

Search history

Search 1: SFT=(capsule and safety and closure and vertical and line) and PD<20180910 and CPC=(B65D) (Results 136)

Search 2: SFT=(capsule and safety and closure and vertical and line and evidence) and PD<20180910 and CPC=(B65D) (Results 20)

1) Family number: 62400029 (US2016135637A)

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Title:	METHOD FOR PREPARING A BEVERAGE OR LIQUID FOOD AND SYSTEM USING BREWING CENTRIFUGAL FORCE																													
Priority:	EP20070109579 20070605		EP20070109580 20070605		EP20080102147 20080229																									
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Probable Assignee:	DES PRODUITS NESTLE SA SOC																													
Assignee(s):(std):	NESTEC S A ; NESTEC SA																													
Assignee(s):	DES PRODUITS NESTLE SA SOC																													
Inventor(s):(std):	YOAKIM ALFRED ; DENISART JEAN PAUL ; RYSER ANTOINE																													
Agent(s):	WINSTON AND STRAWN LLP																													
International class (IPC 8-9):	A47J31/22 A47J31/40 B65D85/804 (Advanced/Invention)																													
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US class:	1/1 426/394 99/295																													

[Classification Explorer](#)

Cited documents: WO9402059 A1, WO10041179 A2, WO10038213 A2, WO10026053 A1, WO10026045 A1, WO09133134 A1, WO09106598 A1, WO09106175 A1, WO09050540 A1, WO08148834 A1, WO08148656 A1, WO08148650 A1, WO08148646 A1, WO08148604 A1, WO08148601 A1, WO08087099 A2, WO07110768 A2, WO07085921 A2, WO07042414 A1, WO07041954 A1, WO07014584 A1, WO06112691 A1, WO06082064 A1, WO05066040 A2, WO04030500 A1, WO0235977 A1, WO0217760 A1, US8813634 BB, US8512784 BB, US8431175 BB, US8409646 BB, US8327754 BB, US8307754 BB, US8151694 BB, US7981451 BB, US7770512 BB, US7569243 BB, US7569242 BB, US7469627 BB, US7325479 BB, US7325478 BB, US7216582 BB, US7153530 BB, US7017775 BB, US6854378 BB, US6849285 BB, US6786134 BB, US6777007 BB, US6607762 BB, US6007853 A, US5948455 A, US5826492 A, US5773067 A, US5755149 A, US5656311 A, US5649472 A, US5637335 A, US5566605 A, US5343799 A, US5325765 A, US5300308 A, US5265517 A, US5047252 A, US4962693 A, US4859337 A, US4846052 A, US4806375 A, US4584101 A, US4545296 A, US4473002 A, US4464982 A, US4426919 A, US4136202 A, US3985069 A, US3967546 A, US3822013 A, US3812773 A, US3654852 A, US3566770 A, US3269298 A, US3233535 A, US3025781 A, US2952202 A, US2899886 A, US2778739 A, US239659 A, US2012058226 AA, US2011262601 AA, US2011244099 AA, US2011217421 AA, US2011189362 AA, US2011052761 AA, US2011041702 AA, US2010239734 AA, US2010203208 AA, US2010203198 AA, US2010186599 AA, US2010178404 AA, US2010178392 AA, US2010176004 AA, US2010108541 AA, US2010064899 AA, US2010024658 AA, US2009218877 AA, US2009155422 AA, US2009136639 AA, US2009050540 AA, US2009032454 AA, US2008187638 AA, US2008122286 AA, US2008038414 AA, US2008014860 AA, US2007289453 AA, US2007248734 AA, US2007079708 AA, US2006236871 AA, US2006196364 AA, US2006110507 AA, US2006003075 AA, US2005188854 AA, US2005150390 AA, US2004255790 AA, US2003189872 AA, US2003159593 AA, US2003145736 AA, US2003116029 AA, US1963476 A, TW200718383 A, JP6339431 A2, JP63034581 U1, JP62254719 A2, JP6104091 A2, JP59082817 A2, JP50016225 A2, JP3034606 U, JP2189114 A2, JP2124111 A2, JP2008520298 T2, JP2008508041 T2, JP2006518226 T2, JP2006515764 T2, JP2005525146 T2, JP2005516602 T2, JP2005199071 A2, JP2004517654 T2, JP2003144973 A2, JP2002215414 A2, JP2002189115 A2, JP2001061663 A2, GB2416480 A1, GB2253336 A1, GB2227405 A1, GB1506074 A, FR2726988 A1, FR2686007 A1, FR2685186 A1, FR2624364 A1, FR2617389 A1, FR2535597 A1, FR2531849 A1, FR2513106 A1, FR2487661 A1, FR2132310 A1, EP2155021 B1, EP2000062 A1, EP1813333 A2, EP1774878 A1, EP1654966 B1, EP1299022 B1, EP1208782 B1, EP0806373 B1, EP0749713 B1, EP0651963 B1, EP0607759 A1, EP0521510 A1, EP0521187 A1, EP0512470 B1, EP0367600 A1, EP0250810 A1, EP0242556 A1, DE4439252 A1, DE4240429 A1, DE3719962 C1, DE3529204 A1, DE3529053 A1, DE3241606 A1, DE2151920 A1, DE10355671 A1,

DE102005007852 A1

CN1656983 A, CN101001555 A, CA2625215 AA, BE894031 A, AT197553 B,

Forward Citations: US2017233178, US10118757,

Abstract:

A method and system for preparing a beverage or liquid from a food substance contained in a filtering receptacle by passing water through the substance using brewing centrifugal forces. The method includes feeding water into the receptacle, and driving the receptacle in centrifugal rotation to force water to flow through the substance in a centrifugal flow path to the outlet of the receptacle. The system includes equipment necessary to carry out the method. The receptacle is a sealed capsule which is opened for water to be introduced into the capsule, contains a predetermined dose of food substance and is discarded after use.

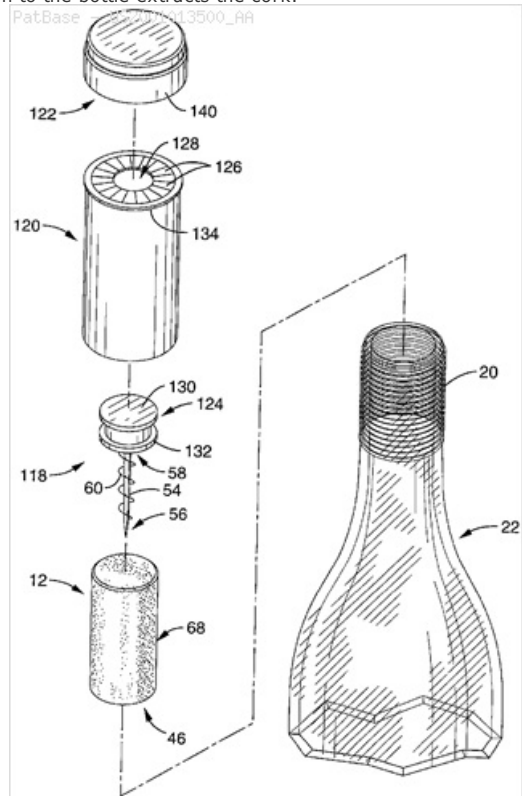
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Forward Citations:

WO9961363, WO18193422, WO14001859, WO13179104, WO11074998, WO11022307, WO11022307, WO10028243, WO07077489, WO07077489, WO06115467, WO06061858, WO06008095, WO03099671, USD474084, US9909798, US9415904, US9346591, US8915167, US8807363, US8714382, US8672160, US7988019, US7314661, US7290463, US7134362, US6763961, US6568549, US6530295, US6510957, US2018099848, US2017312929, US2017252999, US2017252993, US2016116201, US2015158622, US2014352590, US2013153576, US2011036839, US2011036805, US2011017698, US2009065466, US2009051159, US2009045159, US2008203113, US2008035599, US2007131639, US2007107556, US2007071939, US2006261029, US2006243098, US2005247662, US2004031770, US2003129291, US2003084179, US10472134, US10414061, US10399751, US10343822, US10220991, US10000405, ITVR20130063, IT201700044489, EP3268303, EP2588421, EP2588421, EP2467309, EP2467309, EP1716221, EA8461, EA008461, DE102006047040, CN105600102, CN104354976, CN102871547, CN102871547, CN102770349, AU2017200576,

Abstract:

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



3) Family number: 31779120 (US2005067441A)

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Title:	FLEXIBLE GATE RESTRICTOR MEMBRANE APPARATUS				
Priority:	US20030506568P 20030929 US20060763953P 20060201		US20040953007 20040928 US20070701855 20070201		WO2004US32011 20040929
Family:	Publication number	Publication date	Application number	Application date	
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	US2005067441 AA	20050331	US20040953007	20040928	
	US2007164057 AA	20070719	US20070701855	20070201	
	US7823756 BB	20101102	US20070701855	20070201	
	WO05032954 A2	20050414	WO2004US32011	20040929	
	WO05032954 A3	20070607	WO2004US32011	20040929	
Probable Assignee:	ALLEY KENNETH A				
Assignee(s):(std):	ALLEY KENNETH A				
Inventor(s):(std):	ALLEY KENNETH A				
Inventor(s):	ALLEY KENNETH				
Agent(s):	DIMOCK STRATTON LLP; LAW OFFICES OF MARK A GARZIA PC; MARK A				
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW				
International class (IPC 8-9):	B29C49/04 B43K5/00 B65D1/02 B65D23/10 B65D3/00 B65D47/00 B65D47/04 B65D47/20 B65D55/02 B67D3/00 B67D5/28 (Advanced/Invention); B29C49/04 B43K5/00 B65D1/02 B65D23/10 B65D3/00 B65D47/00 B65D47/04 B67D3/00 (Core/Invention)				
International class (IPC 1-7):	B65D B67D3/00				
CPC:	A61J9/005 B29C49/04 B29K2023/065 B65D1/023 B65D23/102 B65D47/2018 Y10S215/90				

European class: A61J9/00C B29C49/04 B65D1/02D1 B65D23/10B B65D47/20E L29C49/04 L29K23/06B9

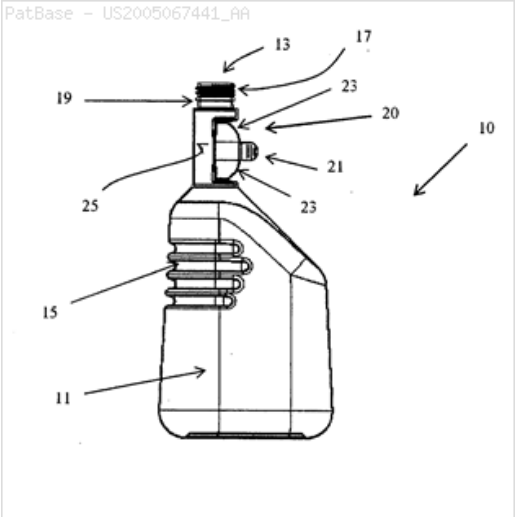
US class: 215/6 215/900 222/107 222/528 222/547 222/564

[Classification Explorer](#)

Cited documents: US5950819 A, US5647516 A, US5624062 A, US5611776 A, US5529224 A, US5474734 A, US5419445 A, US5350240 A, US5275298 A, US5139174 A, US5065914 A, US4928852 A, US4690375 A, US4620665 A, US4592493 A, US4572413 A, US4572412 A, US4328912 A, US3616961 A, US3323694 A, US3047179 A, US2990979 A, US2957501 A, US2798644 A, US2665826 A, US2285227 A, US2101310 A, US2006196895 AA,

Forward Citations: US9550600, US9447995, US9413396, US9372016, US9296525, US9205969, US9174791, US9140476, US9139351, US9138295, US8893672, US8887944, US8703259, US8603598, US8529501, US8485387, US8377030, US8322147, US8215835, US8215518, US8211516, US8113241, US8069680, US2014008376, US2011301532, US2011155745, US2011127273, US2010213200, US2010122676, US2010018981, US2009286022, US2009283534, US2009272930, US2009145912, US2009145911, US2009145910, US2009145793, US2009145164, US2009145163, US10189614, TWI363943, CN105129257,

Abstract:
A valve using a flexible membrane integrated into the throat or passageway. The membrane forms a portion of the passageway's sidewall. The membrane is designed to collapse against another portion of the sidewall to restrict flow of product through the passageway, when it is in one position (i.e., its open position) the flexible membrane forms an inconspicuous part of the sidewall (as far as product moving through the passageway) and product can pass through the passageway freely, when it is in a second position (i.e., its closed position), the flexible membrane is collapsed against a rigid or non-movable portion of the sidewall thereby preventing flow of the product through the passageway.



4) Family number: 51299155 (US2010173056A) © PatBase

Title: METHOD FOR PREPARING A BEVERAGE OR LIQUID FOOD AND SYSTEM USING BREWING CENTRIFUGAL FORCE

Priority: EP20070109579 20070605 EP20070109580 20070605 EP20080102147 20080229
EP20080102148 20080229 EP20080102149 20080229 WO2008EP54401 20080411
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Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee: DES PRODUITS NESTLE SA SOC

Assignee(s):(std): DENISART JEAN PAUL ; NESTEC SA ; NESTLE SA ; RYSER ANTOINE ; YOAKIM ALFRED

Assignee(s): DES PRODUITS NESTLE S A SOC ; DES PRODUITS NESTLE SA SOC ; NESTEC S A

Inventor(s):(std): ALFRED YOAKIM ; ANTOINE RYSER ; JEAN PAUL DENISART ; YOAKIM ALFRED ; RYSER ANTOINE ; DENISART JEAN PAUL

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ZHONGZI IP; DR YITZHAK HESS AND PARTNERS; WINSTON AND STRAWN LLP,PATENT DEPARTMENT; WINSTON AND STRAWN LLP PATENT DEPARTMENT; WINSTON AND STRAWN LLP; BORNE PATRICE

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

International class (IPC 8-9): A23F3/18 A23F3/30 A23F5/26 A23F5/36 A23L2/00 A23L2/38 A47J A47J31/00 A47J31/06 A47J31/20 A47J31/22 A47J31/36 A47J31/40 A47J31/44 B65D B65D77/00 B65D81/32 B65D85/804 (Advanced/Invention); A23F3/00 A23F5/24 A23L2/00 A23L2/38 A47J31/00 A47J31/06 A47J31/40 A47J31/44 B65D77/00 B65D85/804 (Core/Invention); A47J B65D (Subclass/Invention)

International class (IPC 1-7): A47J31/00 A47J31/22 A47J31/40 B65D85/804

CPC: A47J31/22 B65D85/8043 A47J31/407

European class: A47J31/22 B65D85/804B

US class: 1/1 426/115 426/431 426/431S 426/433 426/433P 426/435 426/435S 426/77 99/287 99/287S 99/295 99/295P 99/302.00CS 99/302C

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Cited documents: WO9402059 A1, WO10041179 A2, WO10038213 A2, WO10026053 A1, WO10026045 A1, WO09133134 A1, WO09106598 A1, WO09106175 A1, WO09050540 A1, WO08148834, WO08148656, WO08148650, WO08148646, WO08148604 A1, WO08148601 A1, WO08087099 A2, WO07110768 A2, WO07085921 A2, WO07042414 A1, WO07041954, WO07014584 A1, WO06112691, WO06082064 A1, WO05066040 A2, WO04030500 A1, WO0235977 A1, WO0217760 A1, US952202 A, US8813634 BB, US8512784 BB, US8431175 BB, US8409646 BB, US8327754 BB, US8307754 BB, US8151694 BB, US8151684 BB, US7981451 BB, US7772512 BB, US7770512 BB, US7599243 BB, US7569243 BB, US7569242 BB, US7469627 BB, US7325479 BB, US7325478 BB, US7216582 BB, US7153530 BB, US7017775 BB, US6854378 BB, US6849285 BB, US6786134 BB, US6777007 BB, US6607762 BB, US6007853 A, US5948455 A, US5826492 A, US5773067 A, US5759604 A, US5755149 A, US5656311 A, US5649572 A, US5649472 A, US5637335 A, US5566605 A, US5343799 A, US5325765 A, US5325765, US5300308 A, US5265517 A, US5047252 A, US4962693 A, US4859337 A, US4846052 A, US4806375 A, US4584101 A, US4545296 A, US4473002 A, US4464982 A, US4426919 A, US4136202 A, US3985069 A, US3967546 A, US3822013 A, US3812773 A, US3654852 A, US3566770 A, US3269298 A, US3233535 A, US3025781 A, US2952202 A, US2899886 A, US2778739 A, US239659 A, US2012058226 AA, US2011262601 AA, US2011244099 AA, US2011217421 AA, US2011189362 AA, US2011052761 AA, US2011041702 AA, US2010239734 AA, US2010203208 AA, US2010203198 AA, US2010186599 AA, US2010178404 AA, US2010178392 AA, US2010176004 AA, US2010173056 AA, US2010108541 AA, US2010064899 AA, US2010024658 AA, US2009218877 AA, US2009155422 AA, US2009136639 AA, US2009050540 AA, US2009032454 AA, US2008187638 AA, US2008122286 AA, US2008038414 AA, US2008014860 AA, US2007289453 AA, US2007248734 AA, US2007079708 AA, US2006236871 AA, US2006196364 AA, US2006110507 AA, US2006003075 AA, US2005188854 AA, US2005150390 AA, US2004255790 AA, US2003189872 AA, US2003159593 AA, US2003145736 AA, US2003116029 AA, US1963476 A, US1963426 A, TW200718383, JP55982817, JP6339431 A2, JP6339431, JP63034581 U1, JP63034581 U, JP63034581 U, JP62254719 A2, JP6104091 B4, JP6104091 B2, JP59082817 A2, JP5525146 T2, JP55124111, JP50016225 A2, JP3034606 U, JP3034606, JP2189114 A2, JP2189114, JP2124111 A2, JP2008520298 T2, JP2008508041 T2, JP2006518226 T2, JP2006515764 T2, JP2005525146 T2, JP2005516602 T2, JP2005516602 T2, JP2005516602, JP2005516602, JP2005199071 A2, JP2004517654 T2, JP2003144973 A2, JP2002215414 A2, JP2002189115 A2, JP2001061663 A2, JP2001061663, GB2416480 A1, GB2253336, GB2227405 A1, GB1506074 A, FR2726988, FR2686007, FR2685186 A1, FR2624364, FR2617389 A1, FR2535597, FR2531849 A1, FR2513106, FR2487661, FR2132310, EP2155021 B1, EP2000062 A1, EP1813333 A2, EP1774878, EP1654966 B1, EP1299022 B1, EP1208782 B1, EP0806373 B1, EP0749713, EP0651963, EP0607759 A1, EP0521510 A1, EP0521210 A1, EP0521187 A1, EP0512470 A1, EP0367600 A1, EP0250810 A1, EP0242556 A1, DE4439252 A1, DE4240429 A1, DE3719962 C1, DE3529204 A1, DE3529053 A1, DE3241606 A1, DE2151920 A1, DE10355671 A1, DE102005008852,

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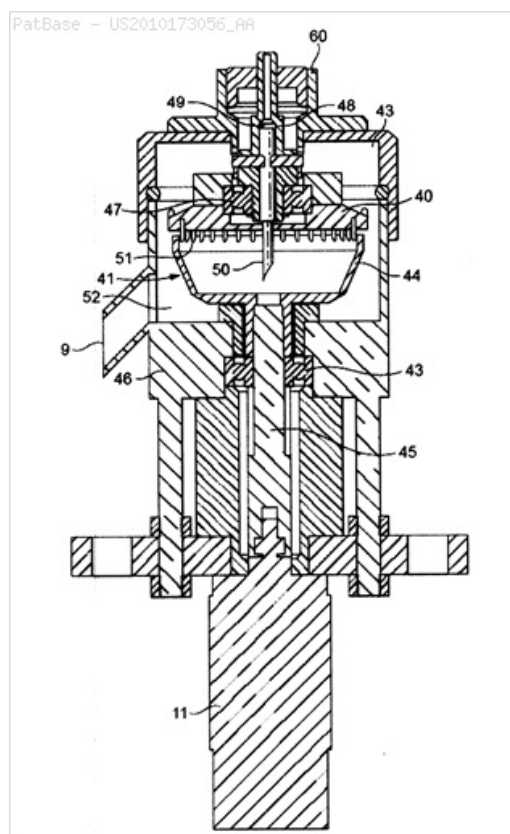
CN1656983 A, CN101001555 A, CN10100155 A, CA2625215 AA, BE894031 A, AT197553 B,

Forward Citations: WO19145716, WO18024587, WO17068134, WO17046294, WO15193774, WO15096998, WO14102048, WO14096123, WO14096122, WO14090850, WO13171238, WO13098173, WO13060654, WO13037783, WO13037782, WO13037781, WO13007780, WO13007779, WO13007776, WO12130928, WO12130926, WO12110323, WO12100977, WO12100976, WO12100975, WO12100836, WO12072509, WO12072508, WO12007293, WO11095518, WO11092301, WO11069830, WO11069829, WO11023711, WO10089329, USD764270, US9999315, US9980595, US9968217, US9968111, US9877495, US9808113, US9801494,

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Abstract:

A method for preparing a beverage or liquid from a food substance contained in a filtering receptacle by passing water through the substance using brewing centrifugal forces. The method includes feeding water into the receptacle, and driving the receptacle in centrifugal rotation to force water to flow through the substance in a centrifugal flow path to the outlet of the receptacle. The receptacle is a sealed capsule which is opened for water to be introduced into the capsule, contains a predetermined dose of food substance and is discarded after use.



5) Family number: 51299167 (EP2155019B1)

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Title: METHOD FOR PREPARING A BEVERAGE OR LIQUID FOOD
Priority: EP20070109579 20070605 EP20070109580 20070605 EP20080102148 20080229
EP20080102149 20080229 EP20080102147 20080229 EP20080749541 20080411
WO2008EP54401 20080411

Family:	Publication number	Publication date	Application number	Application date
	EP2155019 A1	20100224	EP20080749541	20080411
	EP2155019 B1	20110406	EP20080749541	20080411
	PL2155019 T3	20110930	PL20080749541T	20080411

Probable Assignee: NESTEC SA
Assignee(s):(std): NESTEC SA
Assignee(s): NESTEC S A
Inventor(s):(std): DENISART JEAN PAUL ; RYSER ANTOINE ; YOAKIM ALFRED

Agent(s): BORNE PATRICE DANIEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

International class (IPC 8-9): A47J31/06 A47J31/22 (Advanced/Invention); A47J31/00 A47J31/06 (Core/Invention)

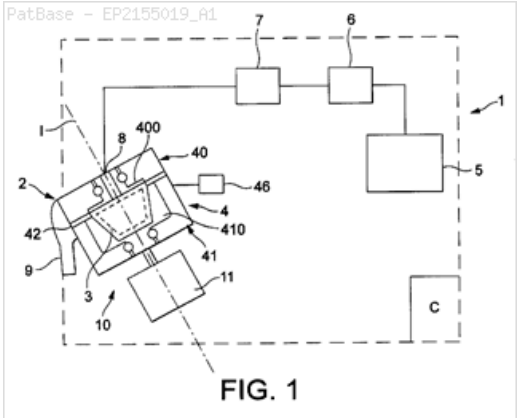
CPC: A47J31/22 B65D85/8043 A47J31/407

European class: A47J31/22 B65D85/804B

[Classification Explorer](#)

Abstract:
(Claim 1) 1. Method for preparing, in a beverage preparation device, a beverage or liquid from a food substance contained in a filtering receptacle by passing water through the substance using brewing centrifugal forces comprising:

- feeding water in the receptacle,
- driving the receptacle in centrifugal rotation in the beverage preparation device to force water to flow through the substance in a centrifugal flow path to outlet means of the receptacle,
- wherein the receptacle is formed by a sealed capsule before its use which is opened for water to be introduced in the capsule; said capsule containing a predetermined dose of food substance and being discarded after use.



6) Family number: 51299168 (EP2155020B1) © PatBase

Title: CAPSULE FOR PREPARING A BEVERAGE OR LIQUID FOOD AND SYSTEM USING BREWING CENTRIFUGAL FORCE KAPSEL ZUR ZUBEREITUNG VON GETRAENKEN ODER FLUESSIGNAHRUNG UND SYSTEM MIT VERWE

Priority: EP20070109579 20070605 EP20070109580 20070605 EP20080102148 20080229
EP20080102149 20080229 EP20080102147 20080229 EP20080736426 20080421
WO2008EP54810 20080421

Family:	Publication number	Publication date	Application number	Application date
	DE602008011993 D1	20120216	DE200860011993T	20080421
	DK2208449 T3	20161003	DK20080161053T	20080421
	DK2208449 T3	20161003	DK20100161053T	20080421
	EP2155020 A1	20100224	EP20080736426	20080421
	EP2155020 B1	20111214	EP20080736426	20080421

Probable Assignee: NESTEC SA

Assignee(s):(std): NESTEC SA

Assignee(s): NESTEC S A

Inventor(s):(std): YOAKIM ALFRED ; RYSER ANTOINE ; DENISART JEAN PAUL

Agent(s): MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; BORNE PATRICE DANIEL

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

International class (IPC 8-9): A47J31/06 A47J31/22 B65D85/804 (Advanced/Invention); A47J31/00 B65D85/804 (Core/Invention)

CPC: A47J31/22 B65D85/8043 A47J31/407

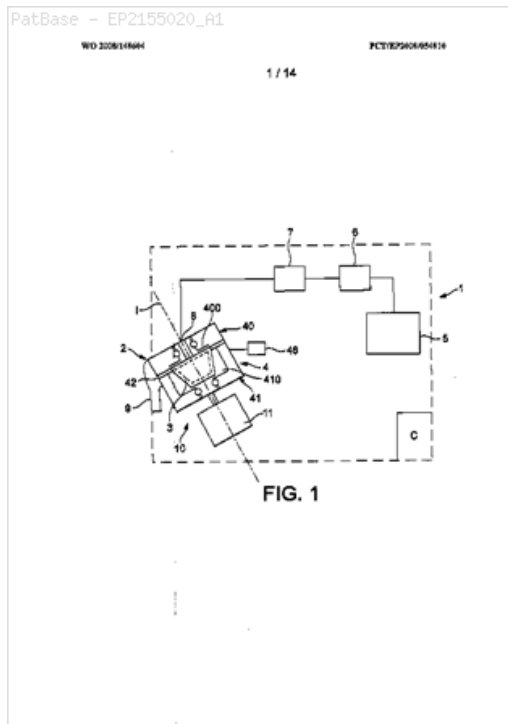
European class: A47J31/22 B65D85/804B

[Classification Explorer](#)

Forward Citations: WO17046294, WO14096123, WO14096122, WO13007780, WO13007779, WO13007776, EP2934247, EP2934246, EP2731480, EP2731479,

Abstract:
(Claim 1) 1. Capsule (3) for preparing a beverage or liquid food in a centrifugal brewing device from a food substance contained in the capsule by passing water through the substance using brewing centrifugal forces comprising:

- a body (70) and an enclosure,
- means for engaging the capsule to external rotational driving means of a centrifugal brewing device wherein said means are configured to offer a resistance to torque during rotation of the capsule for maintaining the capsule in a reference rotational position,
- **characterized in that** the enclosure contains a predetermined dose of substance and said body is closed at its upper edge (72) by an upper membrane (71),
- and **in that** the engaging means comprise a toothed structure (750) or a series of elements in relief and/or hollow on the outer surface of the capsule.



7) Family number: 51299170 (EP2208449A2)

© PatBase

Title: CAPSULE FOR PREPARING A BEVERAGE OR LIQUID FOOD AND SYSTEM USING BREWING CENTRIFUGAL FORCE KAPSEL ZUR HERSTELLUNG EINES GETRAENKS ODER FLUESSIGEN NAHRUNGSMITTELS UND SYST

Priority: EP20070109579 20070605 EP20070109580 20070605 EP20080102148 20080229
EP20080102147 20080229 EP20080102149 20080229 EP20080736426 20080421
EP20100161053 20080421 EP20100161050 20080421

Family:	Publication number	Publication date	Application number	Application date
	EP2208449 A2	20100721	EP20100161053	20080421
	EP2208449 A3	20150909	EP20100161053	20080421
	EP2208449 B1	20160831	EP20100161053	20080421
	EP2210538 A2	20100728	EP20100161050	20080421
	EP2210538 A3	20150909	EP20100161050	20080421
	EP2210538 B1	20161012	EP20100161050	20080421
	ES2593824 T3	20161213	ES20100161053T	20080421
	ES2602799 T3	20170222	ES20100161050T	20080421
	PL2208449 T3	20170228	PL20100161053T	20080421

Probable Assignee: NESTEC SA

Assignee(s):(std): NESTEC SA

Assignee(s): NESTEC S A

Inventor(s):(std): DENISART JEAN PAUL ; RYSER ANTOINE ; YOAKIM ALFRED

Agent(s): BORNE PATRICE DANIEL; ISERN JORGE

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

International class A47J31/06 A47J31/22 (Advanced/Invention);
(IPC 8-9): A47J31/00 A47J31/06 (Core/Invention)

CPC: A47J31/22 B65D85/8043 A47J31/407

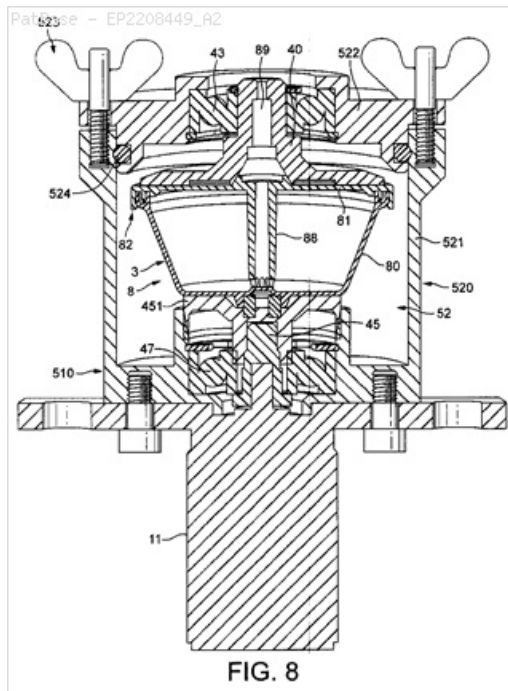
European class: A47J31/22 B65D85/804B

[Classification Explorer](#)

Cited documents: WO06112691 A1, WO06112691, US5566605 A, US5566605 A, GB2253336 A1, GB2253336 A1, FR2726988 A1, FR2726988, FR2686007 A1, FR2686007, FR2685186 A1, FR2685186 A1, FR2624364 A1, FR2624364, FR2513106 A1, FR2513106, FR2487661 A1, FR2487661, FR2132310 A1, FR2132310, EP0749713 A1, EP0749713, EP0651963 A1, EP0651963, EP0367600 B1, EP0367600 B1, EP0367600 A1, DE4439252 A1, DE4439252, DE4240429 A1, DE4240429, DE3529053 A1, DE3529053, DE102005007852 A1, DE102005007852 A1, BE894031 A1, BE894031 A, BE894031 A,

Abstract:

The invention relates to a capsule for preparing a beverage or liquid food from a substance, in a centrifugal brewing unit, by passing water through the substance contained in the capsule by using brewing centrifugal forces comprising: an enclosure containing a predetermined dose of substance, opening means which opens under the centrifugal effect to allow the brewed liquid to leave the capsule. The capsule may also comprises means for engaging the capsule to external rotational driving means of a centrifugal brewing device wherein the engaging means are configured to offer a resistance to torque during rotation of the capsule for maintaining the capsule in a reference rotational position.



8) Family number: 34331176 (US2010005641A)

© PatBase

Title: HINGED CLOSURE

Priority: US20050717466P 20050915 EP20060793572 20060915 US20060992055 20060915
WO2006EP66429 20060915

Family:

Publication number	Publication date	Application number	Application date
AT539975 E	20120115	AT20060793572T	20060915
AU2006290681 AA	20070322	AU20060290681	20060915
AU2006290681 BB	20120308	AU20060290681	20060915
BRPI0616044 A2	20110607	BR2006PI16044	20060915
BRPI0616044 B1	20180227	BR2006PI16044	20060915
CA2622081 AA	20080310	CA20062622081	20060915
CA2622081 C	20140708	CA20062622081	20060915
CN101258079 A	20080903	CN200680032386	20060915
CN101258079 B	20101124	CN200680032386	20060915
DE602006026858 D1	20120308	DE200660026858T	20060915
EA013280 B1	20100430	EA20080000802	20060915
EA2008000802 A1	20080630	EA20080000802	20060915
EP1940693 A1	20080709	EP20060793572	20060915
EP1940693 B1	20120104	EP20060793572	20060915
ES2377986 T3	20120403	ES20060793572T	20060915
HK1121721 A1	20090430	HK20080110567	20080923
HK1121721 A3	20090430	HK20080110567	20080923
IN01860CN2008 A	20090123	IN2008CN01860	20080415
JP2009507732 T2	20090226	JP20080530546T	20060915
KR20080046272 A	20080526	KR20087009031	20060915
US2010005641 AA	20100114	US20060992055	20060915
US8794460 BB	20140805	US20060992055	20060915
WO07031585 A1	20070322	WO2006EP66429	20060915
ZA200802281 A	20090429	ZA20080002281	20080310

Probable Assignee: CREANOVA UNIVERSAL CLOSURES LTD

Assignee(s):(std): CREANOVA UNIVERSAL CLOSURES LT ; CREANOVA UNIVERSAL CLOSURES LTD ; CREANOVA UNIVERSAL CLOSURES ; LAGLER LOUIS ; DRUITT RODNEY

Assignee(s): CREANOVA UNIVERSAL CLOSURES LIMITED ; CREANOVA UNIVERSAL CLOSURES LTD5 SHANNON POINTOAKFIELD CLOSETWOKESBURY BUSINESS PARKGL20 8PFTWOKESBURYGB

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

Inventor(s): DRUITT RODNEYGB ; LAGLER LOUISCH

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; MUELLER HOFFMANN AND PARTNER PATENTANWALTE MBB; RENTSCH AND PARTNER; RENTSCH PARTNER AG; CHINA PATENT AGENT HK LTD; PAULEY PETERSEN AND ERICKSON

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

International class B23P19/00 B65D B65D1/02 B65D39/00 B65D41/00 B65D41/06 B65D47/08 B65D47/14
(IPC 8-9): B65D50/06 (Advanced/Invention);
B65D47/08 B65D50/06 (Advanced/Non-invention);
B23P19/00 B65D1/02 B65D39/00 B65D41/04 B65D47/08 B65D47/12 B65D50/00 (Core/Invention);

B65D (Subclass/Invention)

International class
(IPC 1-7): B65D50/06

CPC: B65D47/0809 B65D50/061 B65D55/16 Y10T29/49821

European class: B65D47/08B1 B65D50/06B B65D55/16

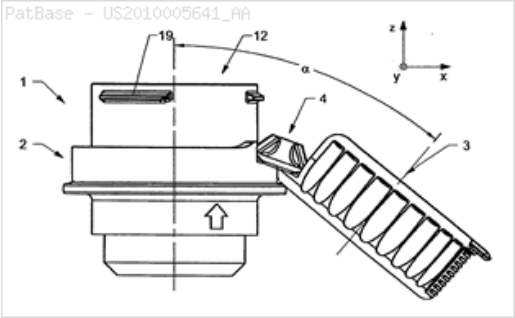
US class: 215/235 215/237 215/306 215/330 215/43 215/43S 220/298 220/345.1 220/345.2 220/375 222/544 29/426.4 29/426.400P

[Classification Explorer](#)

Cited documents: WO9733800 A1, WO05007526 A1, US7510095 BB, US7051888 BB, US6926162 BA, US6481588 BA, US6170683 BA, US6170683 B1, US6041477 A, US5984123 A, US5938054 A, US5794308 A, US5605240 A, US5593054 A, US5529201 A, US5335802 A, US5148912 A, US5067624 A, US4919286 A, US4567992 A, US4071156 A, US4043475 A, US2011297682 AA, US2009236304 AA, US2008296251 AA, US2007284431 AA, US2007284331 AA, US2006163188 AA, US2004256347 AA, US2003192892 AA, US2002079282 AA, US2002014467 AA, JP62251353 A2, JP60204466 A2, JP2102368 U1, JP2102368 A2, JP2007505008 T2, JP2005206187 A2, JP2003312699 A2, JP2002370755 A2, JP11192123 A2, GB2189475 A1, EP1618809 A1, EP1147054 A1, EP0836576 B1, EP0719512 A1, EP0107432 A2, CN1334773 A,

Forward Citations: WO17013226, WO09101117, USD775950, US9932158, US9415909, US9376243, US2018332892, US2016118264, US2015375908, US2014231376, US2014103005, US2011000137, US10532858, US10442591, US10358269, US10273060, US10272599, US10266311, TWI418495, RU2710762, JP5670089, JP2011219112, EP3305680, EP3305680, EA020253, CN109311567, CN107848675, AU2009214125,

Abstract:
The invention is directed to a hinged closure (1) preferably molded in a closed position. The closure has a base (2) and a lid (3) interconnected to the base by a hinge arrangement (4). A latching mechanism (15) holds the closure (1) in position with respect to a neck (12) and prevents unwanted opening.



9) Family number: 51299182 (US2010239734A) © PatBase

Title: METHOD FOR PREPARING A BEVERAGE OR FOOD LIQUID AND SYSTEM USING BREWING CENTRIFUGAL FORCE

Priority: EP20070109579 20070605 EP20070109580 20070605 EP20080102147 20080229
EP20080102148 20080229 EP20080102149 20080229 WO2008EP54401 20080411
WO2008EP54810 20080421 WO2008EP56310 20080522 WO2008EP56345 20080523
WO2008EP56412 20080526 WO2008EP56968 20080605 EP20090168885 20090828
US20090602542 20091201 US20090602553 20091201 US20090602562 20091201
US20090602568 20091201 US20090602577 20091201 US20090602730 20091202
EP20100160249 20100419 US20100776155 20100507

Family:

Publication number	Publication date	Application number	Application date
US2010239734 AA	20100923	US20100776155	20100507
US8431175 BB	20130430	US20100776155	20100507

Probable Assignee: DES PRODUITS NESTLE SA SOC

Assignee(s):(std): NESTEC SA ; PERENTES ALEXANDRE ; RYSER ANTOINE ; YOAKIM ALFRED ; DENISART JEAN PAUL

Assignee(s): DES PRODUITS NESTLE SA SOC ; NESTEC S A

Inventor(s):(std): DENISART JEAN PAUL ; RYSER ANTOINE ; YOAKIM ALFRED ; PERENTES ALEXANDRE

Agent(s): WINSTON AND STRAWN LLP,PATENT DEPARTMENT; WINSTON AND STRAWN LLP PATENT DEPARTMENT; WINSTON AND STRAWN LLP

International class
(IPC 8-9): A23F5/00 A23F5/26 A47J31/00 A47J31/44 (Advanced/Invention);
A23F5/24 A47J31/00 A47J31/44 (Core/Invention)

CPC: A47J31/22 B65D85/8043 A47J31/407

European class: A47J31/22

US class: 426/431 426/431S 426/432 426/433 426/433P 99/295 99/295S 99/302.00CS 99/302C

[Classification Explorer](#)

Cited documents: WO9402059 A1, WO10041179 A2, WO10038213 A2, WO10026053 A1, WO10026045 A1, WO09133134 A1, WO09106598 A1, WO09106175 A1, WO09050540 A1, WO08148834, WO08148656, WO08148650, WO08148646, WO08148604, WO08148601 A1, WO08087099 A2, WO07110768 A2, WO07085921 A2, WO07041954, WO07014584 A1, WO06112691, WO06082064 A1, WO05066040 A2, WO04030500 A1, WO0235977 A1, US8151694 BB, US7770512 BB, US7469627 BB, US7216582 BB, US7017775 BB, US6786134 BB, US6777007 BB, US6607762 BB, US6007853 A, US5948455 A, US5773067 A, US5755149 A, US5649472 A, US5637335 A, US5566605 A, US5325765 A, US5300308 A, US5265517 A, US5047252 A, US4962693 A, US4859337 A, US4846052 A, US4806375 A, US4584101 A, US4545296 A, US4473002 A, US4464982 A, US4426919 A, US3985069 A, US3967546 A, US3822013 A, US3812773 A, US3654852 A, US3566770 A, US3233535 A, US3025781 A, US2778739 A, US239659 A, US2011244099 AA, US2011217421 AA, US2011189363 AA, US2011189362 AA, US2011052761 AA, US2011041702 AA, US2010203208 AA, US2010203198 AA, US2010186599 AA, US2010178404 AA, US2010178392 AA, US2010176004 AA, US2010173056 AA, US2010064899 AA, US2009155422 AA, US2009136639 AA, US2009032454 AA, US2007079708 AA, US2006236871 AA, US2006110507 AA, US2005150390 AA, US2003145736 AA, US1963476 A, JPS62254719, JPS5016225, JP6339431, JP63034581 U1, JP62254719 A2, JP50016225 A2, JP3034606, JP2189114, JP2124111, JP2006515764 T2, JP200618226, JP2005525146 T2, JP2005516602, JP2005199071, JP2004517654 T2, JP2003144973, JP2002215414 A2, JP2002189115

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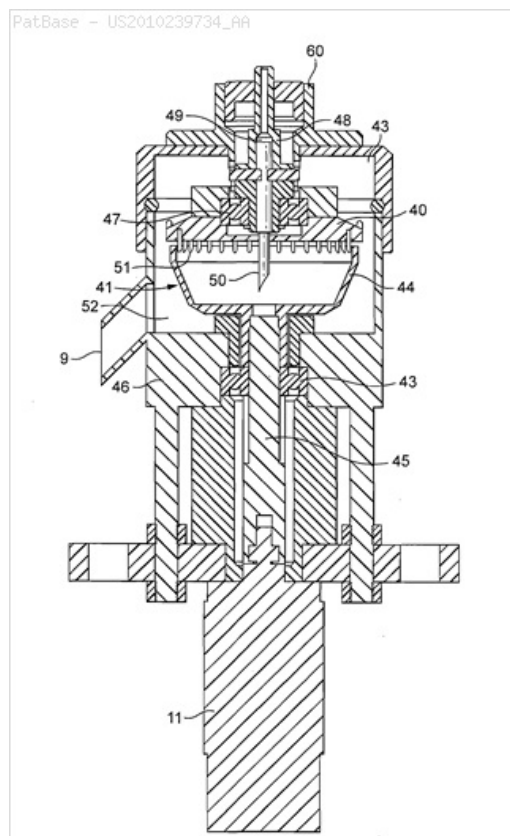
BE894031 A, AT197553 B,

Forward Citations:

WO16078866, WO15124218, WO14090965, WO14082976, WO14082975, WO13160825, WO13154663, WO13000265, WO11095518, USD764270, USD757536, USD708057, USD697797, US9999315, US9980595, US9968217, US9968111, US9932168, US9913557, US9877495, US9833104, US9820606, US9808113, US9788681, US9783361, US9743799, US9731892, US9718606, US9700171, US9694969, US9668604, US9603479, US9561901, US9504348, US9462910, US9439532, US9434532, US9345360, US9307860, US9277837, US9271598, US9226611, US9162815, US9095236, US8986764, US8919242, US8813634, US8658232, US8573115, US8541042, US8535748, US8524306, US8512784, US8414953, US8409646, US8114459, US8114458, US8114457, US8043645, US2017233178, US2017020328, US2016335833, US2016174759, US2015336736, US2015327718, US2015272376, US2015265091, US2015257586, US2015257584, US2015250351, US2015216350, US2015191303, US2015158665, US2015144001, US2015140184, US2015140182, US2014356484, US2014335232, US2014328983, US2014318379, US2014290495, US2014083301, US2014007776, US2013333574, US2013309371, US2013206014, US2013142931, US2012285330, US2012121779, US2011308399, US2011217421, US2011189362, US2011183897, US2011052761, US2011041702, US2010203208, US2010203198, US2010186599, US2010178404, US2010178392, US2010173056, US10542839, US10485374, US10472165, US10442610, US10354479, US10343838, US10342377, US10314319, US10285536, US10285533, US10154751, US10154675, US10144579, US10143214, US10123551, US10118757, US10080460, US10080459, US10070751, US10045654, US10034570, US10004354, US10004353, US10004248, US09999315, RU2660000, RU2647611, RU2615438, GB2549701, ES2472341, EP3203881, EP2974632, EP2974632, EP2931088, EP2925639, EP2907426, EP2907426, EP2651778, EP2651778, EP2533672, CN107000927, CN106132253, CN106132253, CN105792711, CN104754993, CN103946870, CN102858210, CN102858210, CH708663, AU2015274023, AU2013336834, AU2013283164, AU2012338950,

Abstract:

A capsule, device, system and method for preparing a liquid food or beverage. The capsule comprises an enclosure containing one or more extractable or infusible ingredients and configured and dimensioned to have a perimeter and be radially symmetrical about a central axis to facilitate rotation; and an opening arrangement that allows liquid food to leave the capsule after passing through the ingredient(s), wherein the opening arrangement is configured and positioned near or upon the perimeter of the enclosure to allow the liquid food to leave the capsule radially due to the application of the centrifugal forces. The method and device introduce liquid into the capsule to form the liquid food while applying centrifugal forces to the capsule to urge the liquid to pass through the ingredient(s).



10) Family number: 43607195 (WO09098347A2)

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Title: CAPSULE FOR BOTTLE STOPPER CAPSULE POUR FERMETURE DE BOUTEILLES CAPSULA PARA UN
Priority: ES20080000349 20080208 EP20080381026 20080730 EP20090709254 20090206
WO2009ES70018 20090206

Family:	Publication number	Publication date	Application number	Application date
	BRPI0905909 A2	20150630	BR2009PI05909	20090206
	BRPI0905909 B1	20181121	BR2009PI05909	20090206
	CO6290737 A2	20110620	CO20100110907	20100908

DE602008024252 D1	20130627	DE200860024252T	20080730
DE602009014170 D1	20130516	DE200960014170T	20090206
DOP2010000245 A	20101130	DO20100000245	20100806
EP2088091 A2	20090812	EP20080381026	20080730
EP2088091 A3	20091021	EP20080381026	20080730
EP2088091 B1	20130501	EP20080381026	20080730
EP2256057 A2	20101201	EP20090709254	20090206
EP2256057 B1	20130320	EP20090709254	20090206
ES2333569 AA	20100223	ES20080000349	20080208
ES2333569 BA	20110111	ES20080000349	20080208
ES2415175 T3	20130724	ES20090709254T	20090206
ES2424020 T3	20130926	ES20080381026T	20080730
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IN318074 B	20190816	IN2010KN02866	20100805
MX2010008708 A1	20101130	MX20100008708	20090206
PH2013501522 A	20150126	PH20130501522	20130717
RU2010137268 A	20120320	RU20100137268	20090206
RU2478070 C2	20130327	RU20100137268	20090206
WO09098347 A2	20090813	WO2009ES70018	20090206
WO09098347 A3	20091105	WO2009ES70018	20090206

Probable Assignee: TAPONES IRRELLENABLES

Assignee(s):(std): CIA DE TAPONES IRRELLENABLES S A ; COMPANIA DE TAPONES IRRELLENABLES S A ; TAPONES IRRELLENABLES ; TORRENT ORTEGA DAVID ; KOMPANIJA DE TAPONES IRREL ENABLES S A

Assignee(s): KOMPANIJA DE TAPONES IRREL ENABLES SA ; CIA DE TAPONES IRRELLENABLES SA ; COMPAA IA DE TA PONES IRRELLENABLES S A ; COMPAIA DE TAPONES IRRELLENABLES S A ; COMPANIA DE TAPONES IRRELLENABLES SA

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

Agent(s): MARTIN SANTOS VICTORIA SOFIA; ABG PATENTES SL; ABG PATENTES S L; ARIAS JUAN

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

International class (IPC 8-9): B65D41/62 B65D47/10 B65D49/04 B65D50/00 B65D51/18 (Advanced/Invention); B65D41/00 B65D49/00 B65D51/18 (Core/Invention)

International class (IPC 1-7): B65D41/62 B65D49/04 B65D51/18

CPC: B65D41/62 B65D49/04 B65D51/18 B65D2101/0038 B65D2251/0015 B65D2251/0056 B65D2251/009 B65D47/10 B65D50/00 B65D41/3461 B65D55/0863

European class: B65D41/62 B65D47/10 B65D49/04 B65D50/00 B65D51/18 L65D101/00A3C L65D251/00Y2D L65D251/00Y4J L65D251/00Y6K

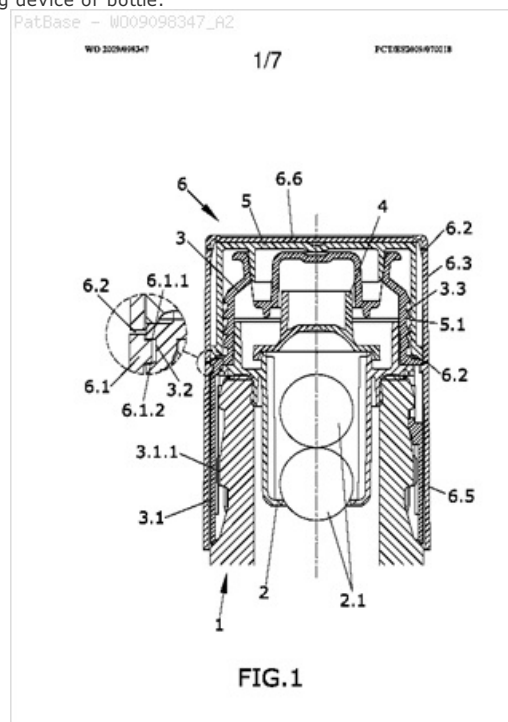
[Classification Explorer](#)

Cited documents: WO9921773 A1, WO05000701 A1, WO02096771 A1, WO0007898 A1, GB2285623 A1, ES2188350 AA, EP1698563 A1, EP1550616 A1, EP0574644 A1, EP0537530 A1, EP0224649 A1,

Forward Citations: DE102014011539, DE102014011539, CN105346835, CN105346835,

Abstract:

The invention in question relates to a capsule for a bottle stopper that can be torn off. The configuration of the capsule according to the invention offers a large surface for advertising. The capsule is configured in two parts such that, once the top section has been torn off, the lower part stays in position. This capsule also acts as a tamperproof seal that easily shows if the bottle lid has been opened or not. The configuration of the capsule is based on two essentially parallel lines of weakness that define a lateral tear strip positioned on the means connecting the capsule and the pouring device or bottle.



Title: ANTIMICROBIAL AND BIOLOGICAL ACTIVE POLYMER COMPOSITES AND RELATED METHODS, MATERIALS AND DEVICES

Priority: US20140047655P 20140909 US20150509834 20150909 WO2015US49255 20150909

Family:

Publication number	Publication date	Application number	Application date
AU2015315108 AA	20180201	AU20150315108	20150909
CA2978065 AA	20170426	CA20152978065	20150909
EP3190881 A1	20170719	EP20150840677	20150909
EP3190881 A4	20180620	EP20150840677	20150909
IN201717012713 A	20170721	IN201717012713	20170408
US2017304815 AA	20171026	US20150509834	20150909
WO16040529 A1	20160317	WO2015US49255	20150909

Probable Assignee: IASIS MOLECULAR SCIENCES

Assignee(s):(std): NORDAL SCOTT ; NORDAL SCOTT FRITHJOF ; WALTERS DANA CHRISTOPHER ; VACHON DAVID JOHN ; VACHON DAVID J ; WALTERS DANA ; VACHON DAVID ; IASIS MOLECULAR SCIENCES

Assignee(s): IASIS MOLECULAR SCIENCES INC

Inventor(s):(std): NORDAL SCOTT FRITHJOF ; WALTERS DANA CHRISTOPHER ; VACHON DAVID JOHN ; VACHON DAVID J

Agent(s): DAVIES COLLISON CAVE PTY LTD; GOWLING WLG CANADA LLP; KELLY DONAL MORGAN; KING JEFFREY J

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

International class (IPC 8-9): A01N25/08 A01N25/10 A01N25/16 A01N33/12 A01N41/04 A01N41/12 A01N43/40 A01N59/00 A01N59/16 A01P1/00 A61H19/00 A61K31/14 A61K31/155 A61K31/616 A61K33/38 A61K47/30 A61K47/58 A61L15/24 A61L15/44 A61L15/46 A61L15/58 A61L26/00 A61L27/18 A61L27/54 A61L29/08 A61L29/16 A61L31/16 B01J39/19 B01J39/20 B01J41/14 B01J45/00 B65D65/40 B65D65/42 C08J3/12 C08J9/36 C08L23/12 C08L57/06 C08L63/00 C08L75/04 C08L83/04 C09D201/00 C09D5/14 C09D5/16 C09D7/65 C09J11/08 C09J183/04 C09J9/00 G01N33/18 G01N33/24 (Advanced/Invention)

CPC: A61L15/46 A61L31/16 A61L2300/102 A61L2300/402 A61L2300/406 A61L2300/41 A61L2300/416 A61L2300/43 B01J45/00 G01N33/24 A01N25/16 A01N33/12 A01N41/04 A01N41/12 A01N43/40 A01N59/00 A01N59/16 A61H19/44 A61K31/14 A61K31/155 A61K31/616 A61K47/585 G01N33/18 C09J183/04 C09J11/08 C09J9/00 C09D201/00 C09D5/1637 C09D5/14 C08L83/04 C08L75/04 C08L63/00 C08L57/06 C08L23/12 C08J9/365 C08J3/12 B65D65/42 B65D65/40 B01J39/20 A61L29/085 A61L27/18 A61L26/0085 A61L26/0066 A61L15/58 A61L15/44 A61L15/24 A61K33/38 A61L2300/104 A61L2300/11 C08J2205/05 G01N2033/245 C08J2325/08 C08J2375/04 C08J2425/02 C08J2425/08 A61L2300/606 C08J2325/02 A01N25/10 A61L27/54 A61L29/16 A61L2300/206 A61L2300/208 A61L2300/404 B01J39/19 B01J41/14

US class: 1/1 424/78.09

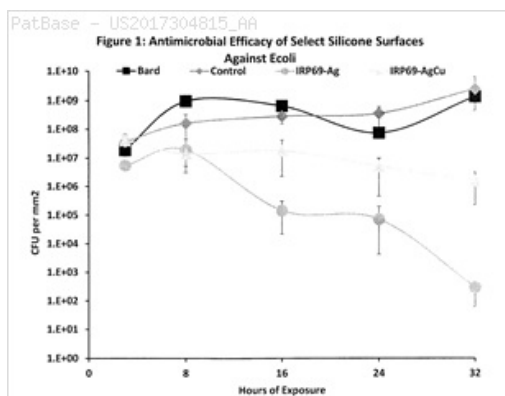
[Classification Explorer](#)

Cited documents: WO14100778 A1, US6793875 BA, US5143710 A, US3819560 A, US3645922 A, US2013004586 AA, US2011129646 AA, US2011077144 AA, US2008299220 AA, US2007001037 AA, US2006079421 AA, US2005080157 AA, EP2704239 A1, EP2565256 A1,

Forward Citations: US10458438, US10093811, DE102018115107, CN109851844,

Abstract:

Biologically activated ion-exchange polymer salts are made by exchanging biologically active ionic agents onto ion-exchange polymers. The activated polymers are uniquely surface active and stable to thermal degradation and chemical and other forms of decomposition. The activated ion-exchange polymer salts may be processed and combined with polymer precursors using novel methods and materials to produce stable, biologically activated polymer composites, including antimicrobial and antifouling polymer composites.



Title: CHILD-SAFE CLOSURE DEVICE WITH SCREW AND COLLAR FOR REVEALING FIRST OPENING

Priority: FR20070004668 20070628 EP20080760476 20080604 WO2008EP56894 20080604

Family:

Publication number	Publication date	Application number	Application date
AT520602 E	20110915	AT20080760476T	20080604
DE602008008961 D1	20111027	DE200860008961T	20080604

EP2170719 A1	20100407	EP20080760476	20080604
EP2170719 B1	20110817	EP20080760476	20080604
FR2918041 A1	20090102	FR20070004668	20070628
FR2918041 B1	20090925	FR20070004668	20070628
US2010206877 AA	20100819	US20080666514	20080604
US8302792 BB	20121106	US20080666514	20080604
WO09000616 A1	20081231	WO2008EP56894	20080604

Probable Assignee: CLARIANT PRODUCTION FRANCE SAS

Assignee(s):(std): AIRSEC S A S ; AIRSEC SAS ; AIRSEC SOC PAR ACTIONS SIMPLIF ; SEBILLE VINCENT ; LOGEL VALERE

Assignee(s): CLARIANT PRODUCTION FRANCE SAS ; TCG SENIOR FUNDING LLC ADMINISTRATIVE AGENT AS ; AIRSEC SOCIETE PAR ACTIONS SIMPLIFIEE ; AIRSEC

Inventor(s):(std): SEBILLE VINCENT ; LOGEL VALERE

Inventor(s): VALERE LOGEL ; VINCENT SEBILLE

Agent(s): HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; CABINET PLASSERAUD; PLASSERAUD IP; SCOTT R COX LYNCH COX GILMAN AND MAHAN PSC; SCOTT R; HOFFMANN EITLE ET AL

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

International class (IPC 8-9): B65D41/04 B65D41/34 B65D43/04 B65D50/00 B65D50/04 B65D51/30 B65D55/12 (Advanced/Invention); B65D41/04 B65D41/34 B65D43/02 B65D50/00 B65D51/24 (Core/Invention)

CPC: B65D41/3409 B65D50/046 B65D51/30

European class: B65D41/34A1 B65D50/04F2 B65D51/30

US class: 215/216 215/217 215/220 215/256 220/288 220/801 220/801S

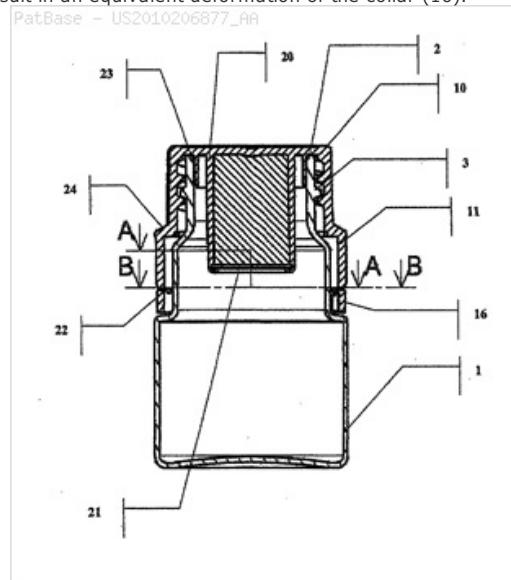
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Cited documents: WO9850283 A1, WO9722534 A1, WO9101924 A1, USD327644 S1, US7621413 BB, US6227391 BA, US6015054 A, US5927527 A, US5836465 A, US5803287 A, US5769254 A, US5638969 A, US5577624 A, US5533633 A, US5454476 A, US5411157 A, US5219084 A, US5213225 A, US5040692 A, US4834234 A, US4756435 A, US4662530 A, US4605135 A, US4567991 A, US4494665 A, US4452363 A, US4413743 A, US4376497 A, US4134513 A, US4117945 A, US3984021 A, US3941268 A, US3917097 A, US3894647 A, US3831797 A, US2423582 A, US2010288765 AA, US2007114140 AA, US2004045923 AA, FR2916741 A1, FR2339539 A1, EP1002737 A1, EP0763477 A1, EP0111419 A1,

Forward Citations: US9926115, US2016167847, GB2513730,

Abstract:

The invention relates to a child-safe closure device for a container (1), consisting of: i) a stopper having a base and a cylindrical side wall, the inside face of which has a screwthread and a first series of teeth (13), and ii) a collar (16) for revealing the first opening, said collar (16) being connected to said side wall and being equipped with a second series of teeth (17), these two series of teeth engaging with corresponding series of teeth (4,7) positioned on the base of the neck (2) of the container (1), which is characterized in that: a) the cylindrical side wall of the stopper is made up of two zones, one rigid (10), and the other, or skirt (11), being flexible and deformable, b) the collar (16) for revealing the first opening is attached to the skirt (11) by frangible bridges (22), in such a way that deformation of the skirt (11) does not result in an equivalent deformation of the collar (16).



13) Family number: 33366293 (US2008067142A)

© PatBase

Title: SEALING MEANS FOR A CLOSURE, CLOSURE AND PROCESS

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

Family:

Publication number	Publication date	Application number	Application date
AT384672 E	20080215	AT20050792201T	20050901

AT405498 E	20080915	AT20050857768T	20050802
AT416992 E	20081215	AT20050747178T	20050408
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AU2005279311 AA	20060309	AU20050279311	20050408
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AU2005331483 AA	20061109	AU20050331483	20050802
AU2005331483 BB	20120216	AU20050331483	20050802
BRPI0514822 A	20080624	BR2005PI14822	20050802
BRPI0514822 B1	20171017	BR2005PI14822	20050802
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EP1789336 B1	20080820	EP20050857768	20050802
EP1799573 A1	20070627	EP20050747178	20050408
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EP1879807 A2	20080123	EP20050731954	20050407
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PT1789336 T	20081128	PT20050857768T	20050802
PT1799573 T	20090318	PT20050747178T	20050408
PT1799574 T	20080422	PT20050792201T	20050901
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TH41104 B	20140814	TH20061000861	20060228
TH44406 B	20150527	TH20061000862	20060228
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TH83086 A	20070215	TH20061000862	20060228

UA87870 C2	20090825	UA20070003322	20050802
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WO06117024 A1	20061109	WO2005EP53777	20050802
ZA200702221 A	20080925	ZA20070002221	20070316

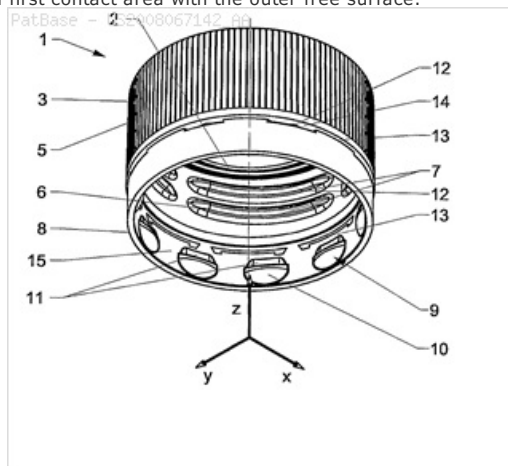
Probable Assignee:	CREANOVA UNIVERSAL CLOSURES LTD
Assignee(s):(std):	CREANOVA UNIVERSAL CLOSURES CO LTD ; CREANOVA UNIVERSAL CLOSURES LT ; DRUITT RODNEY ; LAGLER LOUIS ; DRUITT ROD ; DRUITT RODNEY M ; CREANOVA UNIVERSAL CLOSURES LTD ; CREANOVA UNIVERSAL CLOSURE LTD ; CREANOVA UNIVERSAL CLOSURES
Assignee(s):	CREANOVA UNIVERSAL CLOSURES CO
Inventor(s):(std):	DRUITT RODNEY ; LAGLER LOUIS ; DRUITT ROD ; RODNEY DRUITT ; LOUIS DRUITT RODNEY LAGLER ; DRUITT RODNEY M ; ROD DRUITT ; LOUIS LAGLER
Inventor(s):	DRUITT RODNEY LAGLER LOUIS
Agent(s):	DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP; RENTSCH AND PARTNER; CHINAHK INTELLECTUAL PROPERTY SERVICES CO LTD; REINHOLD COHN AND PARTNERS; OSTROLENK FABER GERB AND SOFFEN; OSTROLENK FABER LLP
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
International class (IPC 8-9):	B29C45/14 B65B7/28 B65D B65D39/08 B65D41/00 B65D41/04 B65D41/14 B65D41/32 B65D41/34 B65D41/38 B65D43/16 B65D47/08 B65D47/10 B65D47/36 B65D51/18 B65D53/00 B65D53/02 B65D53/04 B65D55/02 (Advanced/Invention); B65D41/04 B65D41/34 (Advanced/Non-invention); B29C45/14 B65B7/28 B65D41/00 B65D41/04 B65D41/32 B65D41/34 B65D47/00 B65D47/06 B65D47/08 B65D51/18 B65D53/00 (Core/Invention); B65D (Subclass/Invention)
International class (IPC 1-7):	B65D41/04
CPC:	B65D41/045 B65D41/3447 B65D41/04 B65D41/0428 B65D47/0809 B65D2101/0023 B65D2215/02 B65D2251/1016 B65D2251/1066 B65D47/243 B65D2251/105
European class:	B65D41/04 B65D41/04B2 B65D41/04D2 B65D41/34D1 B65D47/08B1 B65D47/24A2 L65D101/00A3 L65D215/02 L65D251/10D L65D251/10D4 L65D251/10F
US class:	215/235 215/235S 215/237 215/252 215/253 215/253S 215/254 215/254S 215/324 215/329 215/329S 215/341 215/341S 215/343 215/344 215/345 215/354 215/354 220/259.1 220/259.100S 220/326 220/835 222/153.06 222/153.060S 222/541.5 222/541.500S 222/556 264/250 264/263 493/114 493/84 53/490 53/490P

[Classification Explorer](#)

Cited documents:	WO9903747 A1, WO9903746 A1, WO9738912 A2, WO8912584 A1, WO8500153 A1, WO06097151 A2, WO03086891 A1, WO03026981 A1, WO03022701 A1, WO03011699 A1, WO0232775 A1, WO02060776 A1, WO0146032 A2, WO0056616 A1, WO0056615 A1, WO0044639 A1, US7651004 BB, US7575121 BB, US7503468 BB, US7264131 BB, US7014055 BB, US6783015 BA, US6779672 BB, US6769575 BA, US6695161 BB, US6679395 BA, US6634060 BA, US6581793 BA, US6550626 BA, US6405885 BA, US6347716 BA, US6338414 BA, US6325226 BA, US6296986 BA, US6260721 BA, US6234334 BA, US6126027 A, US6041477 A, US6021912 A, US5984124 A, US5913436 A, US5875907 A, US5853093 A, US5803286 A, US5794308 A, US5782369 A, US5769255 A, US5735419 A, US5725116 A, US5678718 A, US5634060 A, US5603436 A, US5573128 A, US5535802 A, US5478337 A, US5447674 A, US5423444 A, US5421470 A, US5386918 A, US5305900 A, US5297688 A, US5297622 A, US5148912 A, US4913493 A, US4907709 A, US4899897 A, US4838441 A, US4721221 A, US4667838 A, US4646926 A, US4638917 A, US4598835 A, US4592476 A, US4566603 A, US4560077 A, US4546892 A, US4519514 A, US4489845 A, US4489844 A, US4442947 A, US4386712 A, US4322012 A, US4143785 A, US4033472 A, US3463340 A, US3441161 A, US3360149 A, US2009159555 AA, US2006255003 AA, US2005140053 AA, US2004238478 AA, US2004188374 AA, US2004069806 AA, US2004069739 AA, US2004060893 AA, US2003062369 AA, US2003034323 AA, US2002158037 AA, US2001032827 AA, US2001027957 AA, US1993, US1984, US1982, NZ502482 A, JP8324610 A2, JP63057250 A2, JP58073551 A2, JP51132356 A2, JP2002145312 A2, JP2001328653 A2, JP2000109105 A2, JP2000079954 A2, JP11180457, JP10147359, JP10035699 A2, GB788148 A, FR2828172 A1, FR2802182 A1, FR2715381 A1, EP2005051559, EP1996, EP1992, EP1985, EP1984, EP1982, EP1600394 A1, EP1582475 A1, EP1075432 A1, EP0987190 A1, EP0931728 A1, EP0836576 A1, EP0770559 A1, EP0746512 A1, EP0685406 A1, EP0621199 A1, EP0532471 A1, EP0529383 A2, EP0515348 A1, EP0309369 A1, EP0176205 A2, EP0151242 A2, EP0114127 A2, EP0093690 A1, EP0076778 A1, DE3842443 A1, DE3139526 A1, CN2438673 Y, CN1221386 A, CN1071135 A, CN1027532 C, CH410655 A, CH410655, AU1545676 A1, AU1545676, AU1418083 A1, AU1418083,
Forward Citations:	WO19048356, WO18174975, WO18059909, WO15128091, WO14193211, WO13129940, WO13007826, WO12095501, WO09053693, WO08068416, WO08068416, USD872577, USD871905, USD869275, USD869274, USD859154, USD859153, USD840684, USD834935, USD778160, USD775950, USD756776, USD756234, USD755251, USD741713, USD634200, USD634199, USD633386, US9902530, US9828146, US9758281, US9533803, US9511906, US9439523, US9428292, US9415909, US9382045, US9169048, US9096359, US9090386, US8763830, US8672158, US8646634, US8596493, US8403159, US8292101, US8276777, US8231020, US7861873, US2018251270, US2018162606, US2017210503, US2016280428, US2016145032, US2015251820, US2015108167, US2015034644, US2014346172, US2014312038, US2013248479, US2013082056, US2013043206, US2012091134, US2011006031, US2011000137, US2010170910, US2008110933, US10532858, US10407221, US10370161, US10357433, US10335815, US10322856, US10266311, US10155609, US10138035, US10046890, US10035627, KR101660932, KR101594711, JP2016530168, JP2008308181, GB2467057, GB2467057, EP3110714, EP2819927, EP1985549, DE102014204831, CN106217732, CN106217732, CN105059708, CN105008236, CN105008236, CN103596850, CN103596850, CN103402884, CN103342190, CN103342190, CN103342189, CN103342189, CN103318519, CN103298705, CN103298705, CN103287231, CN102923379, CN102514806, AU2012206593,

Abstract:

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

**14) Family number: 54512387** (US2013199378A)

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Title: METHOD FOR PREPARING A BEVERAGE OR FOOD LIQUID AND SYSTEM USING BREWING CENTRIFUGAL FORCE

Priority: EP20070109579 20070605 EP20070109580 20070605 EP20080102147 20080229
EP20080102148 20080229 EP20080102149 20080229 WO2008EP54401 20080411
WO2008EP54810 20080421 WO2008EP56310 20080522 WO2008EP56345 20080523
WO2008EP56412 20080526 WO2008EP56968 20080605 EP20090168885 20090828
US20090602542 20091201 US20090602553 20091201 US20090602562 20091201
US20090602568 20091201 US20090602577 20091201 US20090602730 20091202
EP20100160249 20100419 US20100776155 20100507 US20130833912 20130315

Family:	Publication number	Publication date	Application number	Application date
	US2013199378 AA	20130808	US20130833912	20130315
	US9434532 BB	20160906	US20130833912	20130315

Probable Assignee: DES PRODUITS NESTLE SA SOC

Assignee(s):(std): NESTEC SA

Assignee(s): DES PRODUITS NESTLE SA SOC

Inventor(s):(std): DENISART JEAN PAUL ; RYSER ANTOINE ; YOAKIM ALFRED ; PERENTES ALEXANDRE

Agent(s): WINSTON AND STRAWN LLP

International class A47J31/22 A47J31/40 B65D85/804 (Advanced/Invention)

(IPC 8-9):

CPC: A47J31/22 B65D85/8043 A47J31/407

US class: 1/1 426/115 99/283 99/295

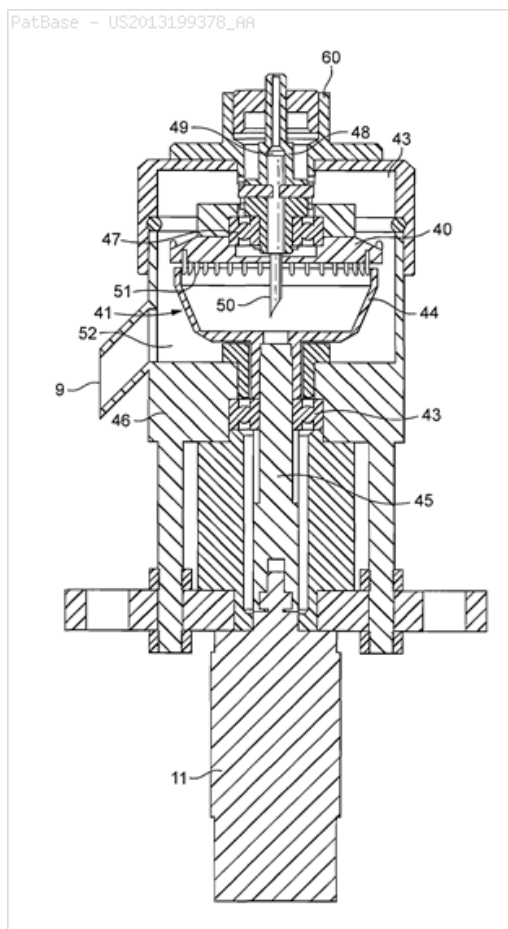
[Classification Explorer](#)

Cited documents: WOW042414, WO9402059, WO10041179, WO10038213, WO10026053, WO10026045, WO09133134, WO09106598, WO09106175, WO09050540, WO08148834, WO08148656, WO08148650, WO08148646, WO08148604, WO08148601, WO08087099, WO07110768, WO07085921, WO07041954, WO07014584, WO06112691, WO06082064, WO05066040, WO04030500, WO0235977, WO0217760, US8813634 BB, US8512784 BB, US8431175 BB, US8409646 BB, US8327754 BB, US8307754 BB, US8151694 BB, US7981451 BB, US7770512 BB, US7569243 BB, US7569242 BB, US7469627 BB, US7325479 BB, US7325478 BB, US7216582 BB, US7153530 BB, US7017775 BB, US6854378 BB, US6849285 BB, US6786134 BB, US6777007 BB, US6607762 BB, US6007853 A, US5948455 A, US5826492 A, US5773067 A, US5755149 A, US5656311 A, US5649472 A, US5637335 A, US5566605 A, US5343799 A, US5325765 A, US5300308 A, US5265517 A, US5047252 A, US4996066 A, US4962693 A, US4859337 A, US4846052 A, US4806375 A, US4584101 A, US4545296 A, US4473002 A, US4464982 A, US4426919 A, US4136202 A, US3985069 A, US3967546 A, US3822013 A, US3812773 A, US3654852 A, US3566770 A, US3269298 A, US3233535 A, US3025781 A, US2952202 A, US2899886 A, US2778739 A, US239659 A, US2012058226, US2011262601 AA, US2011244099 AA, US2011217421 AA, US2011189362 AA, US2011052761 AA, US2011041702 AA, US2010239734 AA, US2010203208 AA, US2010203198 AA, US2010186599 AA, US2010178404 AA, US2010178392 AA, US2010173056 AA, US2010108541 AA, US2010064899 AA, US2010024658 AA, US2009218877 AA, US2009155422 AA, US2009136639 AA, US2009050540 AA, US2009032454 AA, US2008187638 AA, US2008122286 AA, US2008038414 AA, US2008014860 AA, US2007289453 AA, US2007248734 AA, US2007079708 AA, US2006236871 AA, US2006196364 AA, US2006110507 AA, US2006003075 AA, US2005188854 AA, US2005150390 AA, US2004255790 AA, US2003189872 AA, US2003159593 AA, US2003145736 AA, US2003116029 AA, US1963476 A, TW200718383, JP6339431, JP63034581 Y2, JP62254719, JP6104091 B4, JP59082517, JP50016225, JP3034606 U, JP2189114, JP2124111, JP2008520298, JP2008508041, JP2006518226, JP2006515764, JP2005525146, JP2005516602, JP2005199071, JP2004517654, JP2003144973, JP2002215414, JP2002189115, JP2001061663, GB2416480, GB2253336, GB2227405, GB1506074, FR2726988, FR2686007, FR2685186, FR2624364, FR2617389, FR2535597, FR2531849, FR2513106, FR2487661, FR2132310, EP2155021, EP2000062, EP1813333, EP1774878, EP1654966, EP1299022, EP1208782, EP0806373, EP0749713, EP0651963, EP0607759, EP0521510, EP0521187, EP0512470, EP0367600, EP0250810, EP0242556, DE4439252, DE4240429, DE3719962, DE3529204, DE3529053, DE3241606, DE2151920, DE10355671, DE102005007852, CN1656983, CN101001555, CA2625215, BE894031 A1, AT197553 B,

Forward Citations: WO15102734, US9902556, US9808113, US9307860, US9125521, US9113747, US2017233178, US2017055761, US2016137402, US2015182063, US2015144001, US2015140184, US2014069280, US2013068108, US2012031279, US10485374, US10314320, US10314319, US10264912, US10118757,

Abstract:

A capsule, device, system and method for preparing a liquid food or beverage. The capsule comprises an enclosure containing one or more extractable or infusible ingredients and configured and dimensioned to have a perimeter and be radially symmetrical about a central axis to facilitate rotation; and an opening arrangement that allows liquid food to leave the capsule after passing through the ingredient(s), wherein the opening arrangement is configured and positioned near or upon the perimeter of the enclosure to allow the liquid food to leave the capsule radially due to the application of the centrifugal forces. The method and device introduce liquid into the capsule to form the liquid food while applying centrifugal forces to the capsule to urge the liquid to pass through the ingredient(s).

**15) Family number: 60956419** (WO15181761A1)

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Title: SECURE CONTAINER AND SECURING METHOD**Priority:** FR20140054848 20140528 WO20151B54002 20150528**Family:**

Publication number	Publication date	Application number	Application date
EP3148891 A1	20170405	EP20150731703	20150528
FR3021637 A1	20151204	FR20140054848	20140528
FR3021637 B1	20160722	FR20140054848	20140528
WO15181761 A1	20151203	WO20151B54002	20150528

Probable Assignee: ARJOWIGGINS SECURITY**Assignee(s):**(std): ARJO SOLUTIONS ; ARJOWIGGINS SECURITY ; ARJOWIGGINS SOLUTIONS**Inventor(s):**(std): MOURAO JEROME ; RANCIEN SANDRINE**Inventor(s):** JEROME MOURAO ; SANDRINE RANCIEN**Agent(s):** NONY; CABINET NONY; CABINET BEAU DE LOMENIE; TANTY FRANCOIS

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

International class B65D23/08 B65D55/02 B65D55/08 G09F3/03 (Advanced/Invention)

(IPC 8-9):

CPC: B65D23/0878 B65D2203/06[Classification Explorer](#)

Cited documents: WO9602434 A1, WO14023919 A1, US6254139 BA, GB2298391 A1, GB2273492 A1, FR2754375 A1, FR2696423 A1, FR2314107 A1, FR1335483 A, EP2374603 A1, EP1901969 B1, EP1864113 A1, EP1307520 A1, EP0929886 B1, EP0812450 B1, EP0585076 A2,

Forward Citations: GB2554093,**Abstract:**

The present invention relates to a secure container (10), having a neck (11) provided with a sealing member (30) and a security sleeve (20) including a shell made of a heat-shrinkable material, said sleeve being shrunk onto the neck and extending exclusively below the sealing member when the container is vertical with the sealing member towards the top or being partially covered by the sealing member, the security sleeve having at least one security element (50).

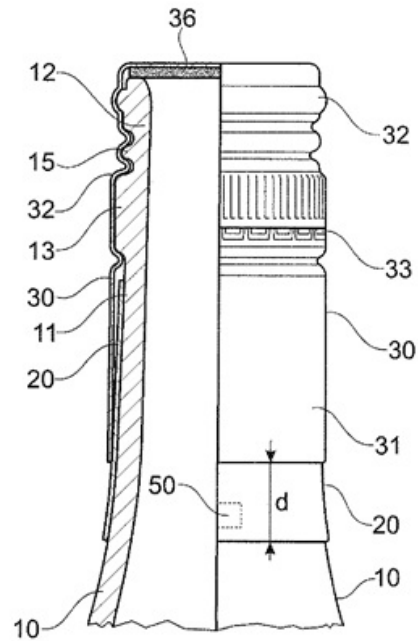


Fig. 1

16) Family number: 42619477 (US2010288765A)

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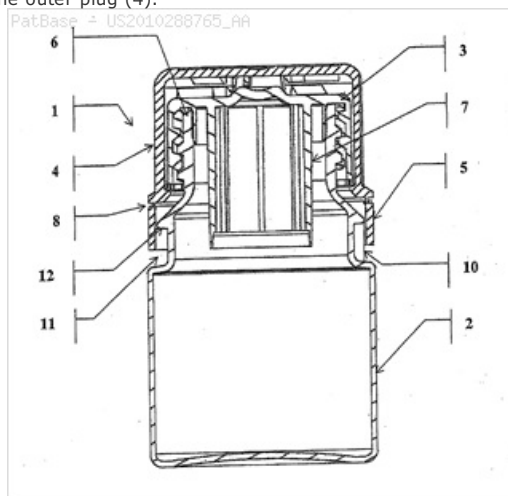
Title: CHILD SAFETY CLOSING DEVICE WITH FIRST OPENING INDICATOR SCREW AND RING**Priority:** FR20070003803 20070529 WO2008EP56551 20080528**Family:**

Publication number	Publication date	Application number	Application date
AT506275 E	20110515	AT20080760146T	20080528
DE602008006383 D1	20110601	DE200860006383T	20080528
EP2148822 A1	20100203	EP20080760146	20080528
EP2148822 B1	20110420	EP20080760146	20080528
FR2916741 A1	20081205	FR20070003803	20070529
FR2916741 B1	20090828	FR20070003803	20070529
US2010288765 AA	20101118	US20080601631	20080528
US9586738 BB	20170307	US20080601631	20080528
WO08145674 A1	20081204	WO2008EP56551	20080528

Probable Assignee: AIRSEC SAS**Assignee(s):**(std): AIRSEC S A S ; AIRSEC SOC PAR ACTIONS SIMPLIF ; GUILLON BRUNO ; HERRBACH BRUNO ; AIRSEC SAS ; CLARIANT PRODUCTION FRANCE S A S**Assignee(s):** TCG SENIOR FUNDING LLC ADMINISTRATIVE AGENT AS ; CLARIANT PRODUCTION FRANCE SAS ; AIRSEC SOC PAR ACTIONS SIMPLIFIEE ; AIRSEC SOCIETE PAR ACTIONS SIMPLIFIEE ; AIRSEC**Inventor(s):**(std): HERRBACH BRUNO ; GUILLON BRUNO**Inventor(s):** BRUNO HERRBACH ; BRUNO GUILLON**Agent(s):** SIEGERT GEORG ; CABINET PLASSERAUD ; PLASSERAUD IP ; SCOTT R COX LYNCH COX GILMAN AND MAHAN PSC ; SCOTT R ; HOFFMANN EITL ET AL**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**International class**
(IPC 8-9): B65D41/34 B65D43/04 B65D50/04 B65D51/00 B65D51/30 (Advanced/Invention);
B65D41/34 B65D50/00 B65D51/24 (Core/Invention)**CPC:** B65D51/30 B65D41/3409 B65D50/041 B65D2215/02**European class:** B65D41/34A1 B65D50/04B B65D51/30 L65D215/02**US class:** 220/212 220/801 220/801S[Classification Explorer](#)**Cited documents:** WO9722534 A1, WO9301098 A2, US8109396 BA, US8056742 BB, US7850028 BB, US7815061 BA, US7665601 BB, US7401707 BB, US7111746 BB, US7000789 BB, US6325227 BA, US6206216 BA, US6029834 A, US5836465 A, US5769252 A, US5762215 A, US5749484 A, US5743419 A, US5676268 A, US5667085 A, US5611443 A, US5593055 A, US5553727 A, US5433329 A, US5317796 A, US5280842 A, US5265744 A, US5188251 A, US5040692 A, US5020681 A, US5005718 A, US4984700 A, US4915244 A, US4834234 A, US4832218 A, US4813561 A, US4673095 A, US4598833 A, US4550845 A, US4527701 A, US4523688 A, US4520938 A, US4480759 A, US4474301 A, US4454955 A, US4394916 A, US4385705 A, US4319690 A, US4284201 A, US3944102 A, US3888375 A, US3857505 A, US3853236 A, US3837518 A, US3472411 A, US2009242561 AA, US2008083758 AA, US2007272646 AA, US2006108313 AA, US2005161425 AA, US2004262251 AA, US2004195197 AA, US2002134747 AA, EP1002737 A1, EP0794128 A1, EP0609171 A1, EP0297160 A1, EP0214711 A1, EP0127943 A1, DE3605963 A1,**Forward Citations:** WO17220729, WO17013007, US9975673, US9527637, US8833577, US8302792, US2010206877, US10414561, JP5679879, JP2012206730, GB2513730, EP3260390, EP3260390, EP3122654, EP3122654,

Abstract:

The invention relates to a child safety closing device (1) associated with a container (2), operating according to a design of two plugs (3, 4) embedded into each other, and allowing a vertical translation movement of the outer plug (4) relative to the inner screw-threaded plug (3) providing an unscrewing possibility and fitted with a first-opening indicator ring (5) connected by breakage bridges (8) to the outer plug (4) capable of vertical translation movement, characterised in that: a) said ring (5) has on its inner surface notches (9) for preventing its rotation when unscrewing the device by interaction with corresponding notches (10) formed on the neck of the associated container inside a peripheral groove (11) outside said collar, in order to induce the braking of the bridges by shearing; b) the upper wall of the groove (11) defines a guiding shoulder (12) for said ring (5) during the vertical translation movement of the ring (5) when connected to the outer plug; c) the notches (10) inside the groove (5) have a height such that they interact with the notches (9) inside the inner face of said ring (5) whatever the position of said ring (5) during the vertical translation movement thereof when connected to the outer plug (4).

**17) Family number: 15136637** (US6003701A)

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

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

Probable Assignee: BLACKHAWK MOLDING CO INC**Assignee(s):(std):** BLACKHAWK MOLDING CO ; BLACKHAWK MOLDING CO INC ; WALTER E HIDDING ; HIDDING WALTER E ; HIDDING DOUGLAS J ; HIDDING ROBERT D ; HIDDING WALTER EDWARD ; ROBERT D HIDDING**Assignee(s):** WALTER EDWARD HIDDING ; DOUGLAS J HIDDING ; BLACKHAWK MOLDING CO INC 120 INTERSTATE ROAD ADDISON IL 60101 UNITED**Inventor(s):(std):** HIDDING WALTER EDWARD ; WALTER E HIDDING ; HIDDING ROBERT D ; HIDDING DOUGLAS J ; HIDDING WALTER E ; DOUGLAS J HIDDING ; ROBERT D HIDDING**Inventor(s):** WALTER EDWARD HIDDING**Agent(s):** CASSAN MACLEAN; CASSAN MACLEAN IP AGENCY INC; NTD PATENT AND TRADE MARK AGENCY LTD UNITS 1805 6 18 F GREENFIELD TOWER; REINHOLD COHN AND PARTNERS**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR**International class** B65D B65D23/00 B65D41/32 B65D41/34 B65D41/48 (Advanced/Invention);

(IPC 8-9): B65D41/32 B65D41/34 (Core/Invention)

International class B65D B65D1/02 B65D23/00 B65D41/32 B65D41/34 B65D41/38 B65D41/48 B65D50/00 B65D55/02

(IPC 1-7):

CPC: B65D41/325 B65D41/3409 B65D41/32 B65D41/485

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

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

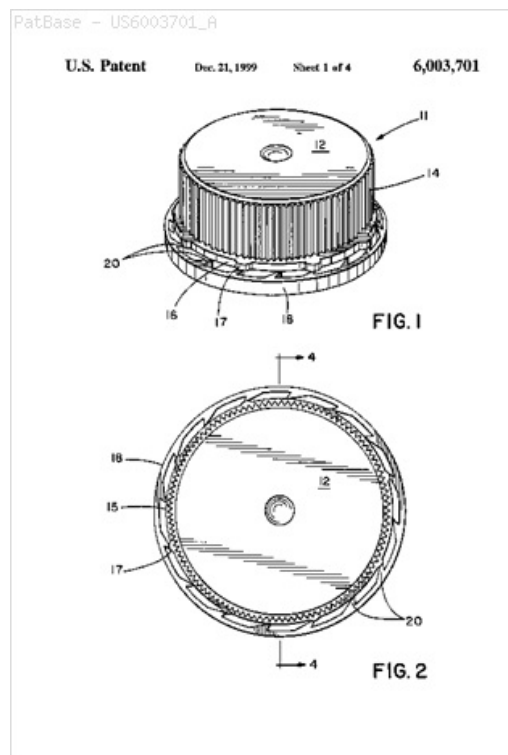
[Classification Explorer](#)

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

Forward Citations: WO17136590, WO16010542, WO15150661, WO08027044, WO02053472, USD867884, USD848844, USD709766, USD474112, USD451393, US9181001, US9016489, US8839976, US8544666, US8132685, US8118182, US8056744, US7975863, US7905369, US7713055, US7581652, US7314146, US7014055, US6988642, US6931821, US6779672, US6523710, US6338414, US2017305615, US2013308880, US2013126530, US2012000879, US2011174761, US2009283492, US2009277861, US2009200258, US2008169262, US2007272647, US2007087075, US2007051691, US2007051690, US2007034591, US2007034590, US2006102584, US2005263476, US2005252878, US2005039416, US2005029219, US2004060893, US2003173325, US10377534, ITMI20120443, GB2399559, GB2399559, GB2358182, GB2358182, EP3411301, EP3381831, EP2641841, EP2641841, EP1847472, EP1847472, EP1724201, EP1724201, EP1114781, EP1114781, DE102005037274, DE102005025760, DE102005022952, CN109641682, CN109415141, AU725554, AU2005209675, AU2002216840,

Abstract:

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



18) Family number: 58189684 (US2016347520A)

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Title: CLOSURE DEVICE FOR BOTTLES WITH EVIDENCE OF FIRST OPENING

Priority: EP20130382276 20130705 EP20140735962 20140704 WO2014EP64321 20140704

Family:

Publication number	Publication date	Application number	Application date
BR112016000134 A2	20170725	BR20161100134	20140704
CO16024069 A2	20160510	CO20160024069	20160203
CO7600661 A2	20160510	CO20160024069	20160203
DE602014011274 D1	20170817	DE201460011274T	20140704
DOP2016000002 A	20160331	DO20160000002	20160105
EA029468 B1	20180330	EA20160090169	20140704
EA201690169 A1	20160630	EA20160090169	20140704
EP2821350 A1	20150107	EP20130382276	20130705
EP3016878 A1	20160511	EP20140735962	20140704
EP3016878 B1	20170628	EP20140735962	20140704
ES2634904 T3	20170929	ES20140735962T	20140704
IN201617003942 A	20160722	IN201617003942	20160204
MX2016000053 A1	20160309	MX20160000053	20140704
PH2016500033 A	20160328	PH20160500033	20160105

PH2016500033 B	20160328	PH20160500033	20160105
TR201710923 T4	20170821	TR20170010923T	20140704
US2016347520 AA	20161201	US20140902949	20140704
US10196191 BB	20190205	US20140902949	20140704
WO15001084 A1	20150108	WO2014EP64321	20140704

Probable Assignee: COMPANIA DE TAPONES IRRELLENABLES SA

Assignee(s):(std): CIA DE TAPONES IRRELLENABLES S A ; COMPA IA DE TAPONES IRRELLENABLES S A ; COMPANIA DE TAPONES IRRELLENABLES S A ; TAPONES IRRELLENABLES

Assignee(s): COMPANIA DE TAPONES IRRELLENABLES SA ; CIA DE TAPONES IRRELLENABLES SA

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

Agent(s): ANDREA TOBOS MATEUS; ABG PATENTES SL; ARIAS JUAN; ERKAN SEVINC; FULERER TRISTAN A; OLIVE LAW GROUP PLLC; CALVO RAMON PABLO

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

International class (IPC 8-9): B65D41/32 B65D47/02 B65D47/12 B65D49/02 B65D50/00 B65D51/20 B65D55/02 (Advanced/Invention)

CPC: B65D47/123 B65D49/02 B65D55/026 B65D2101/00 B65D2101/0023

US class: 1/1 215/258

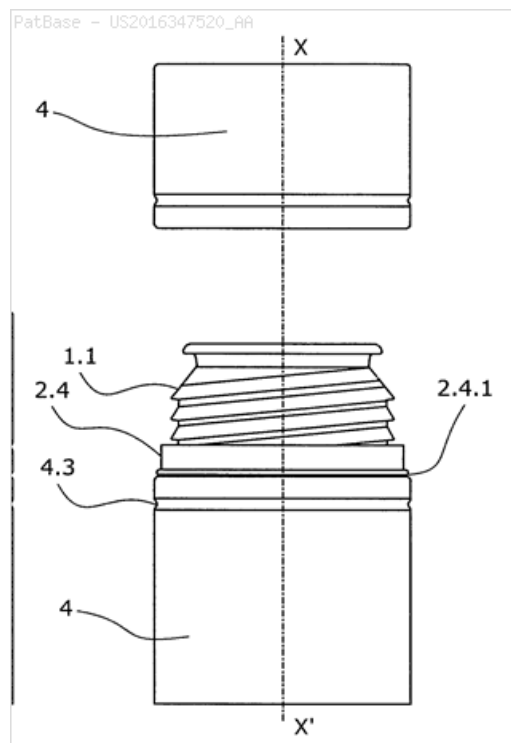
[Classification Explorer](#)

Cited documents: US9694948 BA, US9102448 BB, US8844770 BB, US8522991 BB, US8453856 BB, US8281944 BB, US7922019 BB, US7121419 BB, US6981600 BA, US6908013 BB, US6619492 BB, US6454126 BA, US6276544 BA, US5131549 A, US3850328 A, US3455479 A, US3348718 A, US3335889 A, US2201791 A, US2018072474 AA, US2016068311 AA, US2016060007 AA, US2015298876 AA, US2015274387 AA, US2014183195 AA, US2014054288 AA, US2014048537 AA, US2013276413 AA, US2010308054 AA, US2010170898 AA, US2009289027 AA, US2009166313 AA, US2008264893 AA, US2006113272 AA, US2005115915 AA, EP2178771 B1, EP2178771 B1, CA2618337 AA, CA2618337 AA,

Forward Citations: WO16128434, US2018072474,

Abstract:

The present invention relates to a closure device for bottles with evidence of first opening where before the first opening the closure shows a capsular line, and after the first opening, a separation line visually evidencing said first opening now appears where the perimetral line was previously located.



19) Family number: 57981865 (US2014360377A)

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Title: CAPSULE FOR PREPARING A BEVERAGE OR LIQUID FOOD AND SYSTEM USING BREWING CENTRIFUGAL FORCE

Priority: EP20070109579 20070605 EP20070109580 20070605 EP20080102147 20080229
EP20080102148 20080229 EP20080102149 20080229 WO2008EP54810 20080421
US20090602730 20091202 US20140334082 20140717

Family:

Publication number	Publication date	Application number	Application date
US2014360377 AA	20141211	US20140334082	20140717
US9603479 BB	20170328	US20140334082	20140717

Probable Assignee: DES PRODUITS NESTLE SA SOC

Assignee(s):(std): NESTEC SA

Assignee(s): DES PRODUITS NESTLE SA SOC

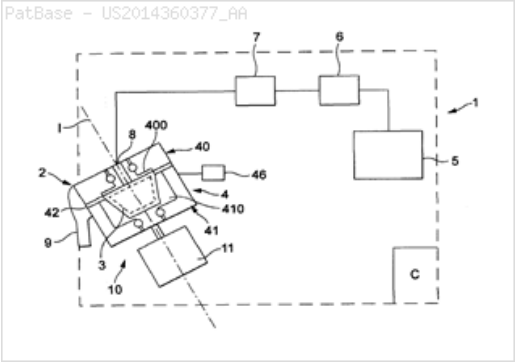
Inventor(s):(std): DENISART JEAN PAUL ; RYSER ANTOINE ; YOAKIM ALFRED
Agent(s): WINSTON AND STRAWN LLP
International class (IPC 8-9): A47J31/00 A47J31/22 A47J31/40 B65D85/804 (Advanced/Invention)
CPC: A47J31/22 B65D85/8043 A47J31/407
US class: 1/1 426/115 99/295

[Classification Explorer](#)

Cited documents: WO9402059 A1, WO10041179 A2, WO10038213 A2, WO10026053 A1, WO10026045 A1, WO09133134 A1, WO09106598 A1, WO09106175 A1, WO09050540 A1, WO08148834 A1, WO08148656 A1, WO08148650 A1, WO08148646 A1, WO08148604 A1, WO08148601 A1, WO08087099 A2, WO07110768 A2, WO07085921 A2, WO07042414 A1, WO07041954 A1, WO07014584 A1, WO06112691 A1, WO06082064 A1, WO05066040 A2, WO04030500 A1, WO0235977 A1, WO0217760 A1, US8813834 BB, US8512784 BB, US8431175 BB, US8409646 BB, US8327754 BB, US8307754 BB, US8151694 BB, US7981451 BB, US7770512 BB, US7569243 BB, US7569242 BB, US7469627 BB, US7325479 BB, US7325478 BB, US7216582 BB, US7153530 BB, US7017775 BB, US6854378 BB, US6849285 BB, US6786134 BB, US6777007 BB, US6607762 BB, US6007853 A, US5948455 A, US5826492 A, US5773067 A, US5755149 A, US5656311 A, US5649472 A, US5637335 A, US5566605 A, US5343799 A, US5325765 A, US5300308 A, US5265517 A, US5047252 A, US4996066 A, US4962693 A, US4859337 A, US4846052 A, US4806375 A, US4584101 A, US4545296 A, US4473002 A, US4464982 A, US4426919 A, US4136202 A, US3985069 A, US3967546 A, US3822013 A, US3812773 A, US3654852 A, US3566770 A, US3269298 A, US3233535 A, US3025781 A, US2952202 A, US2899886 A, US2778739 A, US239659 A, US2012058226 AA, US2011262601 AA, US2011244099 AA, US2011217421 AA, US2011189362 AA, US2011052761 AA, US2011041702 AA, US2010239734 AA, US2010203208 AA, US2010203198 AA, US2010186599 AA, US2010178404 AA, US2010178392 AA, US2010173056 AA, US2010108541 AA, US2010064899 AA, US2010024658 AA, US2009218877 AA, US2009155422 AA, US2009136639 AA, US2009050540 AA, US2009032454 AA, US2008187638 AA, US2008122286 AA, US2008038414 AA, US2008014860 AA, US2007289453 AA, US2007248734 AA, US2007079708 AA, US2006236871 AA, US2006196364 AA, US2006110507 AA, US2006003075 AA, US2005188854 AA, US2005150390 AA, US2004255790 AA, US2003189872 AA, US2003159593 AA, US2003145736 AA, US2003116029 AA, US1963476 A, TW200718383 A, JP6339431 A2, JP63034581 Y2, JP62254719 A2, JP6104091 B4, JP6104091 B2, JP59082817 A2, JP50016225 A2, JP3034606 U, JP2189114 A2, JP2124111 A2, JP2008520298 T2, JP2008508041 T2, JP2006518226 T2, JP2006515764 T2, JP2005525146 T2, JP2005516602 T2, JP2005199071 A2, JP2004517654 T2, JP2003144973 A2, JP2002215414 A2, JP2002189115 A2, JP2001061663 A2, GB2416480 A1, GB2253336 A1, GB2227405 A1, GB1506074 A, FR2726988 A1, FR2686007 A1, FR2685186 A1, FR2624364 A1, FR2617389 A1, FR2535597 A1, FR2531849 A1, FR2513106 A1, FR2487661 A1, FR2132310 A1, EP2155021 B1, EP2000062 A1, EP1813333 A2, EP1774878 A1, EP1654966 B1, EP1299022 B1, EP1208782 B1, EP0806373 B1, EP0749713 B1, EP0651963 B1, EP0607759 A1, EP0521510 A1, EP0521187 A1, EP0512470 B1, EP0367600 A1, EP0250810 A1, EP0242556 A1, DE4439252 A1, DE4240429 A1, DE3719962 C1, DE3529204 A1, DE3529053 A1, DE3241606 A1, DE2151920 A1, DE10355671 A1, DE102005007852 A1

Forward Citations: CN1656983 A, CN101001555 A, CA2625215 AA, BE894031 A, AT197553 B, US9999315, US9968217, US9808113, US9504348, US9439532, US9307860, US9049958, US2017233178, US2015257586, US2015144001, US10485374, US10342377, US10118757, US10080459, US10045654, US10034570, US09999315,

Abstract:
A capsule for preparing a beverage or liquid food from a substance, in a centrifugal brewing unit, by passing water through the substance contained in the capsule by using brewing centrifugal forces. The capsule includes an enclosure containing a predetermined dose of substance, an opening member which opens the capsule under the centrifugal effect to allow the brewed liquid to leave the capsule. The capsule may also include externally driving the capsule in a centrifugal brewing device wherein the capsule includes a structure configured to offer resistance to torque during rotation of the capsule for maintaining the capsule in a reference rotational position.



20) Family number: 52599956 (US2012325769A) © PatBase

Title: SCREW CAP AND A SPORT CLOSURE CAP WITH INTEGRAL SEAL OPENING MEANS
Priority: US20110167598 20110623
Family:

Publication number	Publication date	Application number	Application date
US2012325769 AA	20121227	US20110167598	20110623
US8646634 BB	20140211	US20110167598	20110623
WO12176124 A1	20121227	WO20121B53097	20120619
WO12176124 A4	20130411	WO20121B53097	20120619

Probable Assignee: ESSEBAGGERS JAN
Assignee(s):(std): DAVYDOVA KATERYNA ; DAVYDOVA KATERYNA O ; ESSEBAGGERS JAN
Inventor(s):(std): DAVYDOVA KATERYNA ; ESSEBAGGERS JAN ; DAVYDOVA KATERYNA O
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW

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

International class
(IPC 8-9):

B65D39/00 B65D41/00 B65D47/24 B65D5/74 B65D51/22 (Advanced/Invention)

CPC:

B65D5/748 B65D47/248 B65D51/222 B65D51/225

European class:

B65D47/24E B65D51/22A1 B65D51/22A1F

US class:

215/256 215/297 220/278 222/541.2

[Classification Explorer](#)

Cited documents:

WO09131457 A1, US8298103 BB, US8157115 BB, US8051997 BB, US7942284 BB, US7832580 BB, US7661565 BB, US7410071 BA, US7350666 BB, US6974045 BA, US6386385 BA, US6357628 BA, US6039198 A, US5797506 A, US5709311 A, US5702015 A, US5477972 A, US5090582 A, US4793503 A, US4709822 A, US4634013 A, US3581605 A, US2011210149 AA, US2009212061 AA, US2009101618 AA, US2008169261 AA, US2008041809 AA, US2007205229 AA, US2007102390 AA, US2007029353 AA, US2005263479 AA, US2005184076 AA, US2003230546 AA, NL2001524 C2, NL2001524 A1, LU88845 A, EP1364886 A1,

DE202009017321 U1

Forward Citations:

WO15123209, USD791591, USD790344, USD760081, USD756777, US9981785, US9938050, US9850048, US9604765, US9533802, US9357798, US9309032, US8733161, US2015223511, US10392161, US10351315, US10266322,

Abstract:

An integral seal opening means within a sport closure cap for containers, in which a tamper evident seal with a reinforced rim secures the mouth opening. The closure cap holds a minimum of three protrusions, extending towards the seal, each having cutting edges of which the lower one is at a smaller radius. These protrusions engage with the tamper evident seal, when the cap is rotated clockwise, thereby cutting off part of of the seal rim and at the same time cutting three banana shape slots in the seal. For single serve beverage bottles with tamper evident seal and a sport closure, there is no need to unscrew the cap for opening the seal and getting access to the beverage. Initially the reinforced rim is used to prevent protrusions from accidentally opening the bottle seal. The opened seal remains in place while the sport closure is held onto the bottle.

