

PatBase - Search results 02 June 2018

Search query (18): fn=(66793147:30 or 44895329:30 or 43607179:30 or 42123614:30 or 20694065:30 or 13554049:30 or 69899883:20 or 65081062:20 or 64342970:20 or 64240255:20 or 63933794:20 or 63313386:20 or 61584138:20 or 61383012:20 or 61062517:20 or 60817088:20 or 58629192:20 or 58070959:20 or 57543693:20 or 57211953:20 or 56590243:20 or 56540337:20 or 56015800:20 or 55973192:20 or 55521148:20 or 55426279:20 or 55303511:20 or 54948865:20 or 54284535:20 or 53746073:20 or 51811808:20 or 51723872:20 or 51715113:20 or 51510800:20 or 50639889:20 or 50601636:20 or 50505310:20 or 49789261:20 or 49774426:20 or 49121059:20 or 48344379:20 or 47100031:20 or 47096989:20 or 46843082:20 or 46420004:20 or 45439084:20 or 45000498:20 or 44936224:20 or 44920911:20 or 44584950:20 or 44578717:20 or 44573313:20 or 44566880:20 or 44549560:20 or 44536243:20 or 44421525:20 or 44334289:20 or 44233789:20 or 44229486:20 or 44189982:20 or 44129158:20 or 43964873:20 or 43842220:20 or 43226520:20 or 43176729:20 or 42863747:20 or 42621264:20 or 42614725:20 or 42576071:20 or 42520733:20 or 42483070:20 or 42262715:20 or 42161928:20 or 42124687:20 or 42071223:20 or 42065775:20 or 42052068:20 or 42045750:20 or 41824268:20 or 41819494:20 or 41804838:20 or 41798896:20 or 41792779:20 or 41659648:20 or 41575730:20 or 41440764:20 or 41007240:20 or 41004788:20 or 40746914:20 or 40351865:20 or 38540502:20 or 38469023:20 or 38337756:20 or 37516140:20 or 37495170:20 or 37415517:20 or 37364434:20 or 37326594:20 or 37326581:20 or 37313171:20)

Results: 100

Search history

Search CPC=(B65D50/062 or B65D50/043 or B65D50/046 or Y10S206/807) (Results 1322)

1:

Search 1 AND (FT = weak*) (Results 222)

2:

Search 2 AND (FT = bottle*) (Results 53)

3:

Search FT= (tamper* W4 (proof* OR eviden*)) NEAR bottle (Results 593)

4:

Search 4 AND (FT = pawl NEAR (brok* OR weak*)) (Results 0)

5:

Search 4 AND (FT = pawl NEAR (break* OR weak*)) (Results 1)

6:

Search 4 AND (FT = pin NEAR (break* OR weak*)) (Results 1)

7:

Search fn=(23266081 or 11518575 or 16314061 or 16314061 or 16314061 or 16314061 or 4479620 or 6564566 or 2153267 or 20554152 or 3848911 or 4530931 or 19205238) (Results 10)

Search PN=(US7077278) (Results 1)

9:

Search WO2011133067 (Results 0)

10:

Search PN=(WO2011133067) (Results 1)

11:

Search PN = EP1876111A1 (Results 0)

12:

Search PN = (EP1876111) (Results 1)

13:

Search PN = (US5740932) (Results 1)

14:

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15:

Search PA=(Sergio Gomez) (Results 4)

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Title: CLOSING DEVICE WITH SLIDING DISPENSING UNIT

Abstract: A closing device with a sliding dispensing unit contains an external housing equipped with a tear-off element with internal guiding and fixed elements, in which an internal housing is installed which is made with means of fastening on a vessel, with elements for air tight fit in the opening of the neck of vessel and, at least, one lifting inclined surface. In the case the dispensing unit installed in the internal housing has a dispensing bushing equipped with a locking cap, a dispensing nozzle with a passage opening and, at least, one lifting shaft for transforming rotary motion of the external housing into axial forward motion of the dispensing unit to the side of opening with possibility of displacement outside the locking cap relative to the external housing. The device contains a sealing bushing hermetically installed in the internal housing. In the case the lower end of sealing bushing is closed with a bottom capable of hermetically closing the passage opening of dispensing nozzle in its lower position. In the part of the side of sealing bushing adjacent to the bottom at least two dispensing openings are made. In the upper part of the sealing bushing oriented upwards internal sealing nozzle is made with possibility of formation of a sealed mobile connection with the external surface of dispensing nozzle.

Classifications:

International (IPC 8-9): B65D39/00 B65D41/34 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
RU104922 U1	20110527	RU20100145505U	20101029
UA45957 U	20091125	UA20090100999U	20091030

Priority:

UA20090010999U 20091030 UA20090100999U 20091030

Probable Assignee: IMAGE HOLDING SUBSIDIARY CO OF IMAGE HOLDING APS JOINT STOCK CO

Assignee(s): (std): IMAGE HOLDING SUBSIDIARY CO OF IMAGE HOLDING APS JOINT STOCK CO

Inventor(s): (std): CHERNIAK YEVHENII OLEKSANDROVYCH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
RU104922 U1	20110527	LSGT	+	granted / extensions (spc, cpc, pte)	
RU104922 U1	20120827	LSLE	-MM1K	UTILITY MODEL HAS BECOME INVALID (NON-PAYMENT OF FEES)	EFFECTIVE DATE : 20111030
RU104922 U1	20181029	PEXP		Calculated Patent Term Expiry	
UA45957 U	20091125	LSGT	+	granted / extensions (spc, cpc, pte)	
UA45957 U	20191030	PEXP		Calculated Patent Term Expiry	

Title: TAMPER-EVIDENT PACKAGE WITH IMPROVED OPENING PERFORMANCE

Abstract: A tamper-evident package having pressurized contents includes a closure and associated container which cooperate to provide desired tamper-evidence upon initial removal of the closure from the container, while promoting convenient and comfortable removal and use by consumers. In particular, the package is configured such that from a fully applied position of the closure on the container, the closure is movable through a predetermined angle prior to actuation of the tamper-evident feature on the package. In this fashion, the torque which must be applied to the closure for overcoming the static friction at the sealing interface between the closure and the container can be overcome prior to the application of torque required for operating the tamper-evident feature of the package. The present invention contemplates enhancing the opening performance of the package by configuring the package to include certain structure features to facilitate convenient, consistent, and comfortable use by consumers.

Classifications:

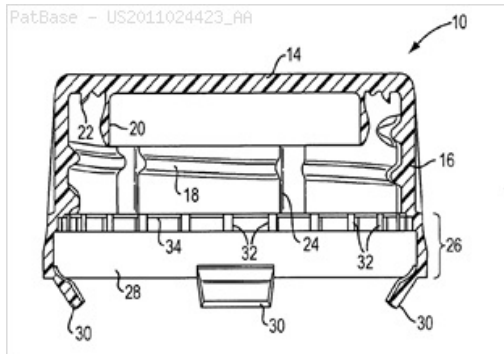
International (IPC 8-9): B65D B65D1/02 B65D39/00 B65D41/34 B65D41/36 B65D41/38 B65D41/62 (Advanced/Invention); B65D41/34 (Advanced/Non-invention); B65D39/00 B65D41/00 (Core/Invention)

International (IPC 1-7): B65D39/00

CPC: B65D41/3428

European: B65D41/34C1

US: 215/252 215/307 215/329 215/336 215/344 215/44 215/902 220/266 220/268 220/276

**Family:**

Publication number	Publication date	Application number	Application date
AU2009260868 AA	20091223	AU20090260868	20090430
AU2009260868 BB	20150702	AU20090260868	20090430
BRPI0911576 A2	20170620	BR2009PI11576	20090430
CA2721234 AA	20091223	CA20092721234	20090430
CN102015472 A	20110413	CN200980115609	20090430
CN102015472 B	20130828	CN200980115609	20090430
EG26024 A	20121211	EG20100101820	20101028
EP2268554 A2	20110105	EP20090766980	20090430
EP2268554 A4	20111207	EP20090766980	20090430
IN06911CN2010 A	20110708	IN2010CN06911	20101027
JP2011519330 T2	20110707	JP20110507444T	20090430
MX2010011796 A1	20101130	MX20100011796	20090430
RU2010148807 A	20120610	RU20100148807	20090430
RU2507137 C2	20140220	RU20100148807	20090430
US2011024423 AA	20110203	US20090934916	20090430
US8807360 BB	20140819	US20090934916	20090430
WO09154666 A2	20091223	WO2009US02632	20090430
WO09154666 A3	20100218	WO2009US02632	20090430
ZA201006949 A	20110629	ZA20100006949	20100929

Priority:

US20080125981P 20080430 US20090934916 20090430 WO2009US02632 20090430

Probable Assignee: CLOSURE SYSTEMS INT INC

Assignee(s): (std): CLOSURE SYSTEMS INT ; CLOSURE SYSTEMS INT INC ; CLOSURE SYSTEMS INTERNAT ; CLOSURE SYSTEMS INTERNATIONAL ; CLOSURE SYSTEMS INTERNATIONAL INC ; MCBRIDE STEVE ; SMEYAK LAWRENCE M ; GEVERS DAVE ; ERSPAMER JOHN ; CLOSURE SYSTEMS INTERNTIONAL INC ; KLOUZHER SISTEMZ INTERNEHSHNL INK

Assignee(s): BANK OF NEW YORK MELLON

Inventor(s): (std): DZHEVERS DEHJV ; EHRSPAMER DZHON ; MAKBRAJD STIV ; SMEYAK LARRI ; STEVE MCBRIDE ; SMEYAK LAWRENCE M ; SMEYAK LARRY ; MCBRIDE STEVE ; MCBRIDE STEVE ; LARRY SMEYAK ; JOHN ERSPAMER ; GEVERS DAVE ; ERSPAMER JOHN ; DAVE GEVERS

Agent(s): FB RICE ; FB RICE PTY LTD ; ALGEMEEN OCTROOI EN MERKENBUREAU ; WOOD PHILLIPS KATZ CLARK AND MORTIMER ; GEIMER D STEPHEN

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2009260868 AA	20091223	LSPB	+	published / reissued	
AU2009260868 BB	20150702	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2009260868 BB	20151029	LSGT	+FGA	LETTERS PATENT	

				SEALED OR GRANTED (STANDARD PATENT)		
AU2009260868 BB	20290430	PEXP		Calculated Patent Term Expiry		
BRPI0911576 A2	20170704	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW		
BRPI0911576 A2	20171031	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)		
CA2721234 AA	20091223	LSPB	+	published / reissued		
CA2721234 AA	20140505	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20140424	
CA2721234 AA	20160613	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20160502	
CN102015472 A	20110413	LSPB	+	published / reissued		
CN102015472 A	20110413	LSPB	+C06	PUBLICATION		
CN102015472 B	20130828	LSGT	+	granted / extensions (spc, cpc, pte)		
CN102015472 B	20130828	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL		
CN102015472 B	20290430	PEXP		Calculated Patent Term Expiry		
EG26024 A	20121211	LSGT	+	granted / extensions (spc, cpc, pte)		
EG26024 A	20301028	PEXP		Calculated Patent Term Expiry		
EP2268554 A2	20110105	LSPB	+	published / reissued		
EP2268554 A2	20110105	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100928	
EP2268554 A4	20111207	LSSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20111108	
EP2268554 A4	20111207	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B65D 39/00 20060101AFI20111103BHEP	
EP2268554 A4	20111207	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B65D 41/34 20060101ALN20111103BHEP	
EP2268554 A4	20150304	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20150202	
EP2268554 A4	20171213	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B65D 39/00 20060101AFI20171106BHEP	
EP2268554 A4	20171213	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B65D 41/34 20060101ALN20171106BHEP	
EP2268554 A4	20171227	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B65D 39/00 20060101AFI20171123BHEP	
EP2268554 A4	20171227	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B65D 41/34 20060101ALN20171123BHEP	
EP2268554 A4	20180103	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20171205	
EP2268554 A4	20180404	LSAS	RAP1	TRANSFER OF	PARTYTYPE : OWNER	

				RIGHTS OF AN APPLICATION	OWNER : CLOSURE SYSTEMS INTERNATIONAL INC.
IN06911CN2010 A	20110708	LSPB	+	published / reissued	
JP2011519330 T2	20110707	LSPB	+	published / reissued	
JP2011519330 T2	20120406	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20120405
JP2011519330 T2	20130514	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20130514
JP2011519330 T2	20130813	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130812
JP2011519330 T2	20140306	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20140305
JP2011519330 T2	20141009	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20141008
MX2010011796 A1	20101130	LSPB	+	published / reissued	
MX2010011796 A1	20120831	LSLI	GD	LICENCE GRANTED	
MX2010011796 A1	20141203	LSGT	+FG	GRANT OR REGISTRATION	
RU2010148807 A	20120610	LSPB	+	published / reissued	
RU2507137 C2	20140220	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2507137 C2	20290430	PEXP		Calculated Patent Term Expiry	
US2011024423 AA	20110203	LSPB	+	published / reissued	
US2011024423 AA	20140702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CLOSURE SYSTEMS INTERNATIONAL INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ERSPAMER, JOHN; MCBRIDE, STEVE; GEVERS, DAVE; AND OTHERS; SIGNING DATES FROM 20140625 TO 20140630; REEL/FRAME:033233/0051
US8807360 BB	20140819	LSGT	+	granted / extensions (spc, cpc, pte)	
US8807360 BB	20140730	LSGT	PAT1	Patented Case	
US8807360 BB	20171109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON, NEW YORK OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:CLOSURE SYSTEMS INTERNATIONAL INC.; EVERGREEN PACKAGING INC.; GRAHAM PACKAGING COMPANY, L.P.; AND OTHERS; REEL/FRAME:044722/0528 EFFECTIVE DATE : 20170817
US8807360 BB	20180212	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8807360 BB	20300123	PEXP		Calculated Patent Term Expiry (PTA 268 days)	
WO09154666 A2	20091223	LSPB	+	published / reissued	
WO09154666 A2	20100922	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2009260868 COUNTRY OF REF DOCUMENT : AU
WO09154666 A2	20100927	LSNP	+WWE	WIPO INFORMATION:	REF DOCUMENT NUMBER : 12934916

WO09154666 A2	20101012	LSNP	+WWE	ENTRY INTO NATIONAL PHASE	COUNTRY OF REF DOCUMENT : US
				WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2721234 COUNTRY OF REF DOCUMENT : CA
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WO09154666 A2	20101029	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011507444 COUNTRY OF REF DOCUMENT : JP
WO09154666 A2	20101102	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO09154666 A2	20101130	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010148807 COUNTRY OF REF DOCUMENT : RU
WO09154666 A2	20170620	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0911576 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20101028
ZA201006949 A	20110629	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201006949 A	20300928	PEXP		Calculated Patent Term Expiry	

Title: Sealing cover

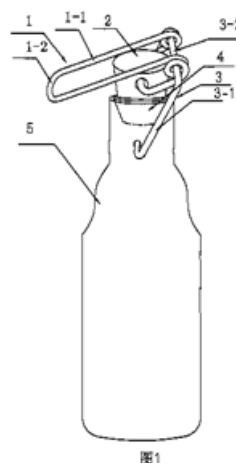
Abstract: The utility model relates to the field of sealing devices, and discloses a sealing cover which comprises a cover body matched with an opening of a container, an upper connecting body and a lower connecting body, wherein one end of the upper connecting body is wound around the lower connecting body and installed on the cover body, and the other end thereof extends to be contacted with the cover body and clamps the cover body; and the lower connecting body is arranged on the container. By adopting the structure, the upper connecting body and the lower connecting body are in spring clip type connection, and a bottle cap is connected with the upper connecting body; after the upper connecting body is rotated at a certain angle, the bottle cap can be opened, and a bottle opener is not needed, therefore the sealing cover has convenient use; after wine is drunk, the upper connecting body can be pulled downwards, and the cover body can be tightly covered, therefore, the liquid in the container is prevented from being contacted with the air and going bad; as a wooden plug is not needed to be forcibly plugged into the bottle, the sealing cover is convenient for use; a sealing sleeve with the shape corresponding to that of the cover body is sheathed on the outer wall of the cover body, therefore, the sealing performance of the bottle cap is better; furthermore, the bottle cap is connected with the bottle body all the time and can not be lost.

Classifications:

International (IPC 8-9): B65D39/16 B65D53/00
B65D55/16 (Advanced/Invention);
B65D39/00 B65D53/00 B65D55/00 (Core/Invention)

PatBase - CN201367165_Y

说明书附图 第1/1页



Family:

Publication number	Publication date	Application number	Application date
CN201367165 Y	20091223	CN200920018884U	20090209

Priority:

CN200920018884U 20090209

Probable Assignee:

YUSHAN ZHANG

Assignee(s): (std):

YUSHAN ZHANG

Assignee(s):

ZHANG YUSHAN

Inventor(s): (std):

YUSHAN ZHANG

Inventor(s):

ZHANG YUSHAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201367165 Y	20091223	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201367165 Y	20091223	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201367165 Y	20120418	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201367165 Y	20190209	PEXP		Calculated Patent Term Expiry	

Title: LID FOR CLOSING BOTTLES WITH A MEANS FOR CONTROLLING THE SEALING CONDITIONS, AND MACHINE TO BE USED IN THE PRODUCTION OF SAID LIDS

Abstract: The invention relates to a lid including, at an outer surface thereof, a series of grooves, cuts, or cracks which, if located on a side wall of the lid and with a first configuration which extends along said side wall from one of the bases thereof to the other, provide a channel for conveying a gaseous fluid between the inside and the outside of the bottle and, when located at one of the bases and/or at a side wall of the lid, with at least one second configuration, increase the sealing capacity of the lid by means of an inner pressure.

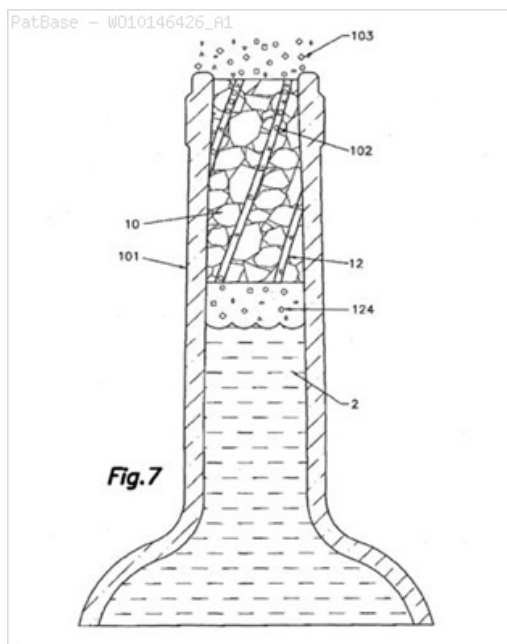
Classifications:

International (IPC 8-9): B21D51/44 B27J5/00 B65D39/00 B65D41/34 B65D51/16 B65D51/24 (Advanced/Invention)

International (IPC 1-7): B65D51/24

CPC: B65D51/1622 B27J5/00 B65D39/0011 B65D51/24 B65D2539/005 C12G3/065 B21D51/44 B65D39/00 B65D41/34

European: B21D51/44 B27J5/00 B65D39/00 B65D39/00F1 B65D41/34 B65D51/16C3 B65D51/24 C12G3/06B L65D539/00Y4



Family:

Publication number	Publication date	Application number	Application date
AR077092 AA	20110803	AR2010P102099	20100614
EP2444335 A1	20120425	EP20100732425	20100601
ES2331684 AA	20100112	ES20090001437	20090617
ES2331684 BA	20101013	ES20090001437	20090617
WO10146426 A1	20101223	WO2010IB01308	20100601

Priority:

ES20090001437 20090617 WO2010IB01308 20100601

Probable Assignee: GODOY VARO JOSE LUIS

Assignee(s): (std): GODOY VARO JOSE LUIS

Assignee(s): JOSE LUIS GODOY VARO

Inventor(s): (std): GODOY VARO JOSE LUIS

Inventor(s): JOSE LUIS GODOY VARO

Agent(s): TORNER LASALLE ELISABETH

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 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 PE PG PH PL PT RO RS RU 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR077092 AA	20110803	LSPB	+	published / reissued	
AR077092 AA	20141203	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
EP2444335 A1	20120425	LSPB	+	published / reissued	
EP2444335 A1	20120425	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20120113
EP2444335 A1	20150401	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20150225
EP2444335 A1	20151111	LSES	+R17C	DESPATCH OF FIRST EXAMINATION REPORT (CORRECTION)	EFFECTIVE DATE : 20150317
EP2444335 A1	20170726	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20160809

ES2331684 AA	20100112	LSPB	+	published / reissued	
ES2331684 AA	20100112	LSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 20100112 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
ES2331684 BA	20101013	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2331684 BA	20101013	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2331684B1 COUNTRY OF REF DOCUMENT : ES
ES2331684 BA	20290617	PEXP		Calculated Patent Term Expiry	
WO10146426 A1	20101223	LSPB	+	published / reissued	
WO10146426 A1	20111219	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

Title: SYNTHETIC RESIN CONTAINER CLOSURE

Abstract: [Problems to be Solved] In a synthetic resin container closure of a type which includes a body and a tamper evident bottom portion connected to the body via a plurality of breakable bridge portions arranged with spacing in a circumferential direction, and in which the body continues to be connected via unbroken connecting pieces to the tamper evident bottom portion continuously mounted on a mouth-and-neck portion of a container even after the bridge portions are broken to remove the body from the mouth-and-neck portion of the container, an improvement is made so that the container closure can be applied, without posing problems, even when the ascent distance of the body when removed is relatively long. [Means to Solve the Problems] Each of the unbroken connecting pieces is in such a form as to include two tilting portions whose tilting directions are opposite to each other.

Classifications:

International (IPC 8-9): B65D41/00 B65D41/32 B65D41/34 B65D47/08 B65D47/14 B65D49/12 B65D55/02

B65D55/16 (Advanced/Invention);

B65D41/34 B65D49/12 B65D55/16 (Advanced/Non-invention);

B65D41/04 B65D41/34 B65D47/08 B65D47/12 B65D55/00

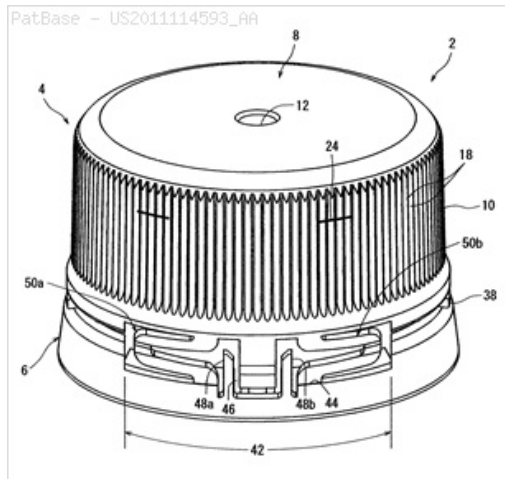
B65D55/02 (Core/Invention)

International (IPC 1-7): B65D41/04

CPC: B65D41/325 B65D41/3428 B65D55/16

European: B65D41/32B B65D41/34C1 B65D55/16

US: 215/252 215/253 215/258 215/306 220/375 220/810 220/836 220/837



Family:

Publication number	Publication date	Application number	Application date
AT556953 E	20120515	AT20090794365T	20090701
CN102089220 A	20110608	CN200980126530	20090701
CN102089220 B	20120926	CN200980126530	20090701
DE602009006885 D1	20120705	DE200960006885T	20090701
EP2308772 A1	20110413	EP20090794365	20090701
EP2308772 A4	20110615	EP20090794365	20090701
EP2308772 B1	20120509	EP20090794365	20090701
JP2010018290 A2	20100128	JP20080178225	20080708
JP2010083488 A2	20100415	JP20080251045	20080929
JP5215798 B2	20130619	JP20080251045	20080929
JP5574582 B2	20140820	JP20080178225	20080708
KR101422326 B1	20140722	KR20117000854	20090701
KR20110036736 A	20110408	KR20117000854	20090701
RU2011100292 A	20120720	RU20110100292	20090701
RU2478542 C2	20130410	RU20110100292	20090701
TH104888 A	20101110	TH20091003081	20090709
TH39000 B	20140207	TH20091003081	20090709
US2011114593 AA	20110519	US20090002908	20090701
US8469213 BB	20130625	US20090002908	20090701
WO10004919 A1	20100114	WO2009JP62043	20090701

Priority:

JP20080178225 20080708 JP20080251045 20080929 EP20090794365 20090701
WO2009JP62043 20090701

Probable Assignee: JAPAN CROWN CORK CO LTD

Assignee(s): (std): DZHAPAN KRAUN KORK KO LTD ; FUKUSHI SEIJI ; ISHII OSAMU ; CROWN CORK JAPAN ; KIMURA TAKASHI

Assignee(s): DZHAPAN KRAUN KORK KO ; JAPAN CROWN CORK CO ; JAPAN CROWN CORK CO LTD

Inventor(s): (std): FUKUSHI SEJDZHI ; OSAMU ISHII ; SEIJI FUKUSHI ; TAKASHI KIMURA ; KIMURA TAKASHI ; ISHII OSAMU ; FUKUSHI SEIJI

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; HAYDN CHRISTIAN; GREENBLUM AND BERNSTEIN P L C; GREENBLUM AND BERNSTEIN PLC; ONO HISAZUMI 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 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 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 PE 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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AT556953 E	20120515	LSGT	+	granted / extensions (spc, cpc, pte)	

AT556953 E	20290701	PEXP		Calculated Patent Term Expiry	
CN102089220 A	20110608	LSPB	+	published / reissued	
CN102089220 A	20110608	LSPB	+C06	PUBLICATION	
CN102089220 B	20120926	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102089220 B	20120926	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN102089220 B	20290701	PEXP		Calculated Patent Term Expiry	
EP2308772 A1	20110413	LSPB	+	published / reissued	
EP2308772 A1	20110413	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110127
EP2308772 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160629 YEAR OF FEE PAYMENT : 8
EP2308772 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160613 YEAR OF FEE PAYMENT : 8
EP2308772 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160628 YEAR OF FEE PAYMENT : 8
EP2308772 A4	20110615	LSSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20110517
EP2308772 A4	20111109	LSRE	RTI1	TITLE (CORRECTION)	TEXT : SYNTHETIC RESIN CONTAINER CLOSURE
EP2308772 A4	20120111	LSRE	RTI1	TITLE (CORRECTION)	TEXT : SYNTHETIC RESIN CONTAINER CLOSURE
EP2308772 B1	20120509	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2308772 B1	20120509	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2308772 B1	20120515	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2308772 B1	20120515	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 556953 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20120515
EP2308772 B1	20120606	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2308772 B1	20120705	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602009006885 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120705
EP2308772 B1	20120829	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20120509
EP2308772 B1	20121025	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D EFFECTIVE DATE : 20120509
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EP2308772 B1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120909
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EP2308772 B1	20121115	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 556953 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20120509
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EP2308772 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120509
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EP2308772 B1	20130417	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20130212
EP2308772 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120820
EP2308772 B1	20130508	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2308772 B1	20130606	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602009006885 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130212
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EP2308772 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120809
EP2308772 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120509
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EP2308772 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090701
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EP2308772 B1	20170613	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2308772 B1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170628 YEAR OF FEE PAYMENT : 9
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EP2308772 B1	20290701	PEXP		Calculated Patent Term Expiry	
JP2010018290 A2	20100128	LSPB	+	published / reissued	
JP2010018290 A2	20110407	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20110322
JP2010018290 A2	20120704	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20120703
JP2010018290 A2	20120830	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20120829
JP2010018290 A2	20130327	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20130326
JP2010018290 A2	20130524	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130523
JP2010018290 A2	20131204	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20131203
JP2010018290 A2	20140124	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140123
JP2010018290 A2	20140609	LSGT	+TRDD	DECISION OF GRANT OR	

JP2010018290 A2	20140618	LSGT	+A01	REJECTION WRITTEN	
				WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20140617
JP2010018290 A2	20140710	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20140701
JP2010018290 A2	20140711	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5574582 COUNTRY OF REF DOCUMENT : JP
JP2010083488 A2	20100415	LSPB	+	published / reissued	
JP2010083488 A2	20110622	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20110606
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JP2010083488 A2	20130123	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130122
JP2010083488 A2	20130218	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2010083488 A2	20130227	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20130226
JP2010083488 A2	20130307	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20130301
JP2010083488 A2	20130308	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2010083488 A2	20130311	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP5215798 B2	20130619	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5215798 B2	20130228	LSGT	+A01	特許査定書 Decision of patent grant	
JP5215798 B2	20130305	LSFE	R100	特許料納付書 Patent fee payment form	
JP5215798 B2	20160212	LSFE	R20	特許料納付書 Patent fee payment form	
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JP5574582 B2	20140619	LSGT	+A01	特許査定書 Decision of patent grant	

JP5574582 B2	20140708	LSFE	R100	特許料納付書 Patent fee payment form	
JP5574582 B2	20140711	LSGT	+R150	特許証 Patent certificate	
JP5574582 B2	20170615	LSFE	R20	特許料納付書 Patent fee payment form	
JP5574582 B2	20170620	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP5574582 B2	20280708	PEXP		Calculated Patent Term Expiry	
KR101422326 B1	20140722	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101422326 B1	20120627	LSSES	A201	REQUEST FOR EXAMINATION	
KR101422326 B1	20131030	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
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KR20110036736 A	20110408	LSPB	+	published / reissued	
RU2011100292 A	20120720	LSPB	+	published / reissued	
RU2478542 C2	20130410	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2478542 C2	20140210	LSAS	PD4A	CORRECTION OF NAME OF PATENT OWNER	
RU2478542 C2	20290701	PEXP		Calculated Patent Term Expiry	
TH104888 A	20101110	LSPB	+	published / reissued	
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US8469213 BB	20130605	LSGT	PAT1	Patented Case	
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WO10004919 A1	20100114	LSPB	+	published / reissued	
WO10004919 A1	20110106	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13002908 COUNTRY OF REF DOCUMENT : US
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				NATIONAL PHASE IN:	20117000854 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO10004919 A1	20110112	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011100292 COUNTRY OF REF DOCUMENT : RU

Title: STOPPER COMPRISING AN INVIOABILITY SEAL

Abstract: The invention relates to an inviolability stopper comprising an upper base (7) from the inner, central and lower region of which extends an inner neck (5) for penetrating into the mouth of the bottle, ensuring its closure. An external skirt (6) extends downwards from the perimeter of said base (7), said skirt being partially or completely separable from the rest of the stopper by tearing when pulled by a seal (2), in such a way that it (6) engages in an outer zone of the mouth of the bottle, preventing the stopper from being removed when the tearing has not yet taken place. The invention is characterised in that the seal (2) connects the upper base (7) and the outer skirt (6) by means of ribs or little partitions (4) that break when said tearing takes place.

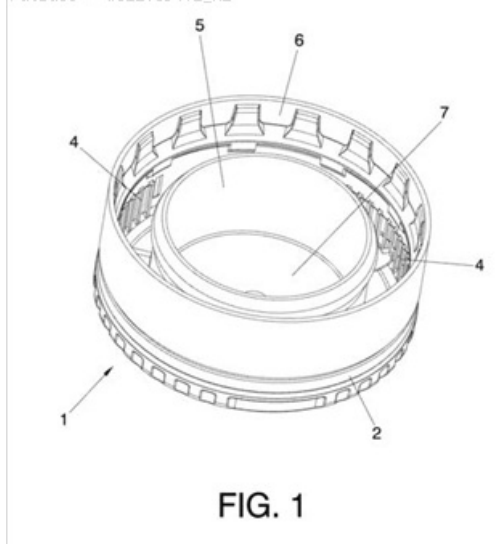
Classifications:

International (IPC 8-9): B65D39/00 B65D41/34 (Advanced/Invention)

CPC: B65D41/325 B65D41/3447

European: B65D41/32B B65D41/34D1

PatBase - WO11039401_A1



Family:

Publication number	Publication date	Application number	Application date
ES1071298 UA	20100211	ES20090030492U	20091001
ES1071298 Y1	20100506	ES20090030492U	20091001
WO11039401 A1	20110407	WO2010ES70636	20100930

Priority:

ES20090030492 20091001 ES20090030492U 20091001

Probable Assignee: GOIPLASTIK S L

Assignee(s): (std): BERNAL ARDANAZ FRANCISCO JAVIER ; GARCIA ALBOREDA JESUS JAVIER ; GOIPLASTIK S L

Inventor(s): (std): BERNAL ARDANAZ FCO JAVIER ; BERNAL ARDANAZ FRANCISCO JAVIER ; BERNAL ARDANAZ JAVIER ; GARCIA ALBOREDA JESUS JAVIER

Agent(s): UNGRIA LOPEZ JAVIER

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 RO RS RU 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

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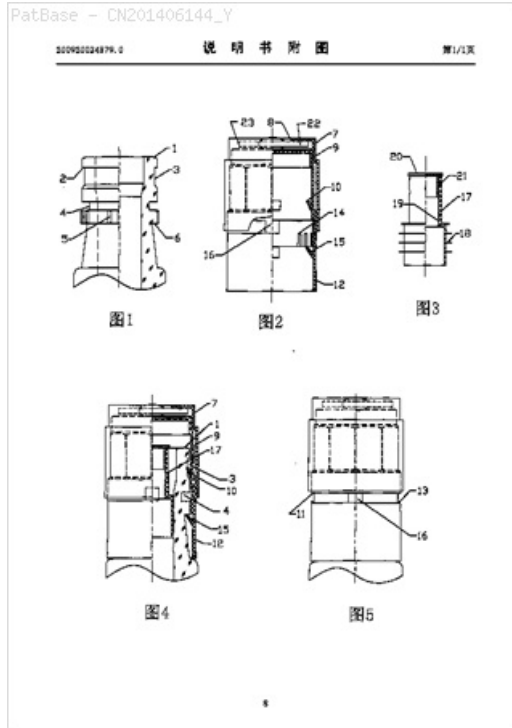
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ES1071298 Y1	20100506	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1071298 Y1	20100506	LSGT	+FG1K	UTILITY MODEL GRANTED	
ES1071298 Y1	20120305	LSAS	+PC1K	TRANSFER OF UTILITY MODEL	PARTYTYPE : OWNER OWNER : EMBALAJES PLASTICOS DE SOPELANA, S.L. EFFECTIVE DATE : 20120222
ES1071298 Y1	20191001	PEXP		Calculated Patent Term Expiry	
WO11039401 A1	20110407	LSPB	+	published / reissued	
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WO11039401 A1	20121024	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 10819947 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF

Title: Prying-type anti-counterfeit wine bottle

Abstract: The utility model provides a prying-type anti-counterfeit wine bottle, which comprises a bottle mouth with a bottleneck, an upper cap and an annular lower cap. An annular prying groove is arranged on the bottleneck at the lower part of the bottle mouth. The lower edge of the upper cap is connected with the lower cap. The utility model is characterized in that an annular sliding groove is arranged between the annular prying groove and the bottle mouth, the upper edge of the annular sliding groove is an annular anti-drop straight platform, and anti-drop teeth are arranged on the inner wall of the upper cap and can move up and down only in the annular sliding groove; the lower cap is fixed on the bottleneck, and prying apertures are arranged at the lower part of the lower cap at positions corresponding to the annular prying groove. The utility model has the advantages that the prying-type bottle mouth is improved, the bottle is suitable for the mechanized line production, the bottle cap can be rapidly and fixedly installed at the prying-type bottle mouth, the bottle is sealed, hygienic and tight, the anti-counterfeit performance is good, the use is safe after the upper cap is pried, and the appearance of the bottle mouth is beautiful.

Classifications:

International (IPC 8-9): B65D39/00 B65D41/34 B65D47/06
B65D49/12 B65D51/28 B65D53/02 B65D55/02
B65D85/72 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201406144 Y	20100217	CN200920024979U	20090508

Priority:

CN200920024979U 20090508

Probable Assignee:

HUANWEN DONG

Assignee(s): (std):

HUANWEN DONG

Assignee(s):

DONG HUANWEN

Inventor(s): (std):

WEIDONG XIU ; HUANWEN DONG

Inventor(s):

XIU WEIDONG ; DONG HUANWEN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201406144 Y	20100217	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201406144 Y	20100217	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201406144 Y	20130626	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201406144 Y	20190508	PEXP		Calculated Patent Term Expiry	

Title: CONTAINER CAP FOR ANTI-IDLE-ROTATION

Abstract: PURPOSE: A container cap for anti-idle rotation is provided to inhibit idle rotation and improve user's convenience. CONSTITUTION: A container cap for anti-idle rotation comprises: a fixation ring(33) which is coupled to prevent separation from a container main body(10); and a piece(35) which is connected to a cap main body(31) through a hinge(32) and prevents the idle rotation. A screw is formed at the inner circumference of cap main body. A cut line for extending connection length to the cap main body is horizontally formed.

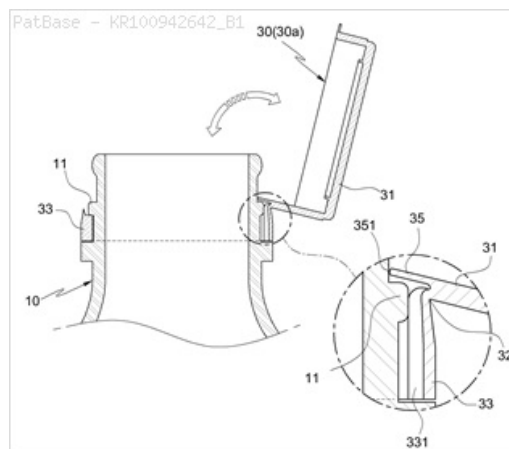
Classifications:

International (IPC 8-9): B65D41/16 B65D41/34 B65D47/08

B65D55/16 (Advanced/Invention);

B65D41/02 B65D41/34 B65D47/08 B65D55/00 (Core/Invention)

CPC: B65D55/16 B65D41/16 B65D41/34 B65D47/08 B65D47/0804



Family:

Publication number	Publication date	Application number	Application date
KR100942642 B1	20100217	KR20090073038	20090808

Priority:

KR20090073038 20090808

Probable Assignee:

KWON SI JOONG

Assignee(s): (std):

KWON SI JOONG

Inventor(s): (std):

KWON SI JOONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR100942642 B1	20100217	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100942642 B1	20090808	LSES	A201	REQUEST FOR EXAMINATION	
KR100942642 B1	20090822	LSES	A302	REQUEST FOR ACCELERATED EXAMINATION	
KR100942642 B1	20091111	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR100942642 B1	20100126	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR100942642 B1	20100208	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR100942642 B1	20130225	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20130225 YEAR OF FEE PAYMENT : 4
KR100942642 B1	20140209	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR100942642 B1	20290808	PEXP		Calculated Patent Term Expiry	

Title: SAFETY CAP FOR VESSEL

Abstract: PURPOSE: A cap of a safety container is provided to enable a user to easily open the cap using physical strength by easily widening a rotational fixture and to prevent the rotational fixture from being completely separated from the upper part of the container. CONSTITUTION: A cap of a safety container comprises an opening(10) and a rotational fixture(20). A screw fastener groove(11) which is fixed to a screwing protrusion(2) included on the outer circumference of the container(1) is formed on the inner side of the opening. The rotational fixture is connected to the lower side of the opening and is fixed to the outside of the upper part of the container. A folded fixture piece(22), a breakaway prevention protrusion(23), and a wide open groove(24) are included more in the cap. The breakaway prevention protrusion is included on the inner side of the rotational fixture and is suspended on the protrusion which is formed in the outside of the container.

Classifications:

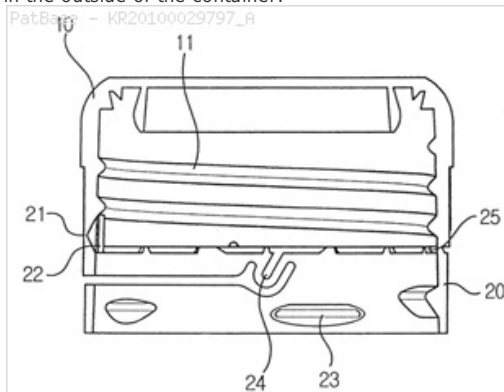
International (IPC 8-9): B65D41/34 B65D49/12 B65D50/00

B65D55/16 (Advanced/Invention);

B65D41/34 B65D49/12 B65D50/00 B65D55/16 (Advanced/Non-invention);

B65D41/34 B65D49/00 B65D50/00 B65D55/00 (Core/Invention)

CPC: B65D55/16 B65D41/34 B65D49/12 B65D50/00



Family:

Publication number	Publication date	Application number	Application date
KR20100029797 A	20100317	KR20100015061	20100219

Priority:

KR20100015061 20100219

Probable Assignee:

YANG DU YOUNG

Assignee(s): (std):

YANG DU YOUNG

Inventor(s): (std):

YANG DU YOUNG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR20100029797 A	20100317	LSPB	+	published / reissued	
KR20100029797 A	20100219	LSSES	A201	REQUEST FOR EXAMINATION	
KR20100029797 A	20120319	LSRV	-E601	DECISION TO REFUSE APPLICATION	

Title: STOPPER HAVING A SUBDIVIDED LINE OF WEAKNESS AND A METHOD OF FABRICATING SUCH A STOPPER

Abstract: The invention relates to a cap (1) that comprises a circular skirt (12), said cap including an irremovable portion (12-2) fixedly attached about the neck of a vessel (2) and a removable portion (12-1) removably attached to the neck, the irremovable and removable portions being separated by a first weakening line (20). In order to maintain the removable portion of the skirt attached to the irremovable portion of the skirt after the first opening, the skirt is provided with a second peripheral weakening line (34). It is also provided that the first weakening line extends less than 360 degrees, while the two ends (34A, 34B) of the second weakening line are located along the periphery of the skirt respectively between a first (28A) of the two ends of a linking portion of the skirt and the hasp (26-1) closest to said first end, and between the second end (28B) of the linking portion and the hasp (26-6) closest to said second end.

Classifications:

International (IPC 8-9): B29D1/00 B29D21/04 B29D22/00

B65D39/00 B65D41/00 B65D41/32 B65D41/34 B65D41/48

B65D43/00 B65D43/14 B65D47/00 B65D49/12 B65D51/00

B65D51/04 B65D55/16 (Advanced/Invention);

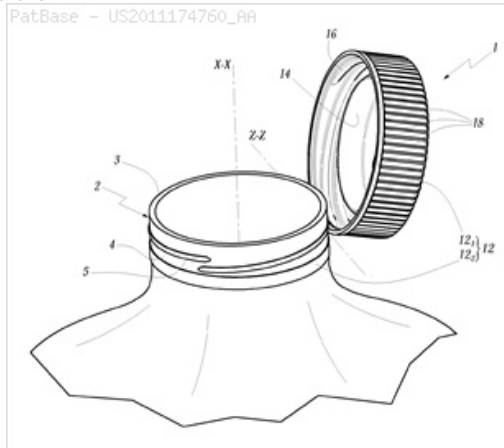
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B65D55/00 (Core/Invention)

CPC: B65D55/16 B65D41/3447 B65D41/48 B65D2101/0046

European: B65D41/34D1 B65D41/48 B65D55/16 L65D101/00A3D

US: 215/252 215/253 215/258 215/258S 215/306 220/836 220/837



Family:

Publication number	Publication date	Application number	Application date
CA2738388 AA	20100415	CA20092738388	20091008
CA2738388 C	20160719	CA20092738388	20091008
DE602009008536 D1	20120920	DE200960008536T	20091008
EP2331418 A1	20110615	EP20090755992	20091008
EP2331418 B1	20120725	EP20090755992	20091008
ES2390749 T3	20121116	ES20090755992T	20091008
FR2937016 A1	20100416	FR20080056842	20081009
FR2937016 B1	20101126	FR20080056842	20081009
MX2011003610 A1	20110510	MX20110003610	20091008
PT2331418 T	20121003	PT20090755992T	20091008
US2011174760 AA	20110721	US20090122118	20091008
US9010555 BB	20150421	US20090122118	20091008
WO10040961 A1	20100415	WO2009FR51921	20091008

Priority:

FR20080056842 20081009 EP20090755992 20091008 WO2009FR51921 20091008

Probable Assignee: TETRA LAVAL HOLDINGS AND FINANCE SA

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Assignee(s): TETRA LAVAL HOLDINGS AND FINANCE SA

Inventor(s): (std): LUZZATO MICHEL ; MEZERETTE JEROME

Inventor(s): MICHEL LUZZATO ; JEROME MEZERETTE

Agent(s): BENOIT AND COTE ASSOCIES INC; BENOIT AND COTE INC; MYON GERARD JEAN PIERRE; LEHMANN MARIA ISABEL; CABINET LAVOIX LYON; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; GRAND GUILLAUME 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 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 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 PE 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
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CA2738388 AA	20140912	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20140902
CA2738388 C	20160719	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2738388 C	20291008	PEXP		Calculated Patent Term Expiry	
EP2331418 A1	20110615	LSPB	+	published /	

EP2331418 A1	20110615	LSSES	+17P	reissued REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110321
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EP2331418 A1	20120718	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : TETRA LAVAL HOLDINGS & FINANCE S.A.
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EP2331418 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

LAPSED DATE : 20120725

EP2331418 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20121026
EP2331418 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130329	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130430	LSLE	-BERE	BE: LAPSED	PARTY TYPE : OWNER REF COUNTRY CODE : EP OWNER : TETRA LAVAL HOLDINGS & FINANCE S.A. EFFECTIVE DATE : 20121031
EP2331418 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725

EP2331418 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121031
EP2331418 B1	20130703	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20130426
EP2331418 B1	20130717	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2331418 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121031
EP2331418 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121008
EP2331418 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20121025
EP2331418 B1	20130822	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602009008536 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130426
EP2331418 B1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20140430	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT :

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121008
EP2331418 B1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SM NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
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EP2331418 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20131031
EP2331418 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20131031
EP2331418 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20091008
EP2331418 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120725
EP2331418 B1	20150908	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 7
EP2331418 B1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20151002 YEAR OF FEE PAYMENT : 7
EP2331418 B1	20160921	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 8
EP2331418 B1	20161230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160922 YEAR OF FEE PAYMENT : 8
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EP2331418 B1	20180228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20171004 YEAR OF FEE PAYMENT : 9
EP2331418 B1	20180228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20171103 YEAR OF FEE PAYMENT : 9
EP2331418 B1	20291008	PEXP		Calculated Patent Term Expiry	
ES2390749 T3	20121116	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2390749 T3	20291008	PEXP		Calculated Patent Term Expiry	
FR2937016 A1	20100416	LSPB	+	published / reissued	
FR2937016 B1	20101126	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2937016 B1	20140801	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20140630
FR2937016 B1	20281009	PEXP		Calculated Patent Term Expiry	
MX2011003610 A1	20110510	LSPB	+	published / reissued	
MX2011003610 A1	20131007	LSGT	+FG	GRANT OR REGISTRATION	
PT2331418 T	20121003	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2331418 T	20291008	PEXP		Calculated Patent Term Expiry	
US2011174760 AA	20110721	LSPB	+	published / reissued	
US2011174760 AA	20110331	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA LAVAL HOLDINGS & FINANCE S.A., SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:LUZZATO, MICHEL; MEZERETTE, JEROME; REEL/FRAME:026058/0134 EFFECTIVE DATE : 20110114
US9010555 BB	20150421	LSGT	+	granted / extensions (spc, cpc, pte)	

US9010555 BB	20150401	LSGT	PAT1	Patented Case	
US9010555 BB	20320119	PEXP		Calculated Patent Term Expiry (PTA 833 days)	
WO10040961 A1	20100415	LSPB	+	published / reissued	
WO10040961 A1	20110324	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2738388 COUNTRY OF REF DOCUMENT : CA
WO10040961 A1	20110331	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13122118 COUNTRY OF REF DOCUMENT : US
WO10040961 A1	20110411	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE