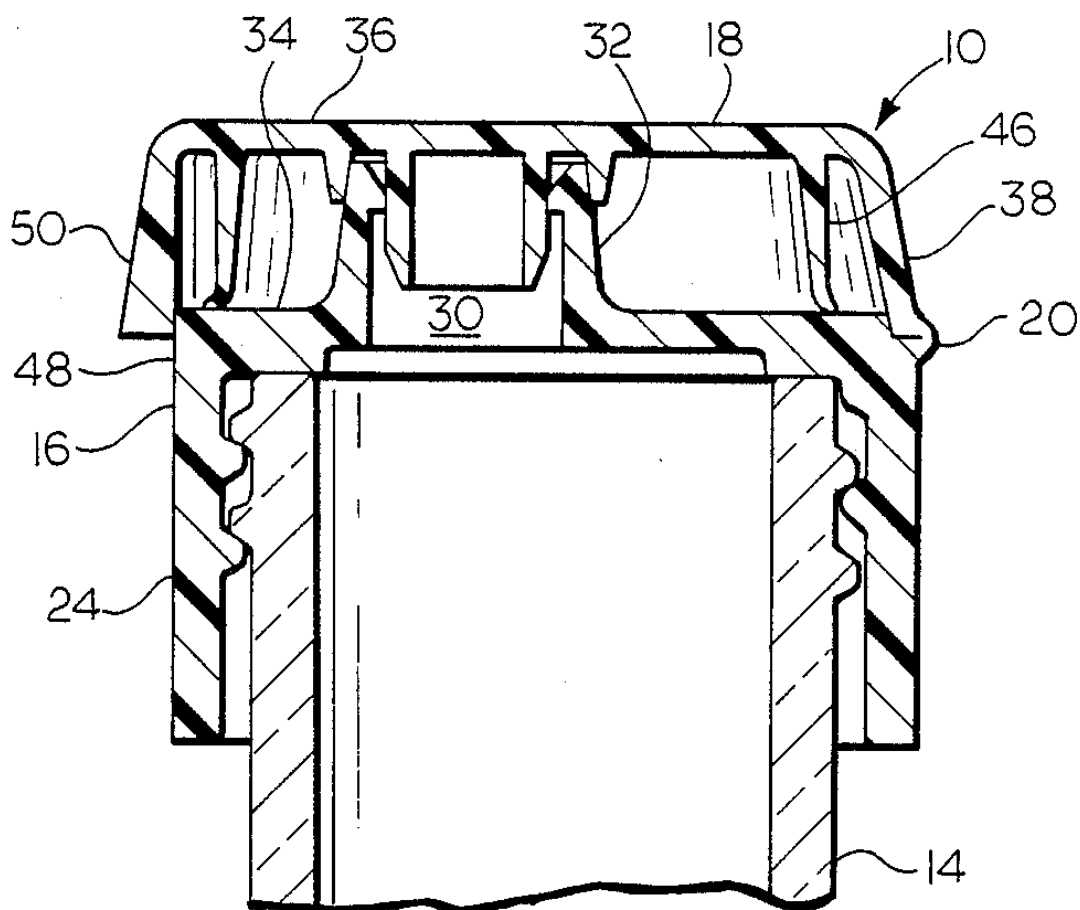
GOMEZ CAO INNOVATIONS & INVENTIONS

Family 25/50 - FAMPAT - ©Questel

Title

(US4801054)

Watertight molded plastic dispensing closure

Images**Publication numbers with kind code & date**[US4801054](#)

A

1989-01-31

US4801054

**IPC - International classification**

B65D-047/08; B65D-047/08

Abstract

(US4801054)

A molded plastic dispensing closure for attachment to the finish of a container. The closure has a body portion which is directly attached to the finish and a cover portion which is hingedly attached to the body portion and which is foldable with respect to the body portion. The body portion has a dispensing opening therein which is surrounded by an outwardly extending dispensing spout, and the dispensing spout is surrounded by a generally flat annular surface. The cover portion is foldable with respect to the body portion between a first position, in which the dispensing spout is sealed by inner and outer annular sealing fins that are carried by the cover portion, and a second position in which the container is open for dispensing through the body portion. One of the body and cover portions of the closure is provided with a secondary sealing fin which seals against the other portion in an annular pattern that surrounds the generally flat annular surface when the cover portion is in the first position.

Inventors

NYCZ JOSEPH D

Latest standardized assignees - inventors removed

OWENS ILLINOIS CLOSURE

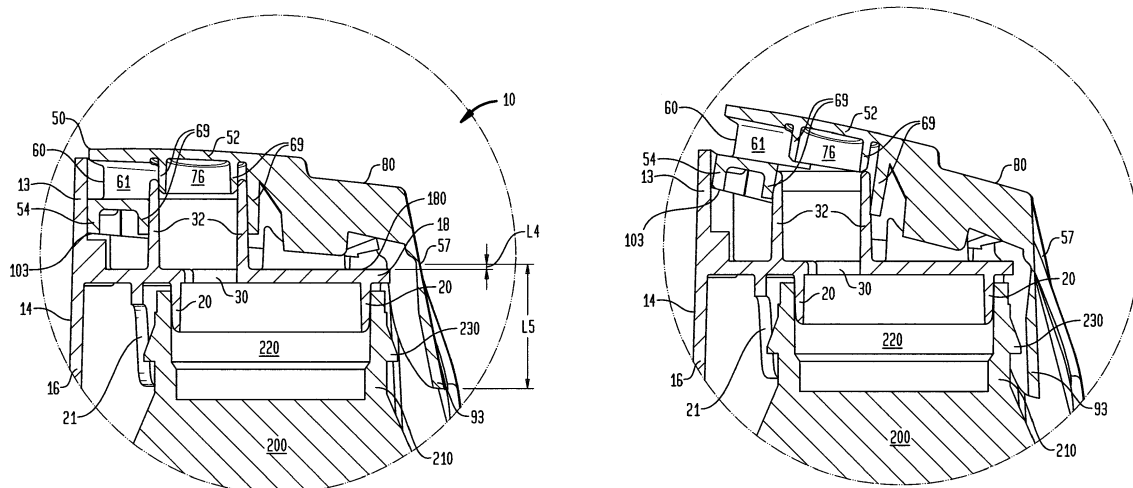
Family 26/50 - FAMPAT - ©Questel

Title

(EP2424785)

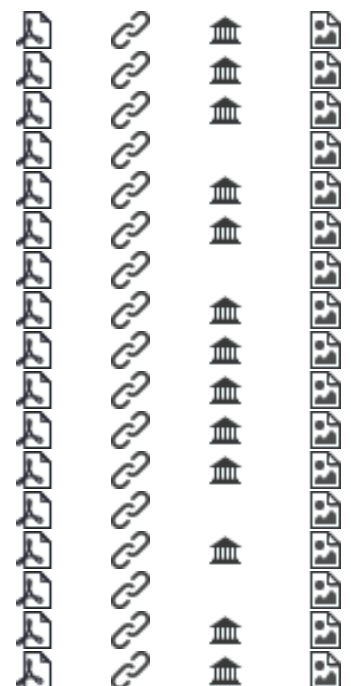
Toggle-action dispensing closure with articulated rear flange

Images



Publication numbers with kind code & date

BRPI1007589	B1	2019-11-05	BR201007589
CA2755702	C	2018-01-02	CA2755702
JP6027438	B2	2016-10-21	JP6027438
KR101655496	B1	2016-09-07	KR101655496
BRPI1007589	A2	2016-02-16	BR201007589
CN102421675	B	2015-07-01	CN102421675B
TH139690	A	2015-02-20	TH-139690
EA019743	B1	2014-05-30	EA--19743
AU2010243760	B2	2013-09-19	AU2010243760
ES2409121	T3	2013-06-25	ES2409121
EP2424785	B1	2013-03-27	EP2424785
BRPI1007589	A1	2012-11-20	BR201007589
ZA201106078	B	2012-10-31	ZA201106078
JP2012525302	A	2012-10-22	JP2012525302
CL2011002686	A1	2012-06-22	CL201102686
EA201171315	A1	2012-05-30	EA201171315
CN102421675	A	2012-04-18	CN102421675



EP2424785	A1	2012-03-07	EP2424785				
KR20120013352	A	2012-02-14	KR20120013352				
IN2120/BOMNP/2011	A	2012-02-03	IN2011MN02120				
CO6361977	A2	2012-01-20	CO6361977				
US8074849	B2	2011-12-13	US8074849				
MX2011011354	A	2011-11-18	MX2011011354				
AR078036	A1	2011-10-12	AR--78036				
AU2010243760	A1	2011-09-08	AU2010243760				
CA2755702	A1	2010-11-04	CA2755702				
US20100276460	A1	2010-11-04	US20100276460				
WO2010/124983	A1	2010-11-04	WO2010124983				

IPC - International classification

B65D; B65D-047/00; B65D-047/06; B65D-047/08; B65D-047/08; B65D-047/20

Abstract

(EP2424785)

A toggle-action dispensing closure (10) is provided for manipulation between a closed, non-dispensing orientation and an open, dispensing orientation that is easily assembled, resists inadvertent opening and has an improved aesthetic appearance for variously shaped closures. The closure includes an actuator (50) rotationally mounted on a housing (14) whereby the housing may be secured to a container (200). The axis of rotation of the actuator is asymmetrically disposed in the housing. The actuator has a rear flange (55) with an articulatable hinge (57) that is longer than its front flange (54). When the closure is securely mounted to a container, the portion (93) of the rear flange below the hinge resiliently contacts the container assisting in preventing inadvertently opening the closure.

Inventors

DOMOY BRETT CHRISTOPHER

LYONS MICHAEL

Latest standardized assignees - inventors removed

UNILEVER

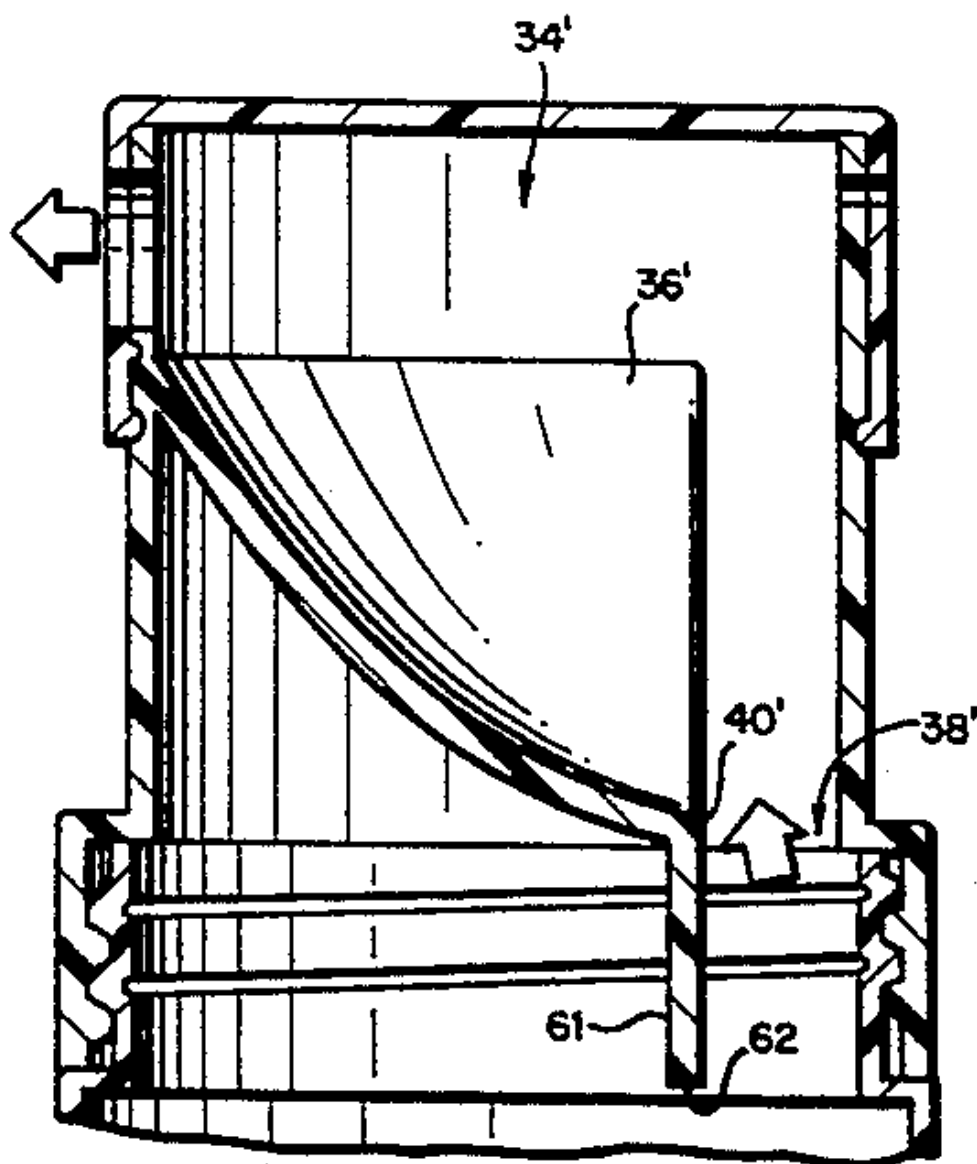
Family 27/50 - FAMPAT - ©Questel

Title

(US5411186)

Dispensing cap with rotatable top

Images



Publication numbers with kind code & date

US5850944	A	1998-12-22	US5850944
US5542579	A	1996-08-06	US5542579
US5509582	A	1996-04-23	US5509582
US5487494	A	1996-01-30	US5487494
US5411186	A	1995-05-02	US5411186



IPC - International classification

B65D-041/26; B65D-047/08; B65D-047/08; B65D-047/26; B65D-047/28; B65D-083/06; G01F-011/26

Abstract

(US5411186)

A dispenser cap for discharging measured amounts of contents from a container includes a first peripheral skirt having upper and lower portions, the lower portion serving to secure the cap to a container. The upper skirt portion at least partially defines a dispensing chamber primarily in the upper portion of the first peripheral skirt, as further defined by a weir panel, the weir panel configured to provide a weir opening between the upper and lower cap skirt portions. A top for the cap includes a second peripheral skirt telescoped over and secured to the first peripheral skirt, wherein the first and second peripheral skirts have alignable first and second respective discharge apertures formed therein. The first discharge aperture in the first peripheral skirt is diametrically opposed to the weir opening so that additional container contents are not spilled into the dispensing chamber during dispensing of the measured amount.

EP1799607	A1	2007-06-27	EP1799607				
MX2007002354	A	2007-05-11	MX2007002354				
AR051088	A1	2006-12-20	AR--51088				
US7121438	B2	2006-10-17	US7121438				
AU2005290254	A1	2006-04-06	AU2005290254				
CA2577263	A1	2006-04-06	CA2577263				
WO2006/036295	A1	2006-04-06	WO200636295				
US20060060618	A1	2006-03-23	US20060060618				

IPC - International classification

B65D-043/24; B65D-047/00; B65D-047/00; B67D-003/00; B67D-003/00; B67D-003/04

Abstract

(EP1799607)

A dispensing closure system (30, 30A) is provided with two or more dispensing apertures (85, 86, 87, 85A, 88A), and two or more pivotable lids (121, 122, 123, 121 A, 122A, 121B, 122B, 123B). Each lid can be selectively opened and retained in a fully opened orientation. In a preferred form of the invention, the lids are incorporated in a top that is snap-fitted into a closure body (32, 32A, 32B) which defines the dispensing apertures.

Inventors

HOEPNER TRAVIS J

DANKS CHRISTOPHER A

Latest standardized assignees - inventors removed

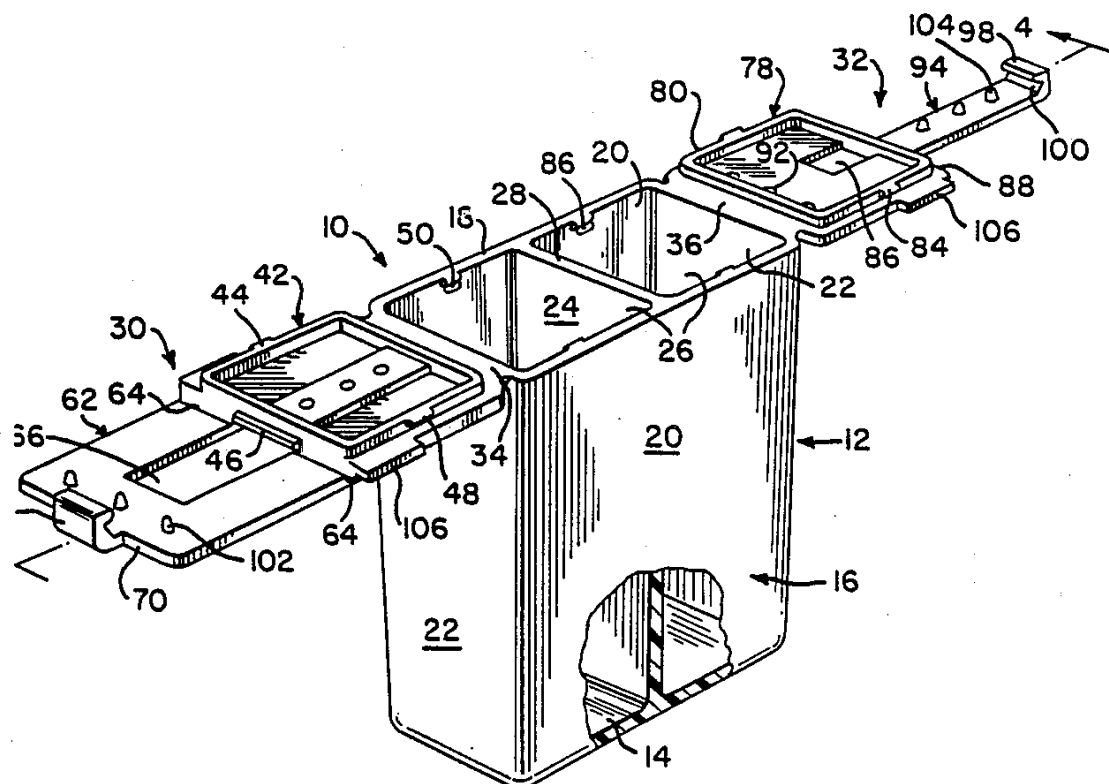
SEAQUIST CLOSURES FOREIGN

Family 29/50 - FAMPAT - ©Questel

Title

(US4804113)

Salt and pepper shaker

Images

NL193439	C	1999-11-02	NL-193439				
NL193439	B	1999-07-01	NL-193439				
SE509346	C2	1999-01-18	SE-509346				
PT8792	U	1996-01-31	PT---8792U				
DK169514	B1	1994-11-21	DK-169514				
IE61164	B1	1994-10-05	IE--61164				
SG32694	G	1994-06-10	SG--32694				
HK41494	A	1994-05-06	HK9400414				
DE3806338	C2	1994-04-07	DE3806338				
AT397029	B	1994-01-25	AT-397029				
PT8792	T	1993-12-31	PT---8792T				
AR244526	A1	1993-11-30	AR-244526				
JP1788247	C	1993-09-10	JP1788247				
ATA44188	A	1993-06-15	AT8800441				
JPH0476689	B2	1992-12-04	JP92076689				
NO170455	C	1992-10-21	NO-170455				
NO170455	B	1992-07-13	NO-170455				
MX163591	B	1992-06-04	MX-163591				
GR1000244	B	1992-05-12	GR1000244				
FR2617032	B1	1991-11-29	FR2617032				
IL85530	B	1991-11-21	IL--85530				
CA1285527	C	1991-07-02	CA1285527				
ES1013325	Y	1991-06-01	ES1013325Y				
NZ223732	A	1991-04-26	NZ-223732				
GB2209115	B	1991-03-06	GB2209115				
BE1002494	A5	1991-03-05	BE1002494				
KR910001000	B1	1991-02-19	KR910001000				
AU604851	B2	1991-01-03	AU-604851				
ES1013325	U	1990-12-01	ES1013325U				
CH675673	A5	1990-10-31	CH-675673				
PH24465	A	1990-07-18	PH--24465				
IT1218023	B	1990-03-30	IT1218023				
PT87280	A	1989-05-31	PT--87280				
GB2209115	A	1989-05-04	GB2209115				
KR890000064	A	1989-03-11	KR19890000064				
GR880100144	A	1989-03-08	GR88100144				
US4804113	A	1989-02-14	US4804113				
SE8802399	L	1989-02-02	SE8802399				
JP01027513	A	1989-01-30	JP01027513				
JPS6427513	A	1989-01-30	JP64027513				
NL8801256	A	1989-01-16	NL8801256				
BR8803060	A	1989-01-10	BR8803060				
AU1237788	A	1989-01-05	AU8812377				
DE3806338	A1	1989-01-05	DE3806338				
FR2617032	A1	1988-12-30	FR2617032				
ZA8801347	B	1988-12-28	ZA8801347				
DK348188	A	1988-12-27	DK8803481				
FI880846	A	1988-12-27	FI8800846				
NO881118	L	1988-12-27	NO-881118				
IE880670	L	1988-12-26	IE8800670				
MA21229	A1	1988-10-01	MA--21229				
IL85530	A	1988-08-31	IL--85530				

LU87154	A1	1988-08-23	LU--87154
SE8802399	D0	1988-06-27	SE8802399
DK348188	D0	1988-06-24	DK8803481
IT8820793	D0	1988-05-27	IT8820793
GB8809540	D0	1988-05-25	GB8809540
NO881118	D0	1988-03-14	NO8801118
FI880846	A0	1988-02-23	FI8800846



IPC - International classification

A47G-019/12; A47G-019/24; B65D-047/08

Abstract

(US4804113)

A two-chambered dispensing receptacle with a pair of closure assemblies integrally molded therewith. Each closure assembly includes a shaker top integrally hinged to the wall of one chamber at diametrically opposed portions of the receptacle. Each closure assembly further includes a closure lid integrally hinged to the shaker top for pivotal movement relative thereto. Each shaker top selectively closes and seals the adjoining chamber with the associated closure lid overlying the shaker top of the other closure assembly and selectively sealing dispensing openings defined therethrough.

Inventors

CIACCIO RICHARD J

Latest standardized assignees - inventors removed

DART INDUSTRIES

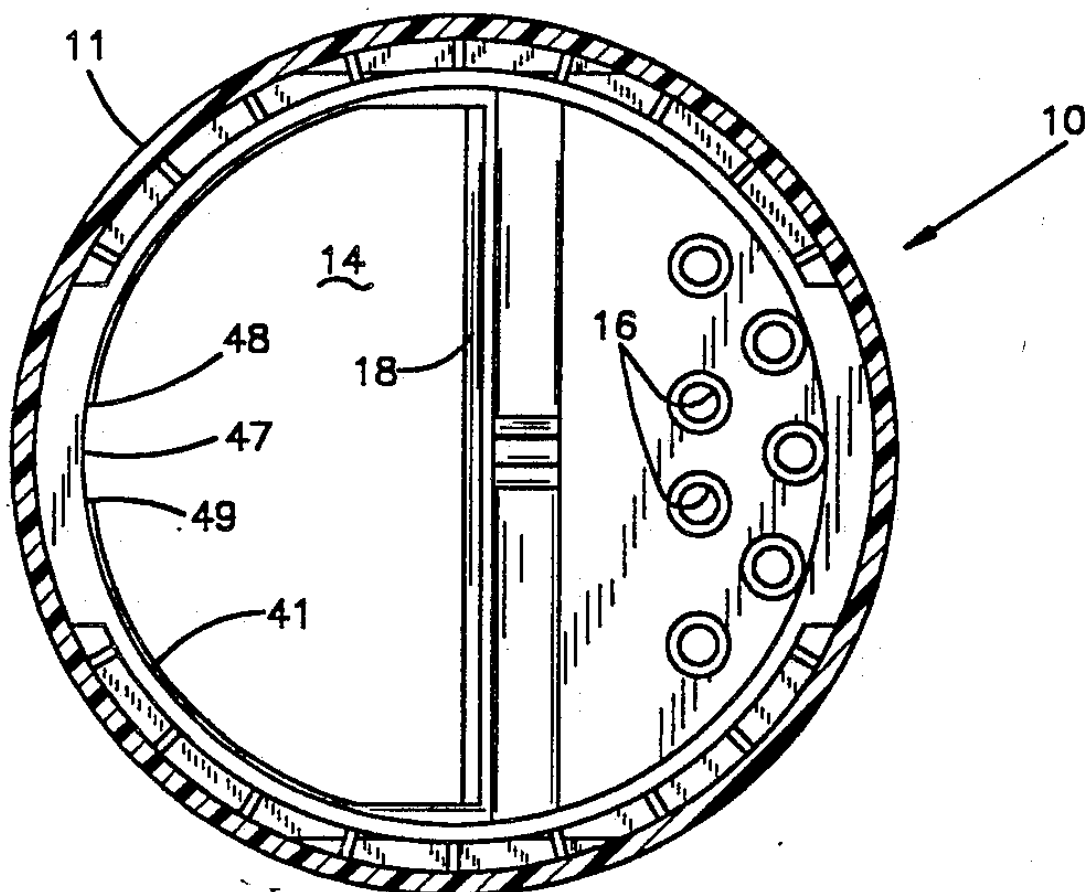
Family 30/50 - FAMPAT - ©Questel

Title

(US4955513)

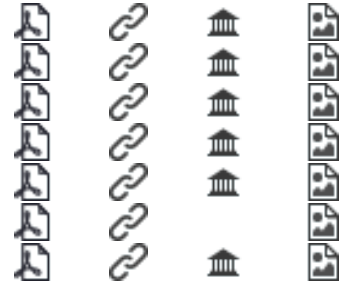
Dispensing closure with flap retention

Images



Publication numbers with kind code & date

IL96201	B	1993-02-21	IL--96201
FR2657069	A1	1991-07-19	FR2657069
DE4037227	A1	1991-07-18	DE4037227
IL96201	A	1991-07-18	IL--96201
CA2028952	A1	1991-07-17	CA2028952
GB9024704	D0	1991-01-02	GB9024704
US4955513	A	1990-09-11	US4955513

**IPC - International classification**

B65D-047/08; B65D-047/08

Abstract

(US4955513)

An injection-molded plastic dispensing cap providing a semicircular spoon opening through which spoonfuls of the contents of an associated container can be removed. The cap provides a hinged flap for closing the opening which is hinged to the body and movable between an open position and a closed position. The cap provides an inwardly extending lip along the periphery of the opening. A rib is formed on the flap to closely fit the lip along the opening when the flap is in the closed position. Projecting from the rib is a latch projection fitting under the lip to secure the flap in the closed position. The lip is provided with a central recess bridged by the latch projection. The lip and the latch cooperate to provide spaced and opposed latching portions which are relatively insensitive to variations in the torque applying the cap to an associated container and which are not adversely affected by removal of the cap from its mold while the cap is still relatively hot.

Inventors

BENNETT KURT K

Latest standardized assignees - inventors removed

WEATHERCHEM

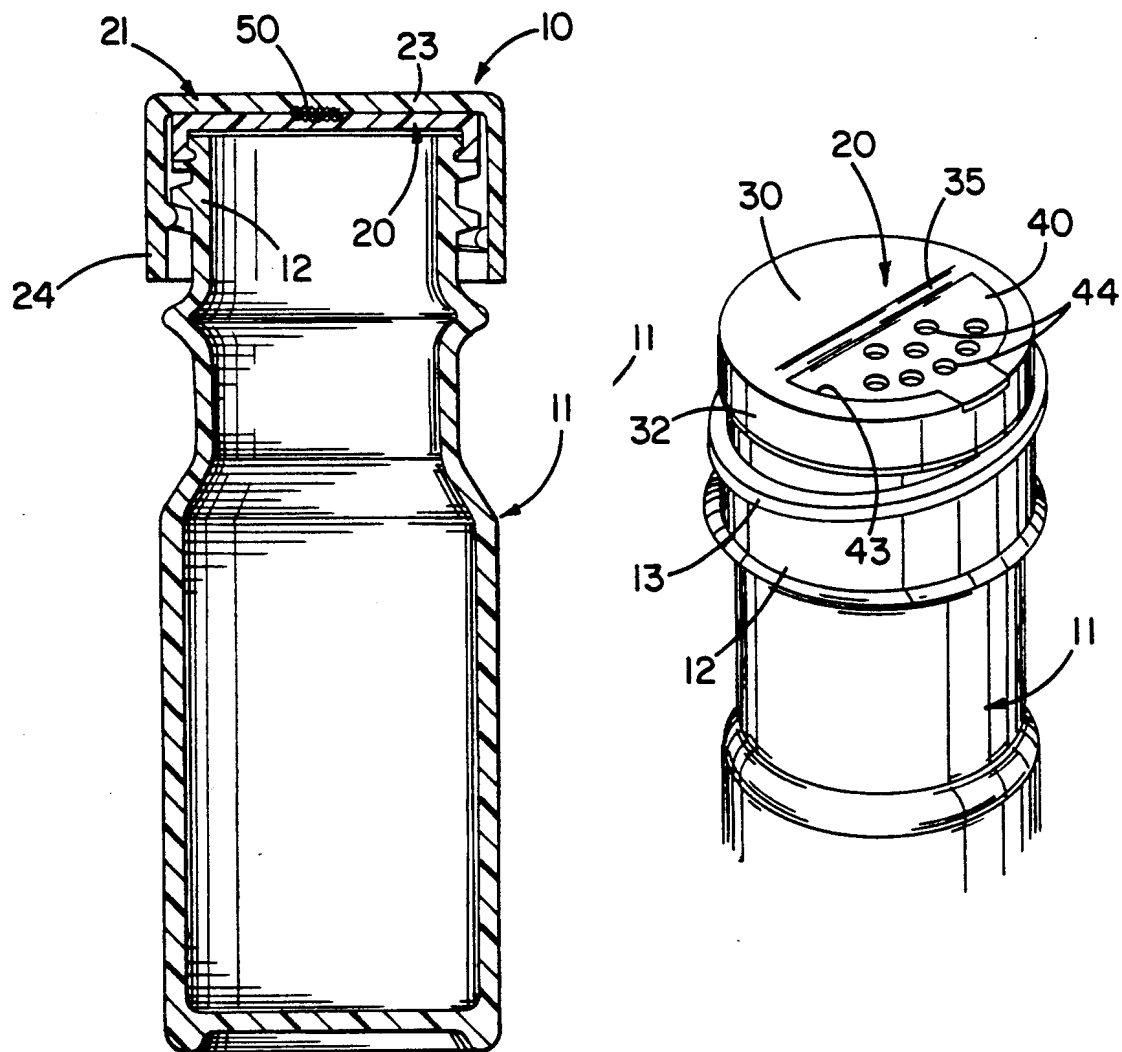
Family 31/50 - FAMPAT - ©Questel

Title

(US5183171)

Closure with dispensing fitment and screw-on cap

Images

**Publication numbers with kind code & date**

US5183171

A

1993-02-02

US5183171

**IPC - International classification**

B65D-047/08; B65D-047/08; B65D-051/18

Abstract

(US5183171)

A plastic dispensing fitment and a plastic screw-on cap are connected in nested relation by an ultrasonic weld. When the cap is initially screwed onto the neck of a jar, the fitment is forced over the neck with a snap fit. When the cap is first unscrewed, the weld breaks to separate the cap from the fitment and enable removal of the cap from the jar while leaving the fitment attached to the jar.

Inventors

PHERIGO DOUGLAS E

Latest standardized assignees - inventors removed

J L CLARK

Family 32/50 - FAMPAT - ©Questel

Title

(US5971231)

Integrally formed container

Images

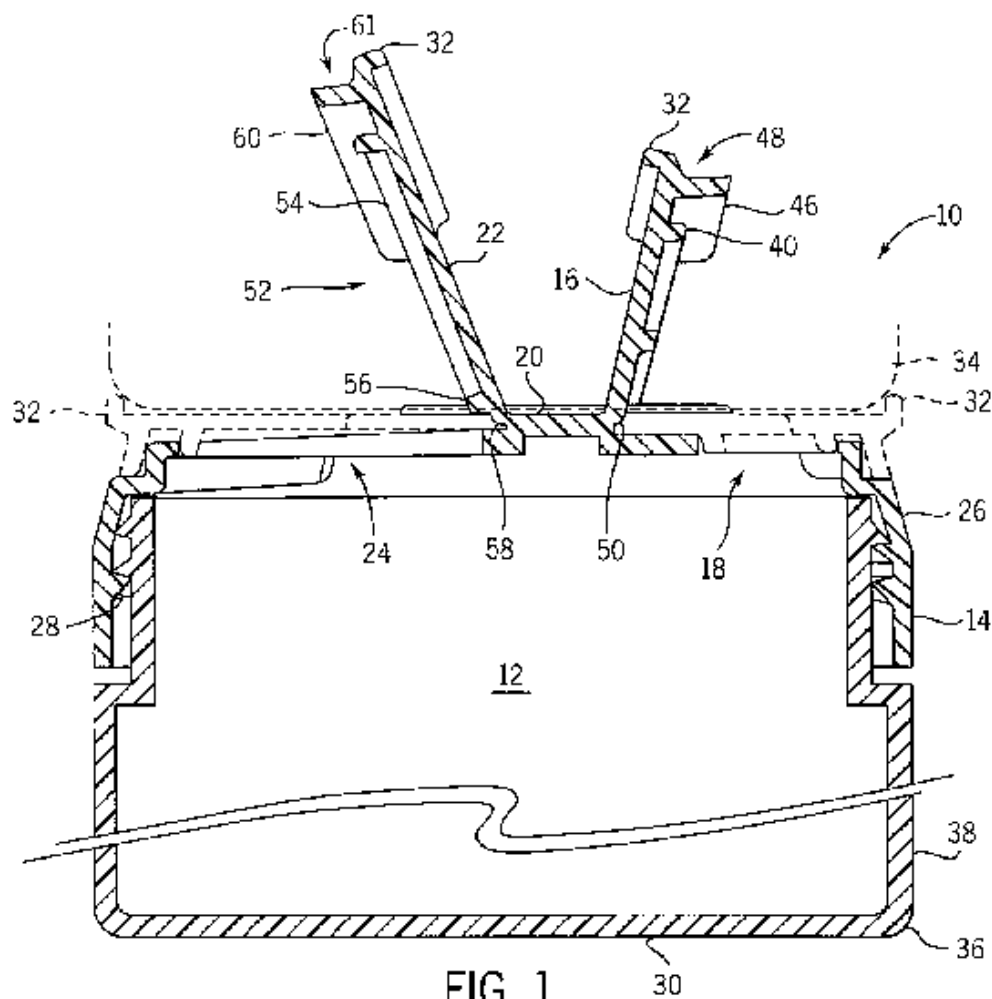


FIG. 1

Publication numbers with kind code & date

US6460718	B1	2002-10-08	US6460718
US6308870	B2	2001-10-30	US6308870
US20010013527	A1	2001-08-16	US20010013527
US6250517	B1	2001-06-26	US6250517
US5971231	A	1999-10-26	US5971231

**IPC - International classification**

B65D-021/02; B65D-047/08

Abstract

(US5971231)

A food products container is disclosed having a cover with two integrally formed flaps for covering a plurality of cover

openings, in particular a spooning opening and shaker openings. Skirts extending downward from the flaps engage their respective openings in the cover to seal them. The skirts that engage the openings extend downward and outward from the flaps at an angle. By extending outward and downward, the skirts engage and lock into the holes. A lip is provided at an outer edge of the cover on the flaps and on the non-rotating part of the cover to retain a second, identical container placed on top by engaging an outer indent in the bottom of the second container.

Inventors

SAMZ JOHN B

VOGEL WILLIAM C

Latest standardized assignees - inventors removed

GATEWAY PLASTICS

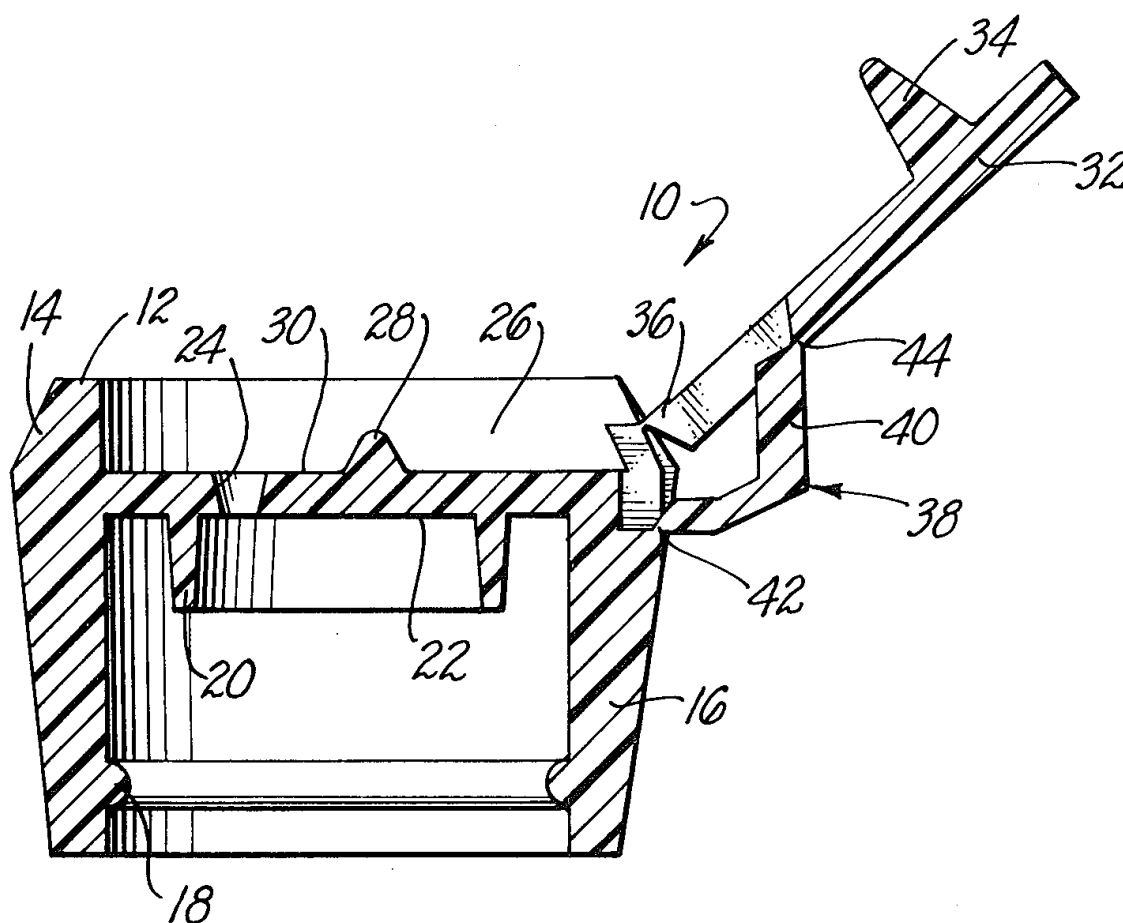
Family 33/50 - FAMPAT - ©Questel

Title

(US4047495)

Child resistant dispensing closures

Images



Publication numbers with kind code & date

GB1570231	A	1980-06-25	GB1570231
FR2350272	B3	1980-03-21	FR2350272
FR2350272	A1	1977-12-02	FR2350272
DE2649218	A1	1977-11-24	DE2649218
US4047495	A	1977-09-13	US4047495



IPC - International classification

B65D-047/08; B65D-047/08

Abstract

(US4047495)

A dispensing type container closure having a lid pivotally mounted on the closure so as to be capable of being moved between a closed position in which the lid closes off an opening through the top of the container and an open position in which this opening is uncovered can be made child resistant in character by including a recess in the top of the closure into which the lid is adapted to fit so that in the closed position the lid cannot be manually engaged to be rotated from the closed position. A fulcrum is provided within the recess and the lid is made so that when the lid is in the closed position pressure can be applied to the lid in order to pivot or move a portion of the lid remote from where the lid is hinged on the closure to a sufficient extent so that this portion of the lid can be manually engaged and moved from the closed position. Preferably a toggle structure is employed to connect the lid and the closure so as to hold the lid in either the closed or the open position. A part of this toggle structure is employed to increase the flexibility of the lid so as to facilitate pressure being applied to move the lid from the closed position.

Inventors

O'BRIAN EDWARD D

Latest standardized assignees - inventors removed

POLYTOP

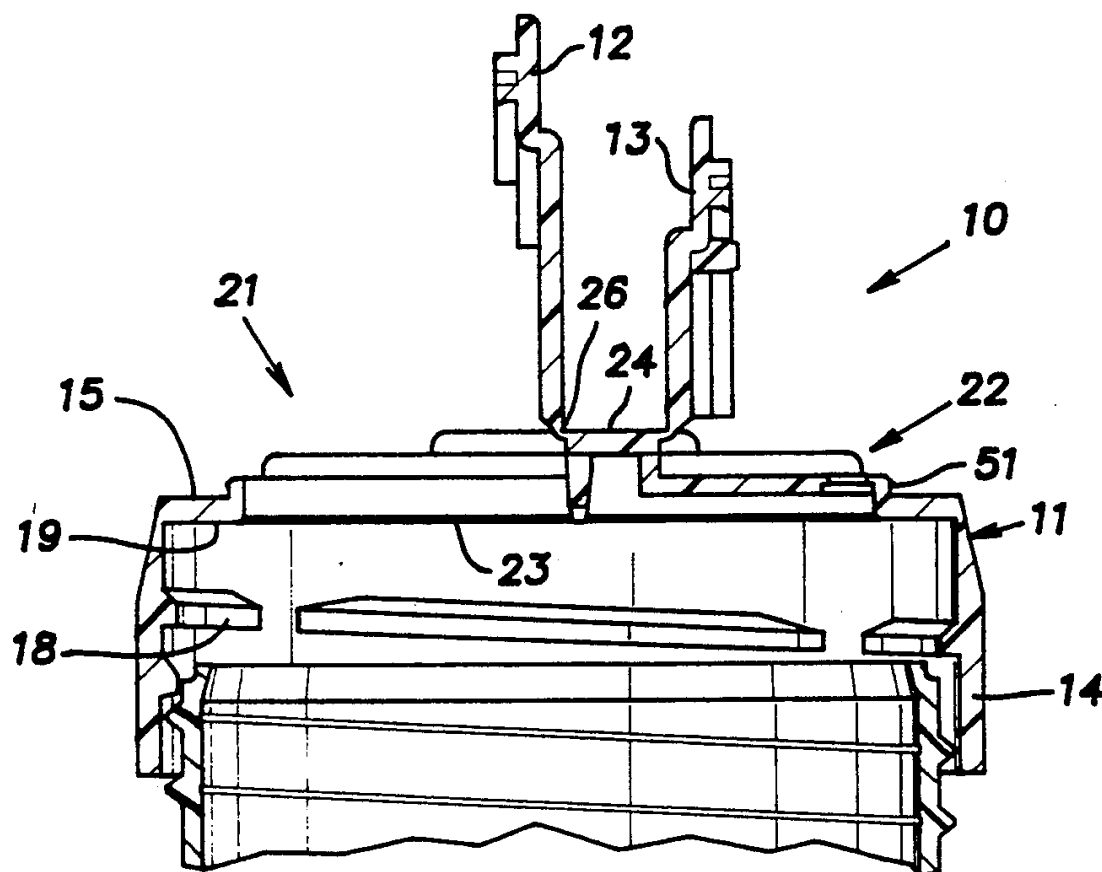
Family 34/50 - FAMPAT - ©Questel

Title

(EP-524795)

Threaded dispensing closure with flap

Images

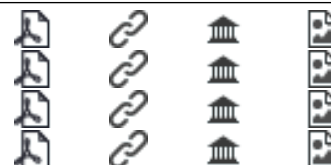


Publication numbers with kind code & date

CA2072954	C	2001-01-02	CA2072954
DE69213133	T2	1997-01-16	DE69213133
DE69213133	D1	1996-10-02	DE69213133
DK0524795	T3	1996-09-16	DK-524795T
EP0524795	B1	1996-08-28	EP-524795
US5330082	A	1994-07-19	US5330082



EP0524795	A3	1993-05-19	EP-524795
EP0524795	A2	1993-01-27	EP-524795
CA2072954	A1	1993-01-23	CA2072954
IL102419	A	1993-01-14	IL-102419

**IPC - International classification**

B65D-047/08; B65D-047/08

Abstract

(EP0524795)

A screw-on flap-style dispensing cap having a snap catch for releasably holding the flap in its closed position. The snap catch and supporting cap body and flap areas are configured to increase the retaining force produced by the snap catch when the cap is locally deformed as the cap is applied to a container mouth with a relatively high torque level so that a tendency of the flap to pop open when overtightened is compensated. <IMAGE>

Inventors

FORSYTH MICHAEL J

Latest standardized assignees - inventors removed

WEATHERCHEM

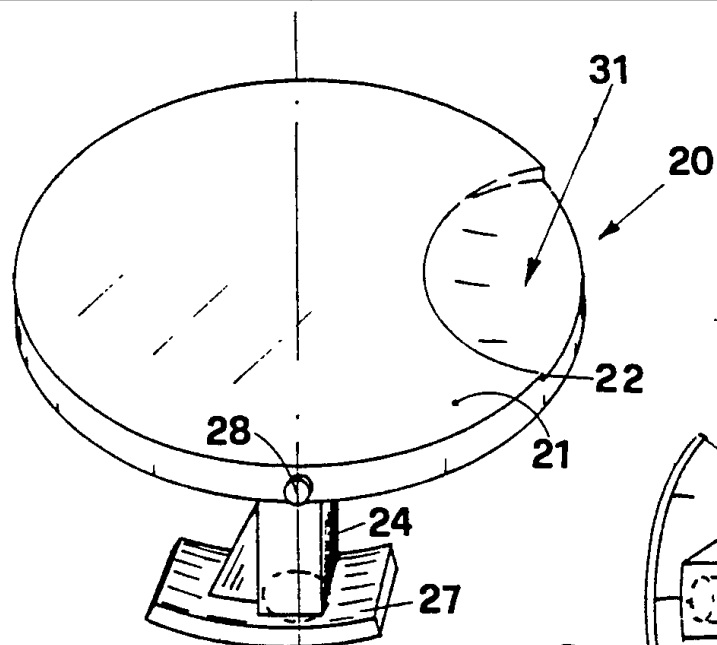
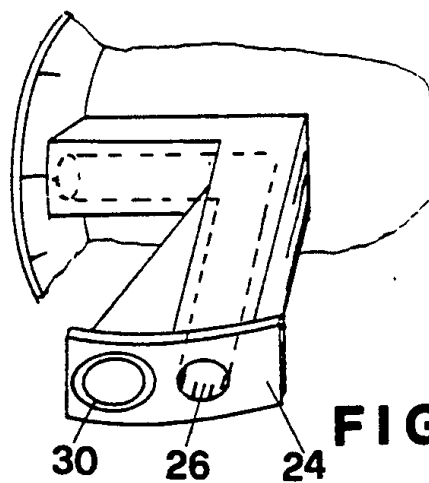
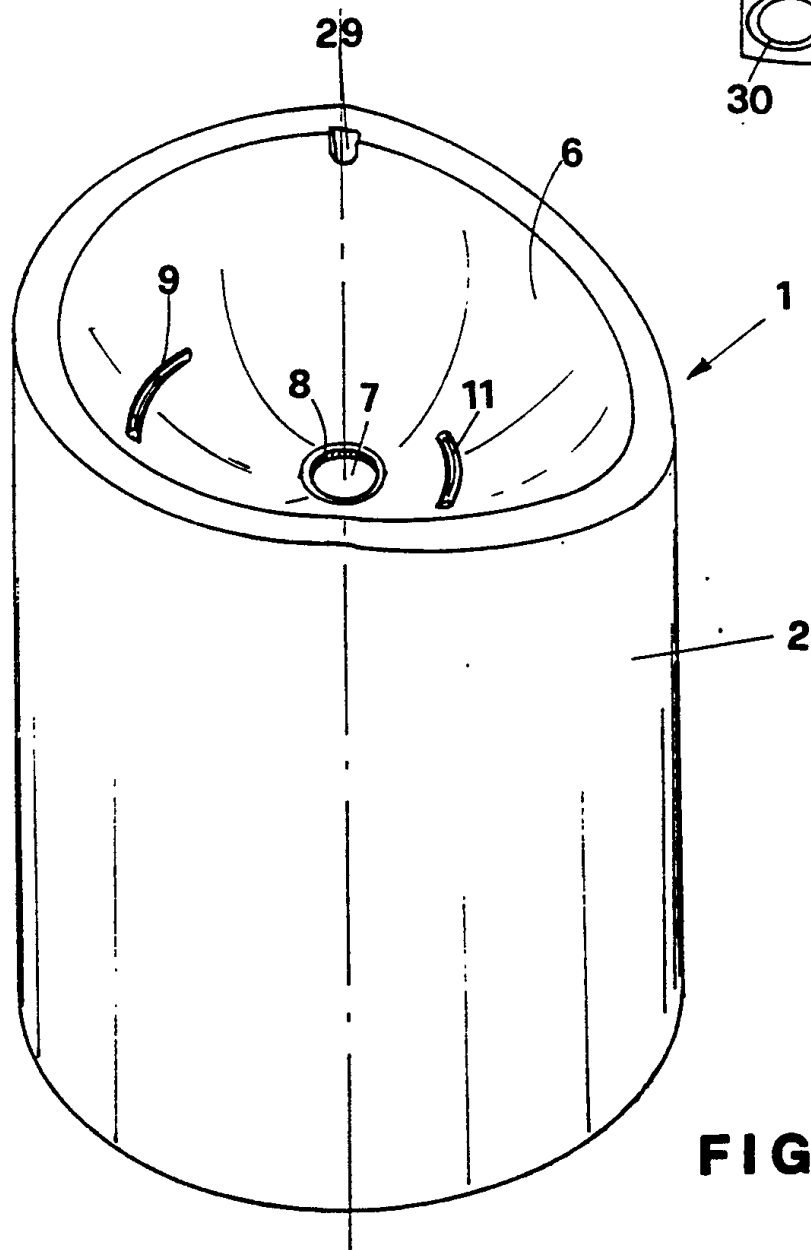
Family 35/50 - FAMPAT - ©Questel

Title

(EP-386475)

Cap with a dispenser for liquids

Images

**FIG. 2****FIG. 3****FIG. 1**

Publication numbers with kind code & date

DE69002967	D1	1993-10-07	DE69002967
AT93805	T	1993-09-15	ATE093805
EP0386475	B1	1993-09-01	EP-386475
IT1233820	B	1992-04-17	IT1233820
US5054662	A	1991-10-08	US5054662
EP0386475	A1	1990-09-12	EP-386475
IT8985542	D0	1989-03-07	IT8985542

**IPC - International classification**

B65D-047/26; B65D-047/30; B67D-003/04

Abstract

(EP0386475)

The invention discloses a cap made of plastic material for containers holding liquids, which comprises an essentially cylindrical main body and an element (20) for dispensing the liquid. Said dispensing element has an essentially round, flat upper part, hinged into the main body and a lower part in the shape of a socle having a partially cylindrical base surface (27) which slides on the corresponding concave surface (6) belonging to the main body (1). The contact between the cylindrical surface of the base and the concave surface (6) of the main body insures the tightness. Moreover, around the opening of the concave surface (6) of the cylindrical body (1) there is a ring-shaped projection (8) acting as a seal when the dispenser is in its open position. When the dispenser is closed, said ring-shaped projection (8) matches a corresponding round indentation (30) which is found in the base, so as to insure the tightness between the dispenser and the body of the cap, regardless of the position of the container.

Inventors

SANTAGIULIANA, EVANS

Latest standardized assignees - inventors removed

TAPLAST

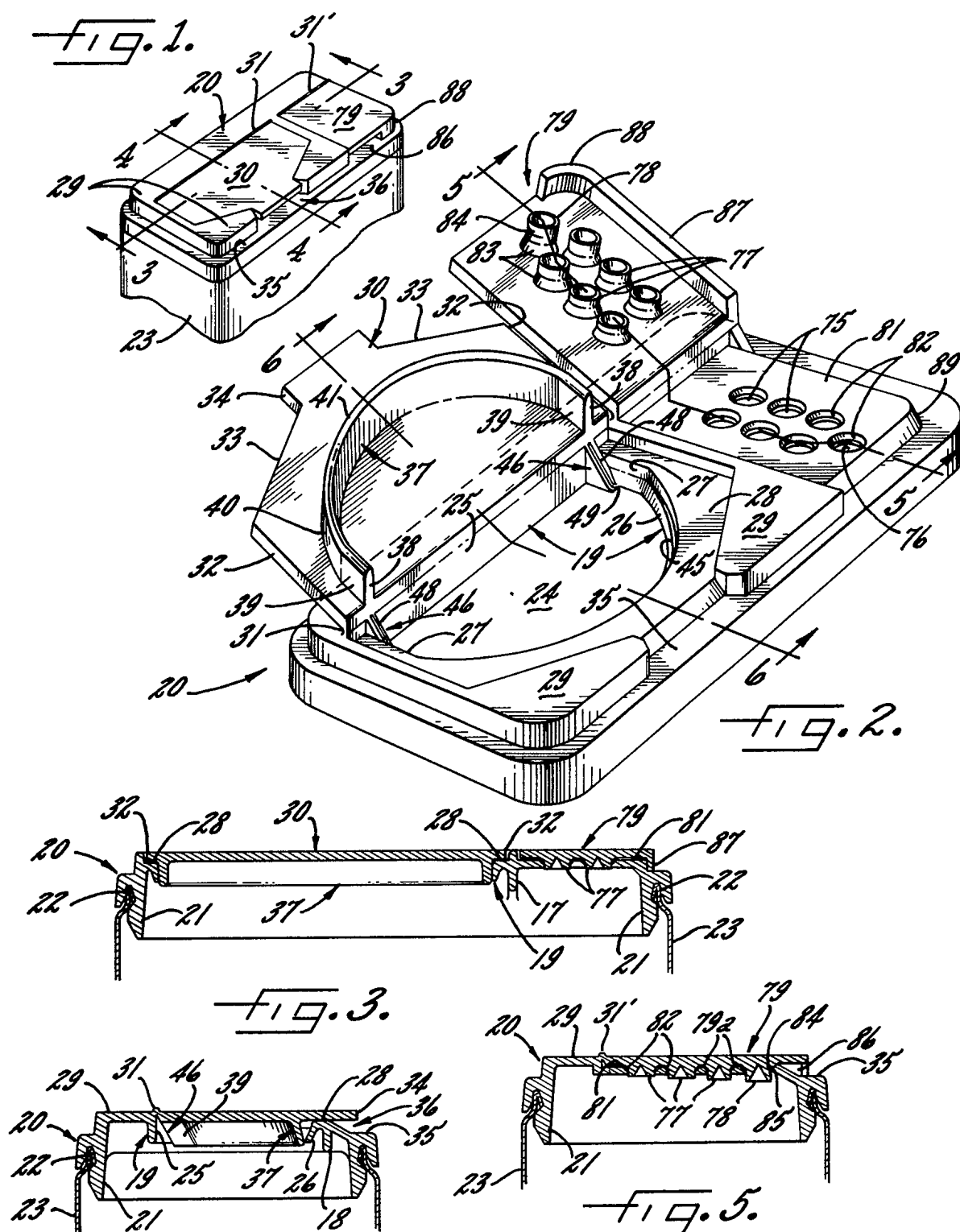
Family 36/50 - FAMPAT - ©Questel

Title

(US3675812)

Plastic cover with hinged closure and molding dies therefor

Images



INVENTOR.
JOHN A. FOSTER,
BY
Wolfe, Hubbard, Seyditz, Voit & Osann
ATTORNEYS

Abstract

(US3675812)

The disclosed plastic cover is similar to and an improvement on that shown in U.S. Pat. No. 3,095,995 by virtue of the projection of the peripheral edge of the hinged closure flap laterally and outwardly beyond the full length of an arcuate sealing rib and the opposed wall of the dispensing opening with the outer face of the rib making an acute included angle with the under surface of the flap and the inner rib surface disposed substantially parallel to the path of separation of the die surfaces in which the flap and rib are molded. The molding of such a cover construction is made possible by a unique die assembly which permits the hinged flap and rib to be disposed at a substantial obtuse included angle relative to the dispensing opening during the molding of the cover.

Inventors

FOSTER JOHN A

Latest standardized assignees - inventors removed

CLARK MANUFACTURING

Family 37/50 - FAMPAT - ©Questel

Title

(US5706981)

Dispensing closure for container

Images

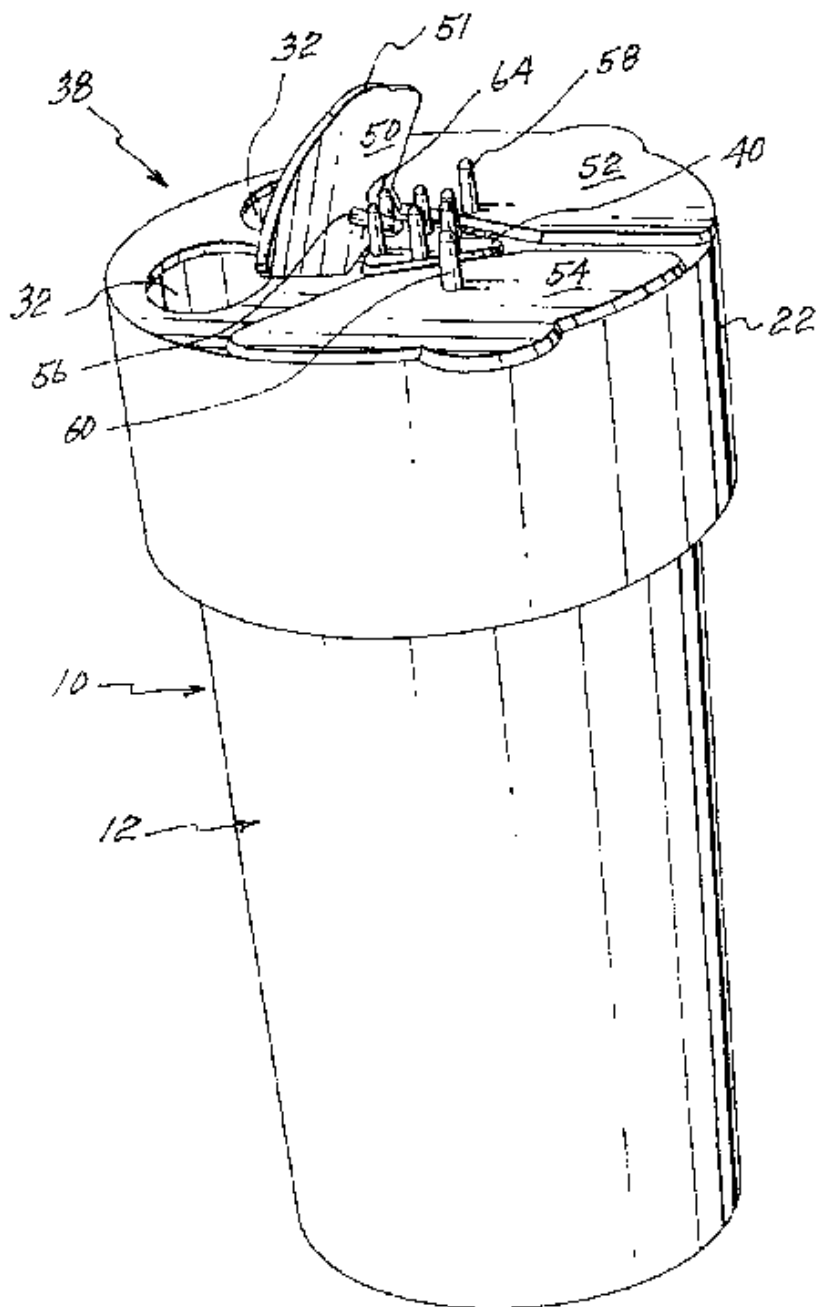


Fig- 1

Publication numbers with kind code & date

US5706981	A	1998-01-13	US5706981
CA2163407	A1	1996-05-27	CA2163407
GB9423934	D0	1995-01-18	GB9423934

**IPC - International classification**

B65D-047/08; B65D-047/08

Abstract

(US5706981)

A closure suitable for use with a condiment container which has a dispensing mouth formed therein, the closure comprising a cover adapted to fit over the mouth of the container and having a plurality of dispensing sections formed therein with at least one dispensing aperture in each dispensing section, each dispensing section having a sealing flap associated

therewith, the sealing flap being hingedly secured whereby the flap can be moved from a first position in an overlying sealing relationship with the dispensing aperture to a second open position permitting access to the dispensing aperture. The closure has a pair of retaining posts for retaining the flap in the open position. Since there are a plurality of dispensing sections, the closure can function as a universal closure for many different types of condiments.

Inventors

NOBAKHT JAMSHID

Latest standardized assignees - inventors removed

NOBAKHT JAMSHID

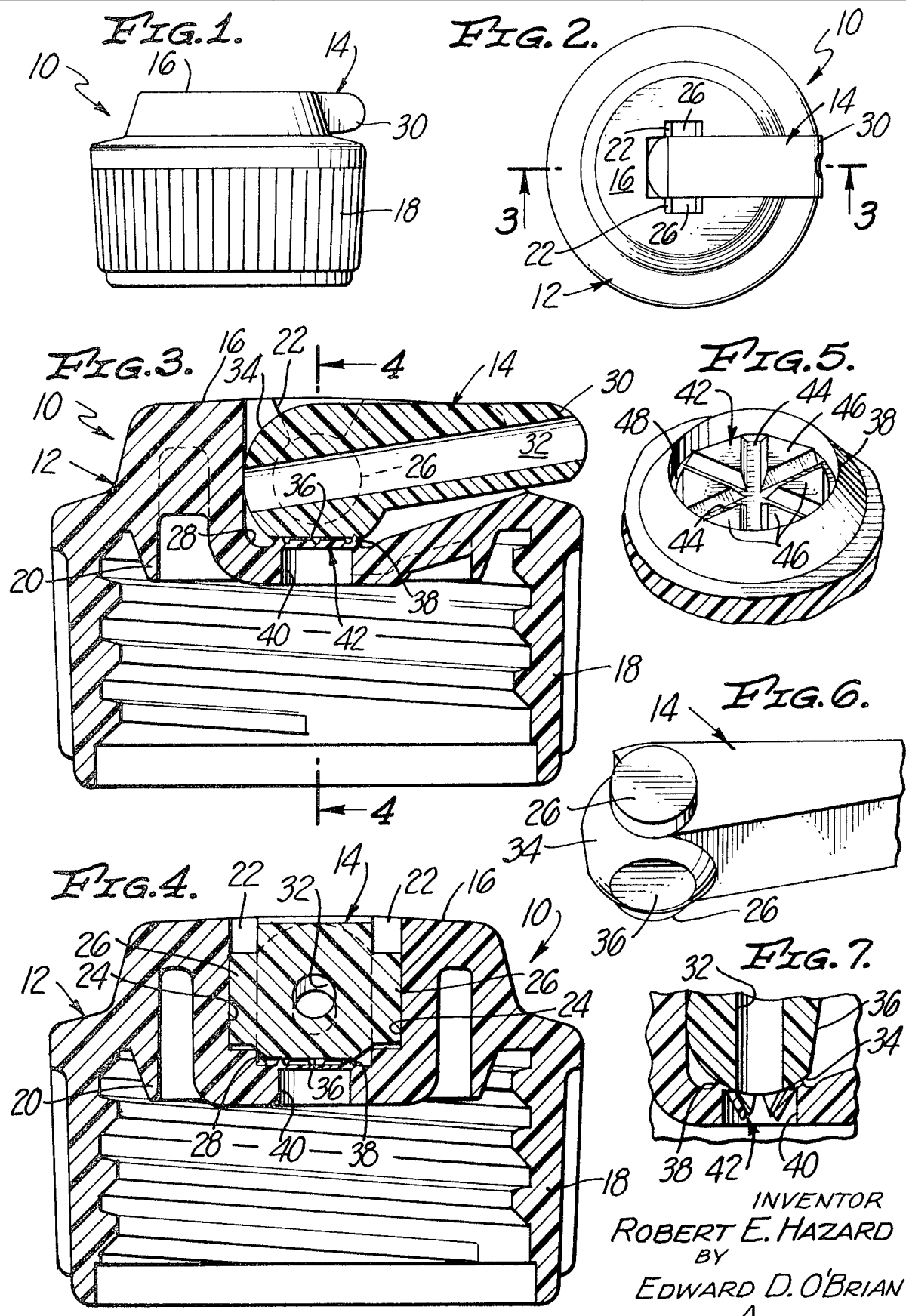
Family 38/50 - FAMPAT - ©Questel

Title

(US3653546)

Dispensing closure with rupturable diaphragm seal

Images



Publication numbers with kind code & date

US3653546

A

1972-04-04

US3653546

IPC - International classification

B65D-047/30; B65D-047/30

Abstract

(US3653546)

A rupturable diaphragm seal is disclosed for use in dispensing closures having a closure body including a dispensing

opening leading there through and having a spout rotatably mounted on the body so as to be capable of being rotated from an initial closed position in which a passage in the spout is out of alignment with the dispensing opening to an open position in which the passage of the spout is aligned with the dispensing opening. In such a closure the rupturable diaphragm is secured to the closure body so as to extend across the opening. The spout used is formed so as to overlie the diaphragm in an initial closed position of the spout and is formed so as to engage and apply pressure to the diaphragm when the spout is rotated from this initial closed position to an open position so as to rupture the diaphragm.

Inventors

HAZARD ROBERT E

Latest standardized assignees - inventors removed

POLYTOPE

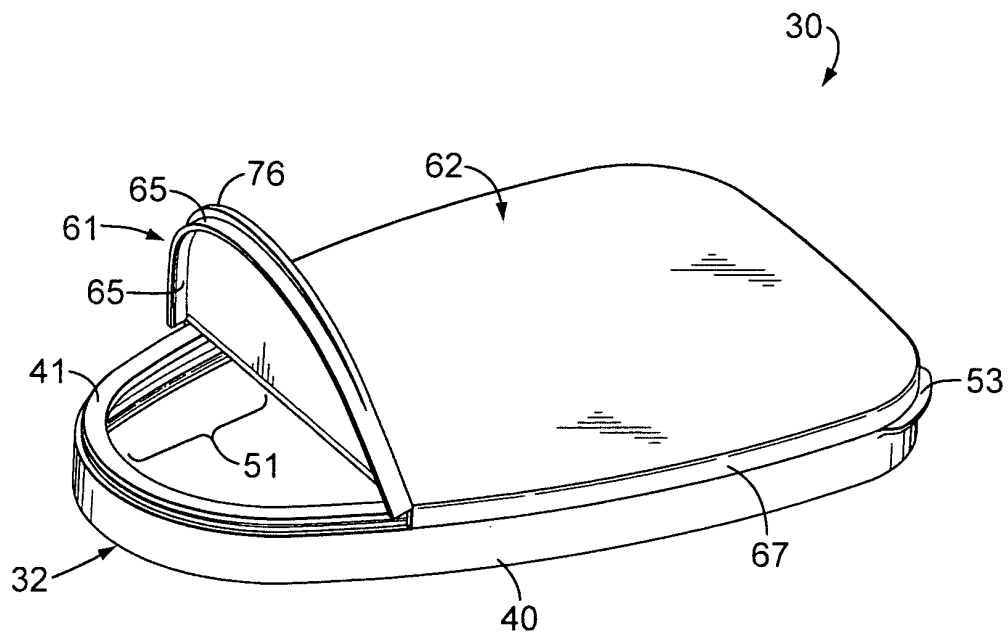
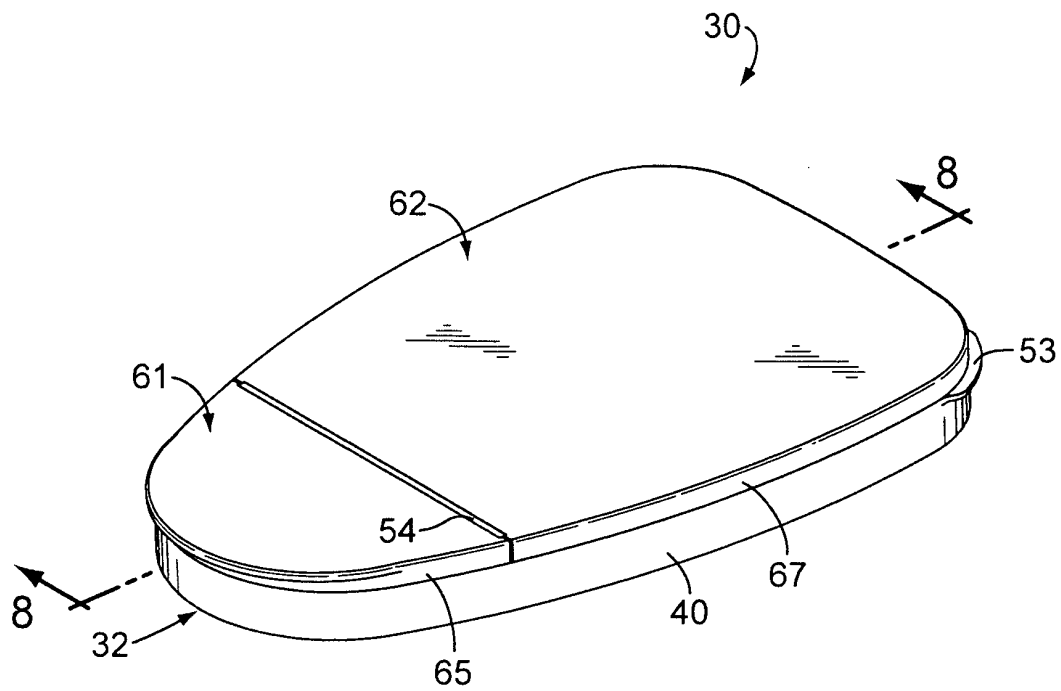
Family 39/50 - FAMPAT - ©Questel

Title

(EP1819630)

Closure with more, in particular two lids

Images



Publication numbers with kind code & date

CA2597725	C	2014-01-07	CA2597725
CN101102960	B	2012-08-01	CN101102960B
AU2005306700	B2	2011-03-24	AU2005306700
PL1819630	T3	2011-01-31	PL1819630
ES2348057	T3	2010-11-29	ES2348057
DE602005022921	D1	2010-09-23	DE602005022921
AT477211	T	2010-08-15	ATE477211
EP1819630	B1	2010-08-11	EP1819630
RU2381970	C2	2010-02-20	RU2381970
US7530478	B2	2009-05-12	US7530478
RU2007122754	A	2008-12-27	RU2007122754



EP1819630	A4	2008-12-10	EP1819630				
AR062646	A1	2008-11-26	AR--62646				
BRPI0518445	A2	2008-11-18	BR200518445				
JP2008520513	A	2008-06-19	JP2008520513				
US20080110942	A1	2008-05-15	US20080110942				
CN101102960	A	2008-01-09	CN101102960				
EP1819630	A2	2007-08-22	EP1819630				
IN1883/KOLNP/2007	A	2007-08-10	IN2007KN01883				
MX2007005794	A	2007-07-18	MX2007005794				
US7150380	B2	2006-12-19	US7150380				
WO2006/055433	A3	2006-08-31	WO200655433				
AU2005306700	A1	2006-05-26	AU2005306700				
CA2597725	A1	2006-05-26	CA2597725				
WO2006/055433	A2	2006-05-26	WO200655433				
US20060108381	A1	2006-05-25	US20060108381				

IPC - International classification

B65D-043/08; B65D-043/16; B65D-043/22; B65D-047/00; B65D-047/00; B65D-047/08; B65D-047/08; B65D-051/00; B65D-051/18; B65D-051/18; B67D-003/00; B67D-003/00

Abstract

(EP1819630)

A dispensing closure system (30, 30A, 30B, 30C, 30D) is provided with a peripheral wall or closure body (32, 32A, 32B, 32C, 32D) for extending from a container. In one form of the system, at least one lid (61 or 62/61 A or 62A/ 61 B or 62B/61D or 62D) includes a latch post (130D) for being received in a latch aperture (120D) in a rim (44D) of the peripheral wall (32, 32A, 32B, 32C, 32D) to increase the opening resistance of the lid. In another form of the system, two lids (61 and 62/61A and 62A/ 61B and 62B/61D and 62D) are molded with the body (32, 32A, 32B, 32C, 32D) as a unitary structure, and the lids are closable over two openings (51, 52/51 A, 52A/51B, 52B/51C, 52C/51D, 52D).

Inventors

BLOMDAHL CORI M

JELICH NICHOLAS J

HAMMOND JAMES W

HOEPNER TRAVIS J

Latest standardized assignees - inventors removed

SEAQUIST CLOSURES FOREIGN

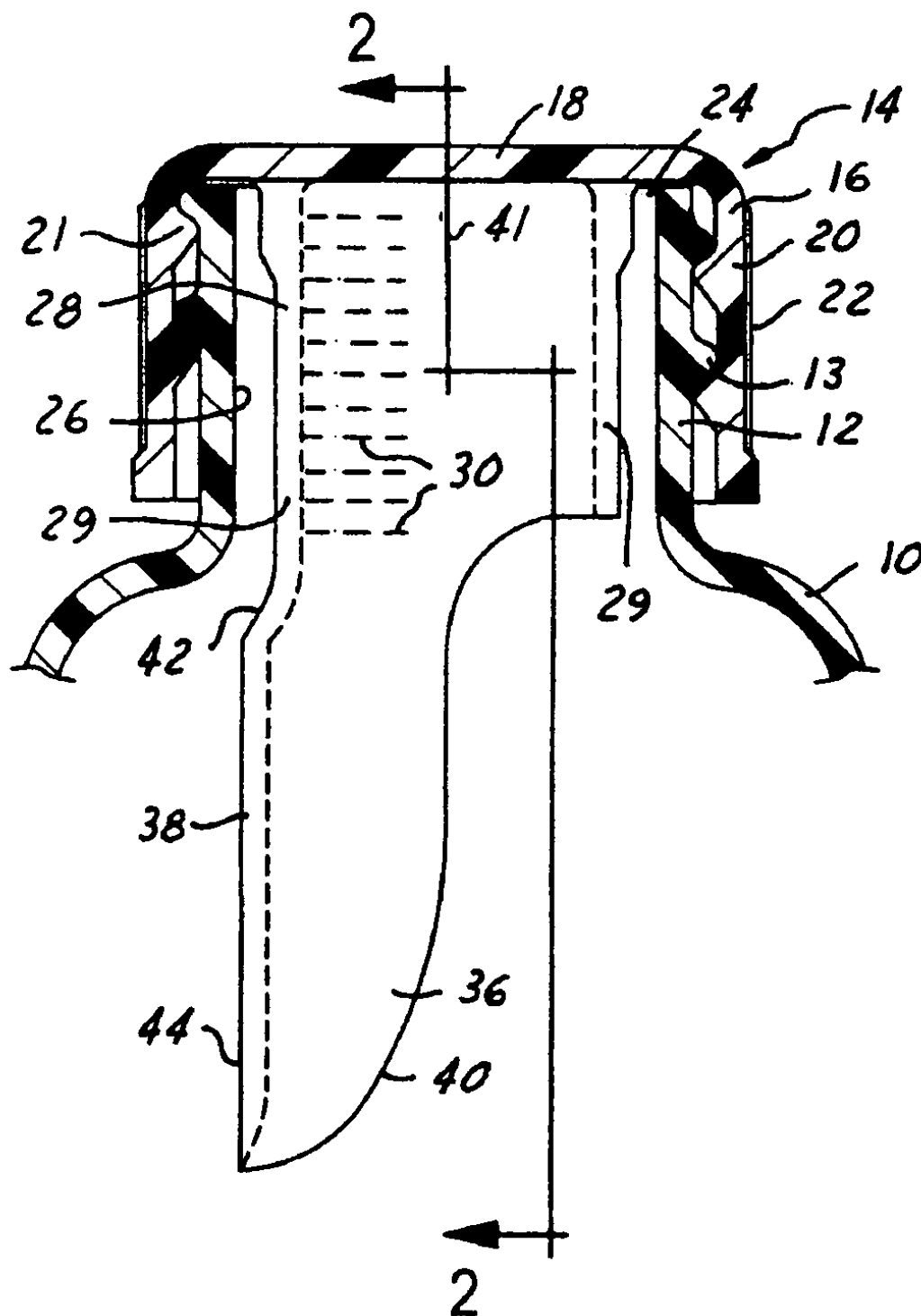
Family 40/50 - FAMPAT - ©Questel

Title

(WO200636673)

Measuring and dispensing closure

Images



Publication numbers with kind code & date

US7032632	B2	2006-04-25	US7032632
WO2006/036673	A1	2006-04-06	WO200636673
US20060065326	A1	2006-03-30	US20060065326



IPC - International classification

B65B-001/04; B65D-051/24

Abstract

(WO2006/036673)

A one-piece integrally molded plastic measuring and dispensing closure (14) that includes a base wall (18) having a skirt (20) for securing the closure to a container finish (12) and, a closed. Annular wall (29) fixedly extending from the base wall within and spaced from the skirt. The annular wall has a closed end at the base wall and an open end spaced from the

base wall to form an interior cavity. An open arcuate wall section (38) rigidly and integrally extends from the annular wall axially away from the base wall, and forms a spoon-shaped applicator (36) for dispensing product from the interior cavity.

Inventors

SHINGLE JOHN M

Latest standardized assignees - inventors removed

OWENS ILLINOIS PRESCRIPTION PRODUCTS

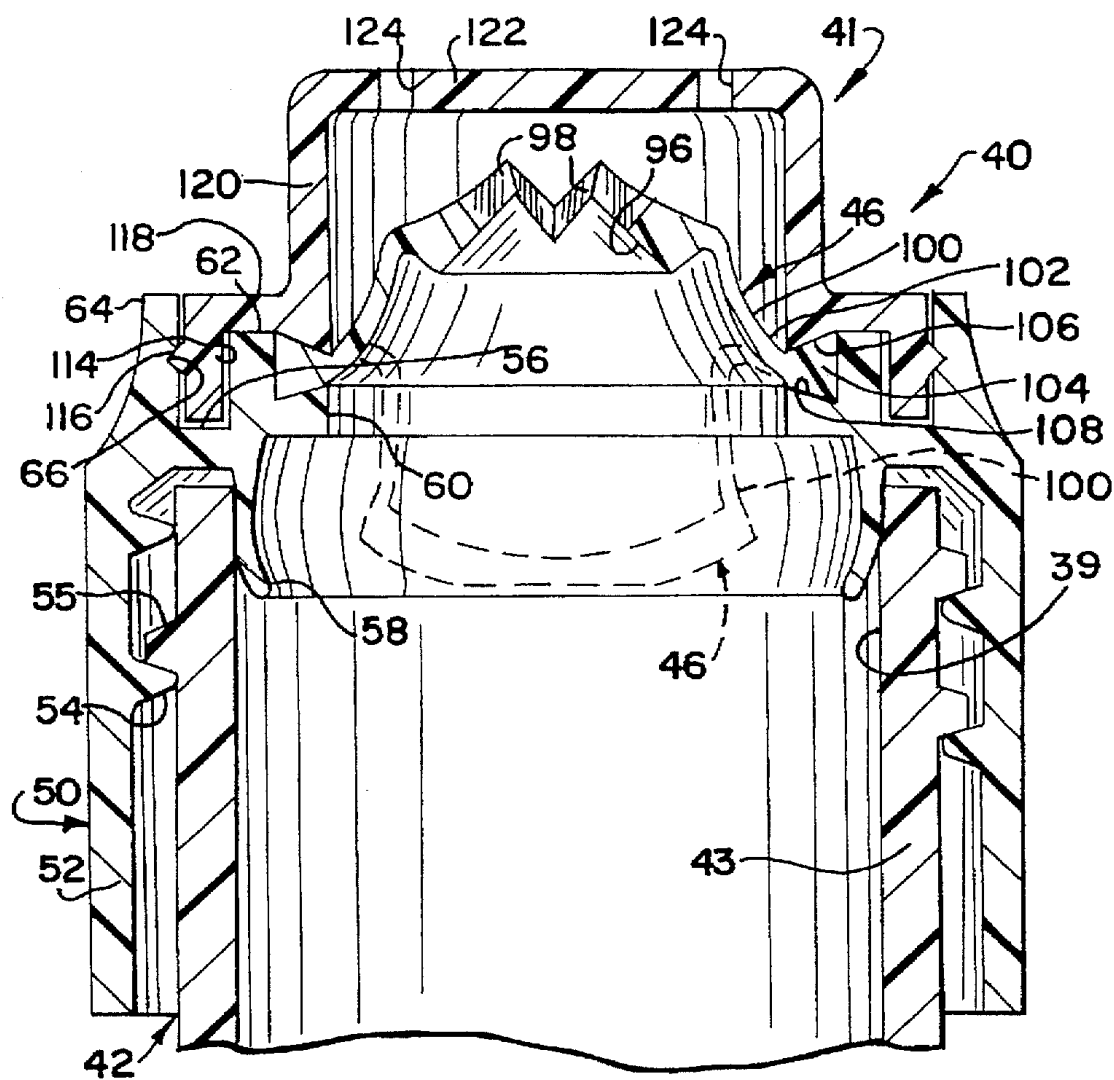
Family 41/50 - FAMPAT - ©Questel

Title

(EP-929458)

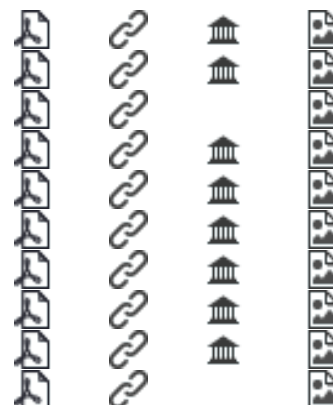
Valve-controlled dispensing closure with dispersion baffle

Images



Publication numbers with kind code & date

IN227735	B	2009-03-27	IN-227735
JP4083222	B2	2008-02-22	JP4083222
MY133644	A	2007-11-30	MY-133644
IN2331/DEL/1996	A	2005-12-23	IN1996DE02331
CA2248299	C	2005-11-01	CA2248299
DE69717835	T2	2003-07-03	DE69717835
ES2188892	T3	2003-07-01	ES2188892
DE69717835	D1	2003-01-23	DE69717835
EP0929458	B1	2002-12-11	EP-929458
HK1019436	A1	2002-04-12	HK1019436



CN1070810	C	2001-09-12	CN1070810C				
JP2000508275	A	2000-07-04	JP2000508275				
KR20000005234	A	2000-01-25	KR20000005234				
AU712818	B2	1999-11-18	AU-712818				
EP0929458	A4	1999-10-20	EP-929458				
BR9708515	A	1999-08-03	BR9708515				
EP0929458	A1	1999-07-21	EP-929458				
CN1215374	A	1999-04-28	CN1215374				
US5839626	A	1998-11-24	US5839626				
TW328935	B	1998-04-01	TW-328935				
AU1698097	A	1997-10-29	AU9716980				
CA2248299	A1	1997-10-16	CA2248299				
WO97/37899	A1	1997-10-16	WO9737899				
US5676289	A	1997-10-14	US5676289				

IPC - International classification

B65D-005/72; B65D-005/72; B65D-035/46; B65D-035/50; B65D-047/08; B65D-047/20; B65D-051/04; B65D-083/06; B65D-083/44

Abstract

(EP0929458)

A closure (40) is provided for a container (42) having an opening (39). The closure (40) includes a base (50) for mounting to the container (42) around the opening (30). A dispensing valve (46) is disposed across the base (50) and defines an orifice (98) which opens to permit flow therethrough in response to increased pressure within the container (42) and closes to shut off flow therethrough upon removal of the increased pressure. A dispersion baffle (41) is included on the base (50) outwardly of the valve (46). The baffle (41) defines a plurality of dispensing apertures (124).

Inventors

GROSS RICHARD A
MUELLER BRUCE M

Latest standardized assignees - inventors removed

SEAQUIST CLOSURES FOREIGN

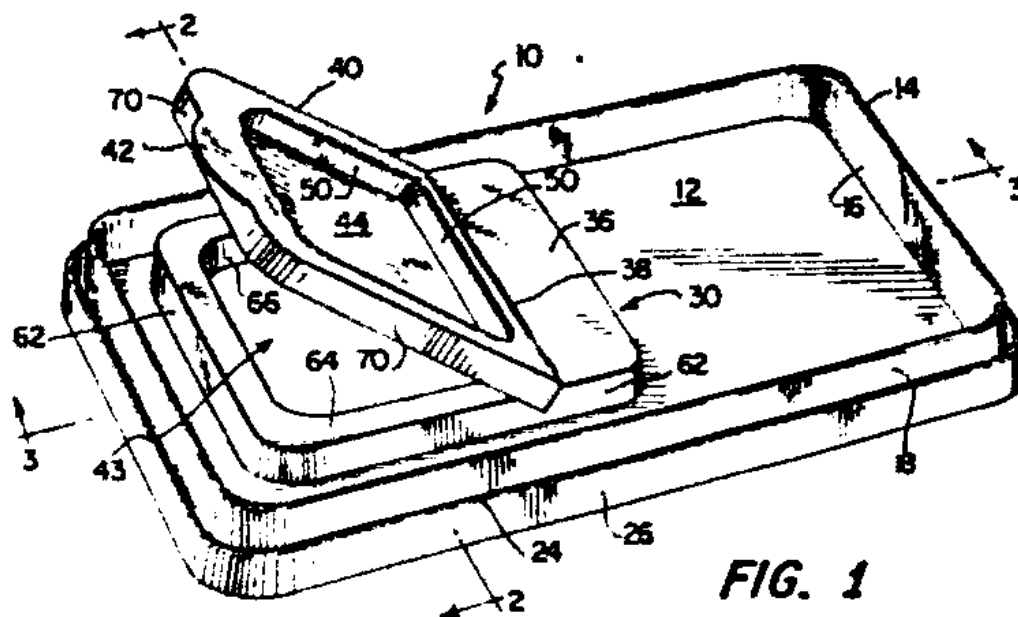
Family 42/50 - FAMPAT - ©Questel

Title

(EP--93440)

Hinged plug type lid

Images

**FIG. 1****Publication numbers with kind code & date**

US4759478	A	1988-07-26	US4759478
EP0093440	A3	1984-10-17	EP--93440
JPS5937155	A	1984-02-29	JP59037155
ZA8303045	B	1984-01-25	ZA8303045
EP0093440	A2	1983-11-09	EP--93440

**IPC - International classification**

B65D-043/16; B65D-043/16; B65D-047/08

Abstract

(EP0093440)

A container top closure integrally formed from plastic polymer material as by injection molding. The closure is adapted to be attached to the upper end of a container for granular or other pourable material. A single plastic member (12), such as polypropylene, or polyethylene, is provided with a dispensing opening (43), the opening having an integral skirt (66) downwardly depending from three sides of its periphery, to define a first dispensing opening surface. A closure flap, integrally formed with the member (12) which defines the top closure, carries two sealing surfaces (50, 70) which cooperate with complementary surfaces (66, 62) formed around the dispensing opening. The sealing surfaces provide increased moisture entrance resistance across the dispensing opening.

Inventors

RICHARDSON, LARRY A.

GORDON, ROBERT L.

SMITH, JOHN G.

Latest standardized assignees - inventors removed

INTERNATIONAL PAPER

BAXTER INTERNATIONAL

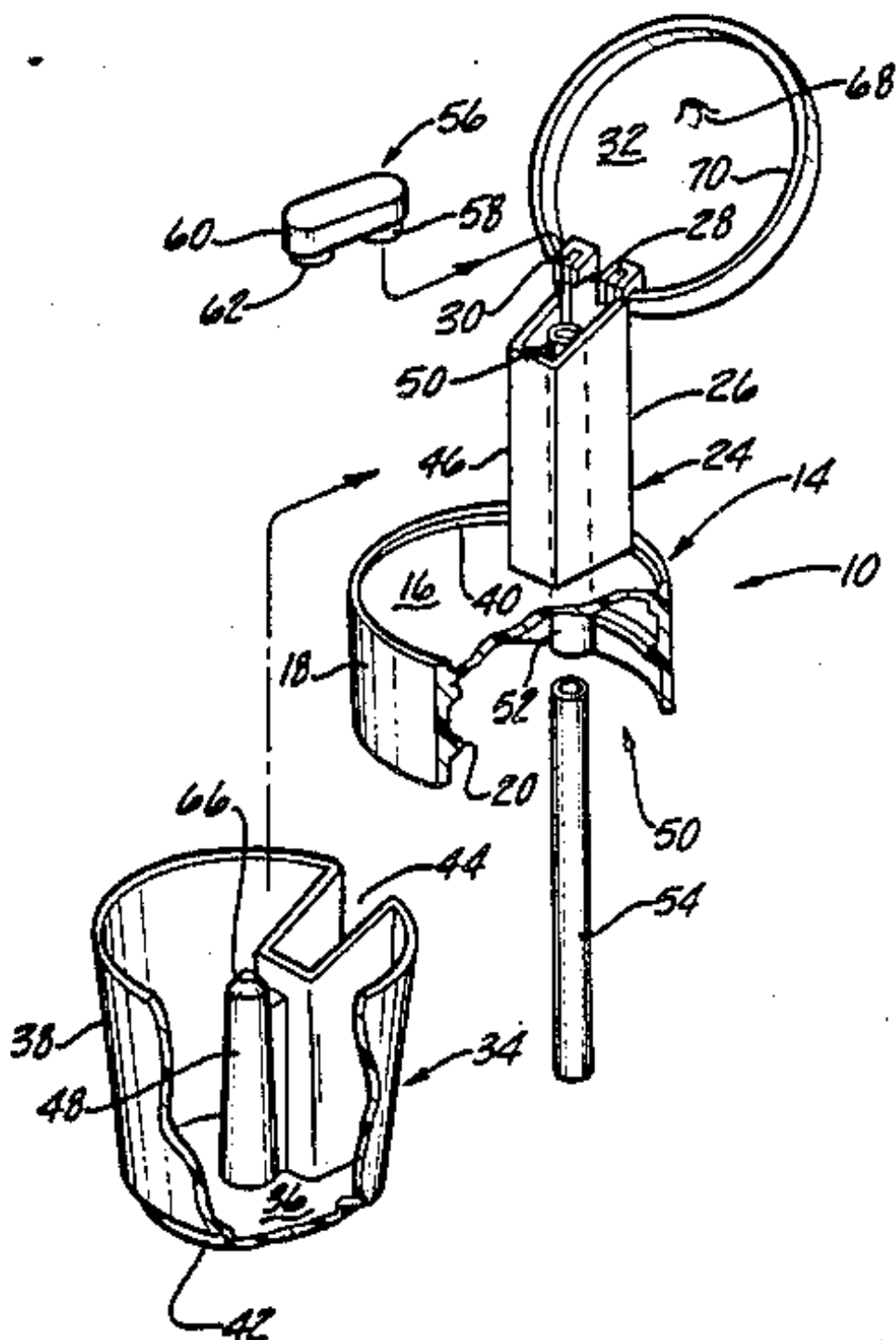
Family 43/50 - FAMPAT - ©Questel

Title

(US4660746)

Mouthwash dispenser

Images



Publication numbers with kind code & date

US4660746

A

1987-04-28

US4660746



IPC - International classification

B65D-041/26; G01F-011/28

Abstract

(US4660746)

A liquid dispensing closure cap for application to a flexible wall container. The cap has a delivery tube extending downwardly into the container and upwardly in a pedestal above the cap top. A dosage cap is seated on the top of the cap. A closure lid is hinged to the pedestal for closing over the pedestal and dosage cap. A spout connects the upper end of the delivery tube to deliver liquid to the dosage cup as the container is squeezed. Closure of the lid prevents liquid delivery

through the spout. The cup is removable from the cap and container for use, as where mouth wash is dispensed therein.

Inventors

WRIGHT DAVID M

Latest standardized assignees - inventors removed

SUNBEAM PLASTICS

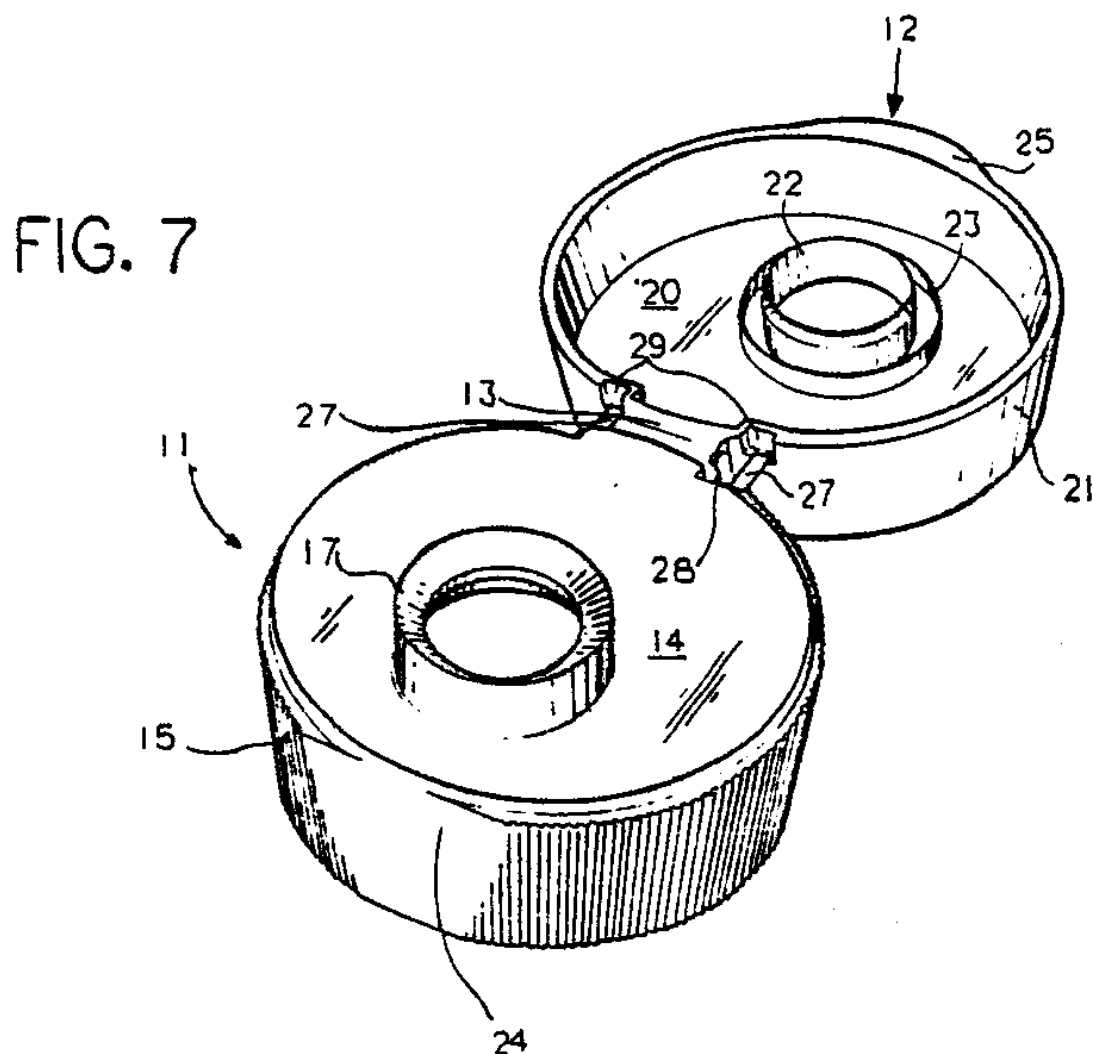
Family 44/50 - FAMPAT - ©Questel

Title

(EP-208413)

Closure with snap type hinge cap

Images



Publication numbers with kind code & date

SG119393	G	1994-01-21	SG9301193
MX166869	B	1993-02-10	MX-166869
DE3681837	D1	1991-11-14	DE3681837
AT68148	T	1991-10-15	ATE068148
EP0208413	B1	1991-10-09	EP-208413
JPH0353182	B2	1991-08-14	JP91053182
IN167339	B	1990-10-06	IN-167339
PH23618	A	1989-09-11	PH--23618
CA1258657	A	1989-08-22	CA1258657
AU2509988	A	1989-03-09	AU8825099



AU577701	B2	1988-09-29	AU-577701				
NZ216194	A	1988-03-30	NZ-216194				
EP0208413	A3	1988-02-24	EP-208413				
BR8603256	A	1987-02-24	BR8603256				
US4638916	A	1987-01-27	US4638916				
JPS6216354	A	1987-01-24	JP62016354				
AU5880086	A	1987-01-15	AU8658800				
EP0208413	A2	1987-01-14	EP-208413				
CN86103884	A	1987-01-07	CN86103884				

IPC - International classification

B65D-047/08; B65D-047/08

Abstract

(EP0208413)

A closure (10) with a snap type hinge cap (12) comprising a first part (11) adapted to interengage with the open neck of a container, a second part forming a cap (12) and an integral hinge (13) interconnecting the first and second parts. Each of the first and second parts comprises a base wall (14, 20) and a peripheral skirt (15, 21). A pair of hinge straps (27) extends from the skirts (15, 21) and are positioned on opposite sides of the integral hinge. The radial length of the pair of hinge straps is less than the length of the arc through which the second cap part moves to and from an open position relative to the first part such that the pair of straps stretch to function as springs. The ends of the pair of straps are attached to the skirts radially inwardly of the periphery of the skirts.

Inventors

BECK, JAMES MOORE

ROHR, ROBERT DALE

Latest standardized assignees - inventors removed

OWENS ILLINOIS

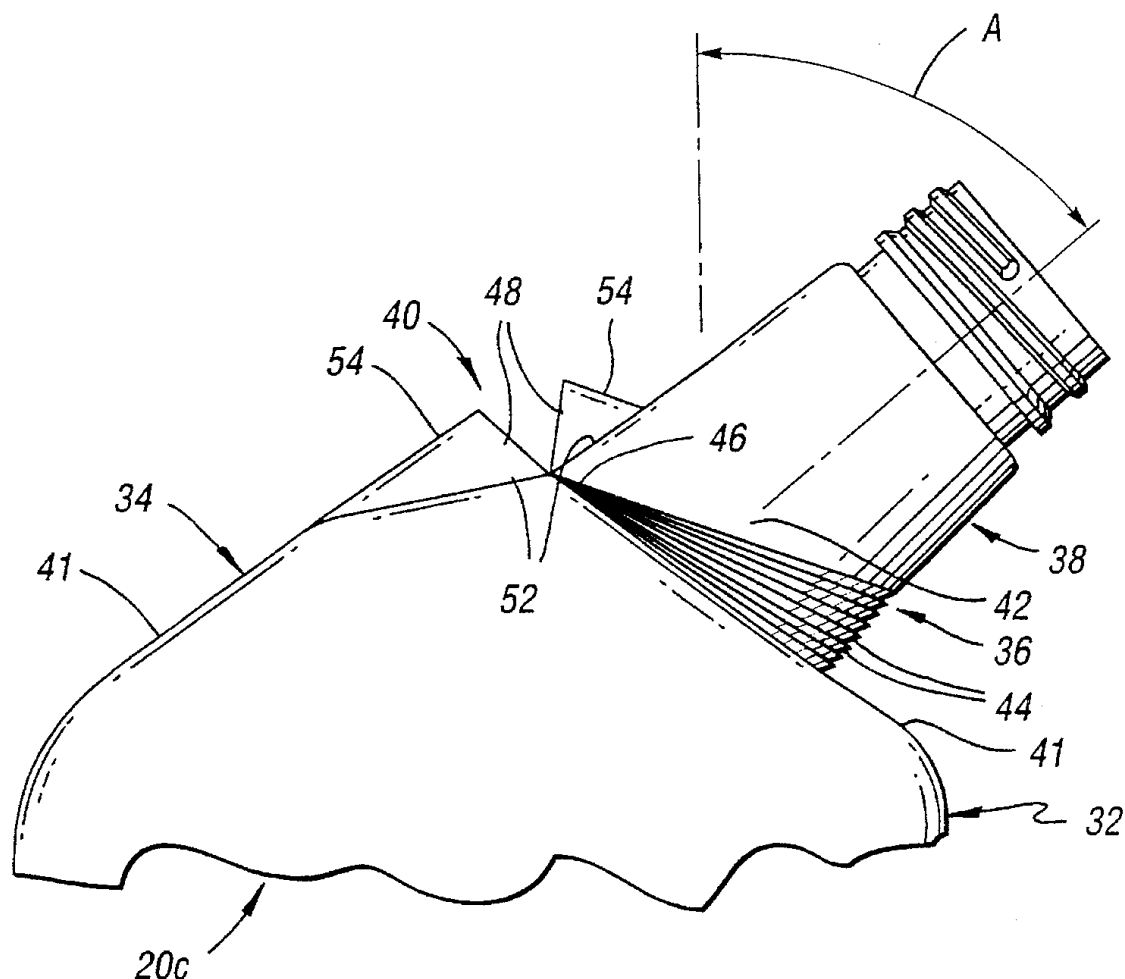
Family 45/50 - FAMPAT - ©Questel

Title

(US5503308)

Plastic blow molded bottle having bellows supported dispensing spout

Images



Publication numbers with kind code & date

CA2159795	C	2006-04-04	CA2159795
US5647516	A	1997-07-15	US5647516
CA2159795	A1	1996-04-20	CA2159795
US5503308	A	1996-04-02	US5503308



IPC - International classification

B65D-001/02; B65D-001/02; B65D-025/46; B65D-047/06

Abstract

(US5503308)

A plastic blow molded bottle (20a,20b,20c,20d) has an upper dispensing end (32) including an upper wall (34) and a generally wedge-shaped bellows (36) that supports a dispensing spout (38) on the upper wall initially vertical for filling and shipping of the bottle. The dispensing spout (38) is tilted as the generally wedge-shaped bellows (36) contracts to allow more convenient dispensing. A frangible connection (40) that initially supports the dispensing spout (38) vertically is broken to allow the dispensing spout tilting for the dispensing. The frangible connection (40) includes a tab (48) having a reduced thickness portion (50) where it is broken, preferably at connection thereof to the upper wall (34) and the dispensing spout (38) such that the tab is removable from the bottle. An inclined wall portion provided by one inclined end (41) of a horizontally elongated gable shape of the upper wall (34) mounts the generally wedge-shaped bellows (36) to support the dispensing spout (38).

Inventors

YOUNG WILLIAM C
SLAT WILLIAM A
DARR RICHARD C

Latest standardized assignees - inventors removed

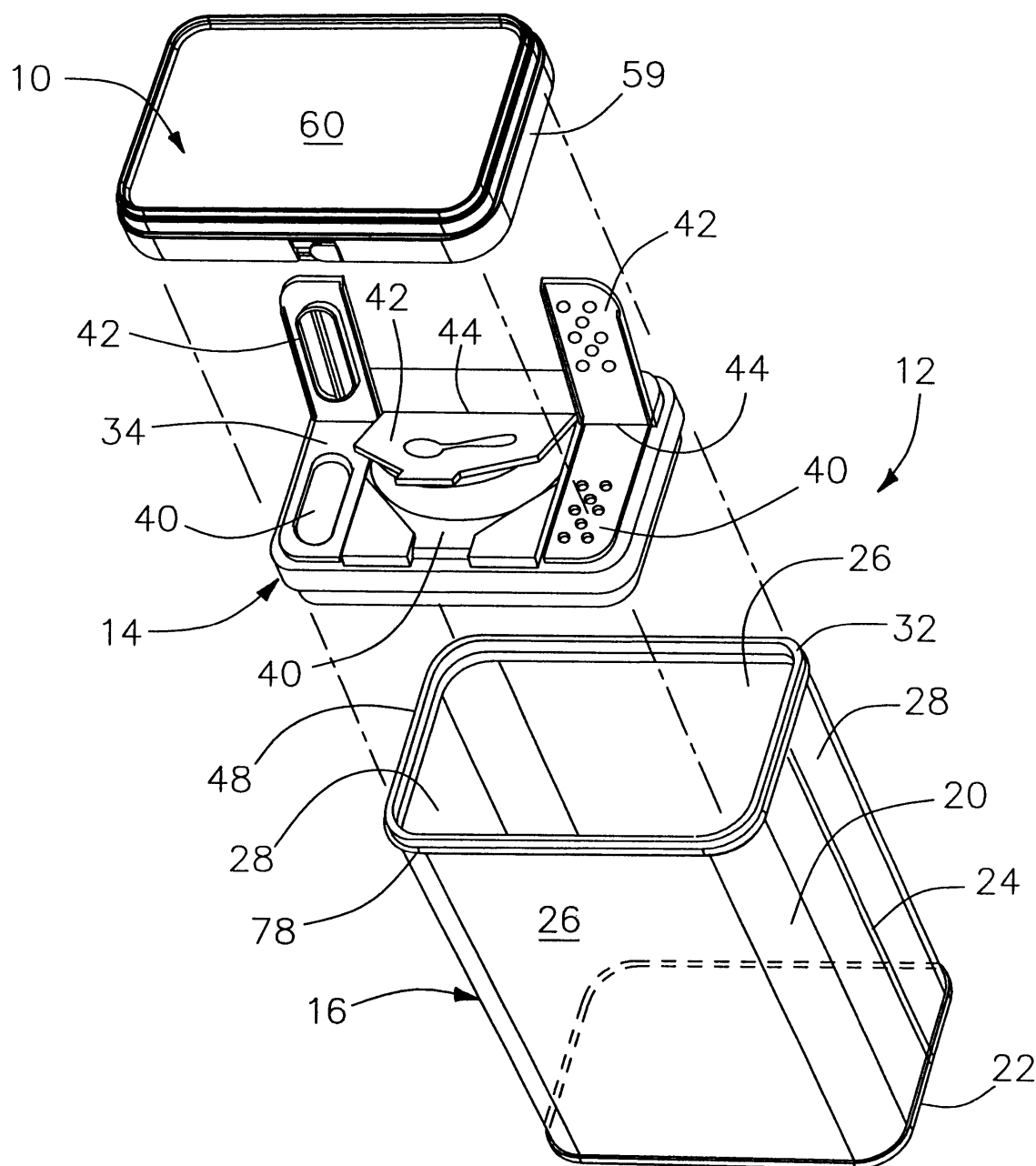
PLASTIPAK PACKAGING

Family 46/50 - FAMPAT - ©Questel

Title

(US6422411)

Tamper resistant closure overcap for metal spice can

Images**Publication numbers with kind code & date**[US6422411](#)

B1 2002-07-23

US6422411

**IPC - International classification**

B65D-017/28; B65D-021/02; B65D-043/02; B65D-047/08; B65D-051/18; B65D-083/06

Abstract

(US6422411)

A tamper resistant closure overcap for a rectangular metal spice can covers each of the dispensing ports and openable flaps on the serving lid of the can. The closure has a top panel and a downward depending rectangular border that hugs the outer periphery of the serving lid. The closure is supported in spaced relationship with the serving lid to provide a gap for receiving promotional materials. The border includes a skirt and a tear away strip that can be fully or partially

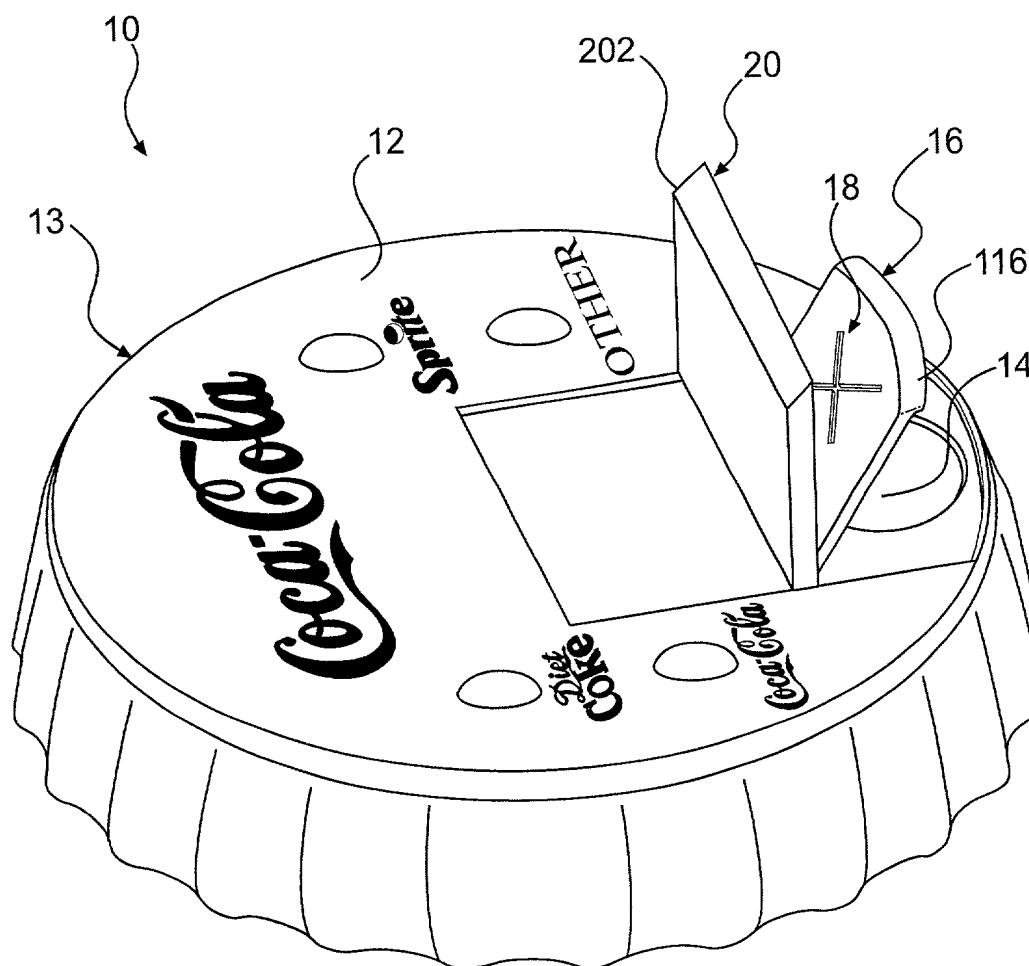
P S

Family 48/50 - FAMPAT - ©Questel

Title

(US7021481)

Container lid with multiple openings

Images**Publication numbers with kind code & date**[US7021481](#)

B2 2006-04-04

US7021481

[US20020179604](#)

A1 2002-12-05

US20020179604

**IPC - International classification**

A47G-019/22; A47G-019/24; B65D-043/02; B65D-047/08; B65D-051/18; B65D-051/18; B65D-051/24

Abstract

(US20020179604)

A lid for use with a container may include a panel and a first dispensing opening on the panel. The lid may also include a first closure on the panel, where the first closure may include a second dispensing opening. The first closure may be configured to at least partially cover the first dispensing opening. The lid may further include a second closure on the panel, where the second closure may be configured to cover the second dispensing opening.

Inventors

ST GERMAIN FREIDA

KILPATRICK TIM

SHEFFIELD JAMES S

Latest standardized assignees - inventors removed

COCA COLA

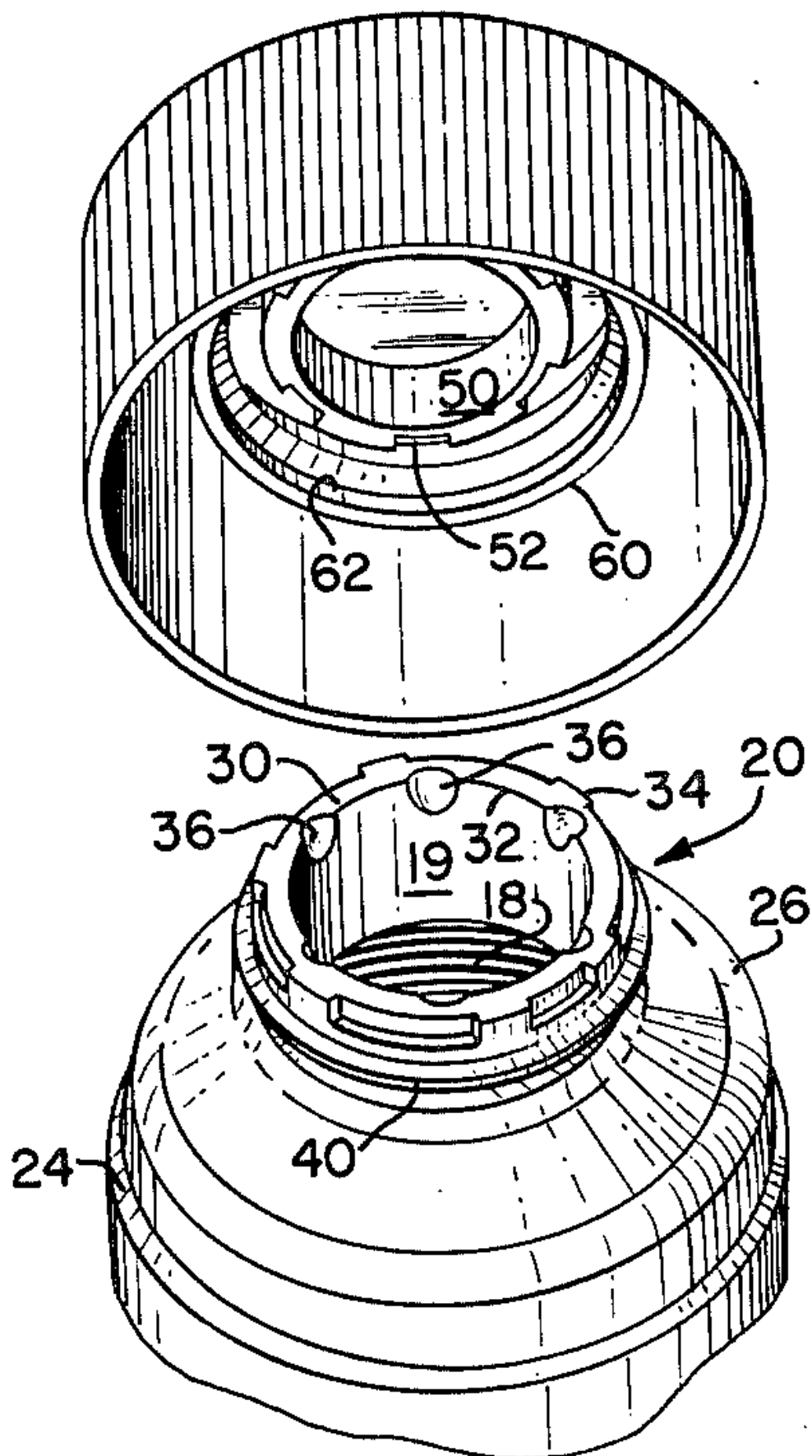
Family 49/50 - FAMPAT - ©Questel

Title

(US4022464)

Dispensing container and closure

Images



Publication numbers with kind code & date

AU497330	B2	1978-12-07	AU-497330
ES234643	Y	1978-10-01	ES-234643Y
GB1511758	A	1978-05-24	GB1511758



ES234643	U	1978-05-01	ES-234643U				
AU1662876	A	1978-02-09	AU7616628				
US4022464	A	1977-05-10	US4022464				
FR2326350	A1	1977-04-29	FR2326350				
DE2637337	A1	1977-04-07	DE2637337				
NL7610803	A	1977-04-05	NL7610803				
BE846806	A	1977-01-17	BE-846806				

IPC - International classification

B65D-047/26; B65D-083/06

Abstract

(US4022464)

A package is provided having a rotatable closure equipped with dispensing orifices. The orifices overlie a neck portion having indentations spaced about its inner edge and which when aligned with the dispensing orifices provide access to the contents of the package. The closure includes an inner annular skirt which has axial slots about its outer periphery. The slots direct the flow of the container contents through the neck indentations and out the orifices when the closure is rotated to an open position. When the closure is in a closed position, the orifices will be located above flat areas on the top edge of the container neck.

Inventors

PARKER KEITH

Latest standardized assignees - inventors removed

DART INDUSTRIES

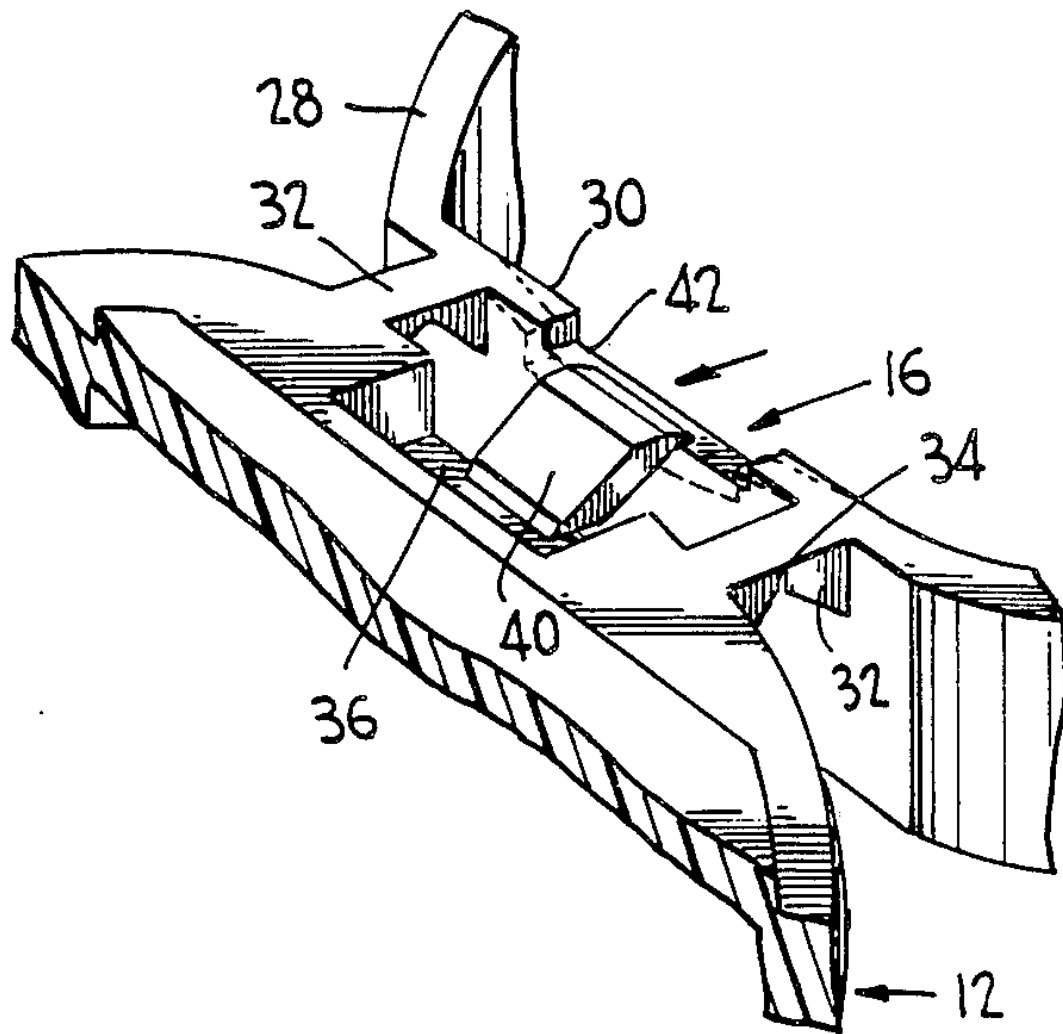
Family 50/50 - FAMPAT - ©Questel

Title

(US4813560)

Spring hinge for dispensing cap

Images

**Publication numbers with kind code & date**[US4813560](#)

A

1989-03-21

US4813560

**IPC - International classification**

B65D-047/08; B65D-047/08

Abstract

(US4813560)

This relates to a dispensing cap including a cap body and a cover which are connected together by suitable hinges so that the cover may swing between a fully open position and a fully closed position. In association with the hinges, there is a strap which connects a bendable wall portion of the cover to the cap body. The strap, in the open position of the cover, is located on one side of hinge centers and as the cover is swung towards a closed position, the strap passes through an overcenter position where a greater length of strap is required, thus effecting bending of the cover wall portion between the hinges to provide a spring effect. In the closed position of the cover, the strap is on the other side of the hinge center and bending of the cover wall portion is held to a minimum.

Inventors

BEGLEY DOUGLAS G

Latest standardized assignees - inventors removed

CONTINENTAL WHITE CAP