PatBase - Search results 28 September 2020
Search query (1): FT=(CLOSURE~ or locks~ and opening~ and TAMPER-EVIDENT~ and container~ and device~ and security~)
Results: 2875

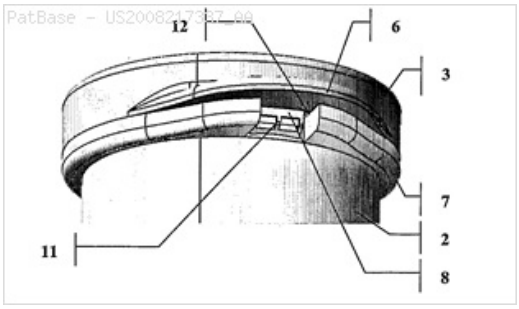
Search history

Search 1: FT=(CLOSURE~ or locks~ and opening~ and TAMPER-EVIDENT~ and container~ and device~ and security~) (Results 2875)

1) Family number: 34353131 (US2008217337 AA)

Title: **CONTAINER** WITH TAMPERPROOF SEAL

Abstract: A **container** with **tamper-evident** **device** includes an **open** packaging casing, a **closure** means for closing this **open** end, a connection means arranged between the **closure** means and the casing, and a **tamper-evident** **device** which is able to engage mechanically at the time of closing the **container** after filling. The **tamper-evident** **device** includes a breakable **locking** means equipped with a snap-fastening means, positioned in a reserved housing, the **locking** means having an integral tear-**open** hinge, and a retaining means located in the **closure** means capable of receiving the snap-fastening means during the arming of the **tamper-evident** **device**.



Classifications:
International (IPC 8-9): B23P19/04 B29D22/00 B65B31/02 B65B7/28 B65D41/32 B65D43/08 B65D43/16 B65D50/00 B65D50/04 B65D51/00 B65D51/04 B65D55/02
CPC: B65D2251/1025 B65D2401/10 B65D2401/15 B65D43/165 B65D55/024 Y10T29/53 B65D43/164
US: 220/266 220/796 220/810 29/700

Family:

Publication number	Publication date	Application number	Application date
AT532719 E	20111115	AT20060808185T	20060921
DE602006025768 D1	20120202	DE200660025768T	20060921
EP1981772 A1	20081022	EP20060808185	20060921
EP1981772 B1	20111109	EP20060808185	20060921
FR2890942 A1	20070323	FR20050009630	20050921
FR2890942 B1	20100409	FR20050009630	20050921
FR2890945 A1	20070323	FR20060005241	20060613
US2008217337 AA	20080911	US20060064732	20060921
WO07034084 A1	20070329	WO2006FR02166	20060921

Priority:

FR20050009630 20050921 FR20060005241 20060613 WO2006FR02166 20060921
EP20060808185 20060921

Probable Assignee: AIRSEC SOCIETE PAR ACTIONS SIMPLIFIEE

Assignee(s): (std): AIRSEC ; AIRSEC SOC PAR ACTIONS SIMPLIF ; AIRSEC SOC PAR ACTIONS SIMPLIFIEE ; BOIS DOMINIQUE ; RAULT STEPHANE

Assignee(s): AIRSEC (SOCIETE PAR ACTIONS SIMPLIFIEE) ; AIRSEC SOCIETE PAR ACTIONS SIMPLIFIEE ; CLARIANT PRODUCTION FRANCE SAS ; DEUTSCHE BANK TRUST CO AMERICAS

Inventor(s): (std): BOIS DOMINIQUE ; RAULT STEPHANE

Inventor(s): DOMINIQUE BOIS ; STEPHANE RAULT

Agent(s): CABINET PLASSERAUD; DENNISON SCHULTZ AND MACDONALD; HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; PLASSERAUD IP; SCHWEIGHART PETER

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT532719 E	20111115	LSGT	+	granted / extensions (spc, cpc, pte)	
AT532719 E	20260921	PEXP		Calculated Patent Term Expiry	
DE602006025768 D1	20130612	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	Owner: Clariant Production (France) S.A.S., Trosly Breuil, FR PartyType: Owner OldParty: Airsec S.A.S, Choisy le Roi, FR
EP1981772 A1	20081022	LSPB	+	published / reissued	
EP1981772 A1	20081022	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20080812
EP1981772 A1	20081022		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1981772 A1	20081231	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20081202
EP1981772 A1	20110511		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	

				(DELETED)	
EP1981772 A1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160818 Year of fee payment: 11 Country of Ref document: GB
EP1981772 B1	20111109	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1981772 B1	20111109		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1981772 B1	20111109	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D Text: NOT ENGLISH
EP1981772 B1	20111115	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP1981772 B1	20111207	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D Text: LANGUAGE OF EP DOCUMENT: FRENCH
EP1981772 B1	20120202	LSPB	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20120202 Ref country code: DE Ref document number: 602006025768 Ref legal event code: R096 Country of Ref document: DE
EP1981772 B1	20120222	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20111109 Ref country code: NL Ref legal event code: VDEP
EP1981772 B1	20120425	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	Effective date: 20111109 Ref country code: EP
EP1981772 B1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120309 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP1981772 B1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP1981772 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP1981772 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PL
EP1981772 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP1981772 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP1981772 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP1981772 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120309 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP1981772 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF

				[ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP1981772 B1	20120606	LSWD	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FD4D
EP1981772 B1	20120629	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP1981772 B1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120209 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP1981772 B1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
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EP1981772 B1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP1981772 B1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP1981772 B1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP1981772 B1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP1981772 B1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IT
EP1981772 B1	20120915	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20111109 Kind code of Ref document: T Ref country code: AT Ref document number: 532719 Ref legal event code: MK05 Country of Ref document: AT
EP1981772 B1	20121017	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20120810
EP1981772 B1	20121206	LSRE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20120810 Ref country code: DE Ref document number: 602006025768 Ref legal event code: R097 Country of Ref document: DE
EP1981772 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP1981772 B1	20130331	LSLE	-BERE	BE: LAPSED	Effective date: 20120930 Owner: AIRSEC (SOCIETE PAR ACTIONS SIMPLIFIEE)

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EP1981772 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120930 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP1981772 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120220 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: ES
EP1981772 B1	20130430	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP1981772 B1	20130612		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006025768 Ref legal event code: R082 Representative: HOFFMANN - EITLE, DE Country of Ref document: DE
EP1981772 B1	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP1981772 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120930 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP1981772 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120930 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP1981772 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120930 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP1981772 B1	20130801		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130612 PartyType: representative Ref country code: DE Ref document number: 602006025768 Ref legal event code: R082 Representative: HOFFMANN - EITLE, DE Country of Ref document: DE
EP1981772 B1	20130801		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130612 PartyType: representative Ref country code: DE Ref document number: 602006025768 Ref legal event code: R082 Representative: HOFFMANN - EITLE PATENT- UND RECHTSANWAELTE PA, DE Country of Ref document: DE
EP1981772 B1	20130801	LSAS	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130612 OldParty: FORMER OWNER: AIRSEC S.A.S, CHOISY LE ROI, FR Owner: CLARIANT PRODUCTION (FRANCE) S.A.S., FR PartyType: owner Ref country code: DE Ref document number: 602006025768 Ref legal event code: R081 Country of Ref document: DE
EP1981772 B1	20131002		REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: 732E Text: REGISTERED BETWEEN 20130905 AND 20130911
EP1981772 B1	20131011	LSAS	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130910 Owner: CLARIANT PRODUCTION (FRANCE) S.A.S., FR PartyType: owner Ref country code: FR Ref legal event code: TP
EP1981772 B1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR

EP1981772 B1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120921 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1981772 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20060921 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HU
EP1981772 B1	20150901	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 10 Country of Ref document: FR
EP1981772 B1	20160905	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 11 Country of Ref document: FR
EP1981772 B1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160825 Year of fee payment: 11 Country of Ref document: DE
EP1981772 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160905 Year of fee payment: 11 Country of Ref document: FR
EP1981772 B1	20171002	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 12
EP1981772 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170929 Year of fee payment: 12 Country of Ref document: GB
EP1981772 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171002 Year of fee payment: 12 Country of Ref document: FR
EP1981772 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171130 Year of fee payment: 12 Country of Ref document: DE
EP1981772 B1	20180928	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 13
EP1981772 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180928 Year of fee payment: 13 Country of Ref document: FR
EP1981772 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180928 Year of fee payment: 13 Country of Ref document: GB
EP1981772 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20181130 Year of fee payment: 13 Country of Ref document: DE
EP1981772 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200302 Year of fee payment: 14 Country of Ref document: GB
EP1981772 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200302 Year of fee payment: 14 Country of Ref document: DE
EP1981772 B1	20200630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200302 Year of fee payment: 14 Country of Ref document: FR
EP1981772 B1	20260921	PEXP		Calculated Patent Term Expiry	
FR2890942 A1	20070323	LSPB	+	published / reissued	
FR2890942 A1	20070323		SC	SEARCH COMPLETED	BOPI Date: 2007-12
FR2890942 B1	20100409	LSGT	+	granted / extensions	

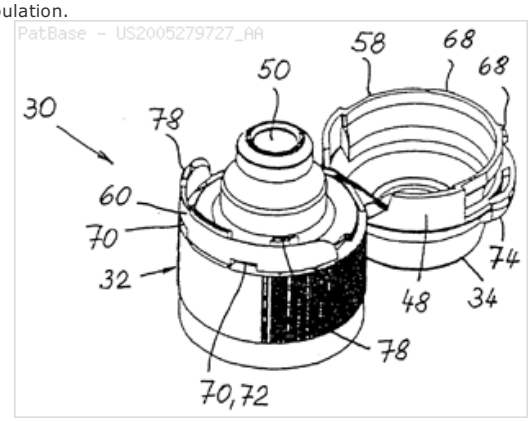
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FR2890942 B1	20110825	LSFE	+PLFP	Fee Payement	Payment date: 20110825 Year of fee payment: 7
FR2890942 B1	20121001	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2890942 B1	20130628	LSLE	-ST	NOTIFICATION OF LAPSE	Effective date: 20130531
FR2890942 B1	20130910		TO	Transmission totale de propriété	BOPI Date: 2013-41 Registered Number: 0196959
FR2890942 B1	20131011	LSAS	TP	TRANSMISSION OF PROPERTY	Effective date: 20130910 Owner: CLARIANT PRODUCTION (FRANCE) S.A.S., FR PartyType: owner
FR2890942 B1	20250921	PEXP		Calculated Patent Term Expiry	
FR2890945 A1	20070323	LSPB	+	published / reissued	
FR2890945 A1	20070525		SC	SEARCH COMPLETED	BOPI Date: 2007-21
FR2890945 A1	20080627	LSFE	+PLFP	Fee Payement	Payment date: 20080627 Year of fee payment: 3
FR2890945 A1	20090630	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2890945 A1	20100326	LSLE	-ST	NOTIFICATION OF LAPSE	Effective date: 20100226
US2008217337 AA	20080319	LSAS	AS	ASSIGNMENT	Owner: AIRSEC (SOCIETE PAR ACTIONS SIMPLIFIEE), FRANCE PartyType: owner Effective date: 20080303 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:RAULT, STEPHANE;BOIS, DOMINIQUE;REEL/FRAME:020711/0060
US2008217337 AA	20080911	LSPB	+	published / reissued	
US2008217337 AA	20110811	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: SECURITY AGREEMENT;ASSIGNOR:TEMPEL STEEL COMPANY;REEL/FRAME:026734/0665 Effective date: 20110811 Owner: DEUTSCHE BANK TRUST COMPANY AMERICAS, NEW YORK
US2008217337 AA	20111024	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2008217337 AA	20111024		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US2008217337 AA	20151027	LSAS	AS	ASSIGNMENT	Owner: TEMPEL STEEL COMPANY, ILLINOIS PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:DEUTSCHE BANK TRUST COMPANY AMERICAS, AS NOTEHOLDER COLLATERAL AGENT;REEL/FRAME:036896/0434 Effective date: 20151023
WO07034084 A1	20070329	LSPB	+	published / reissued	
WO07034084 A1	20070607		DPE2	REQUEST FOR PRELIMINARY EXAMINATION FILED BEFORE EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED FROM 20040101)	
WO07034084 A1	20070704		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO07034084 A1	20080131	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2006808185 Country of Ref document: EP
WO07034084 A1	20080319	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 12064732 Country of Ref document: US
WO07034084 A1	20080326	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE

2) Family number: 29779887 (US2005279727 AA)

Title: HINGED LID **CLOSURE** PROVIDED WITH A **TAMPER-EVIDENT** ELEMENT FOR A **CONTAINER** **CONTAINING** A FREE-FLOWING PRODUCT

Abstract: A swing-lid **closure** (30; 100; 200) for **containers**, having a **closure** body (32; 214) which, on its top side, has an annular shoulder (42; 108; 212) and a through-passage channel (38) which **opens** out in an outlet **opening** (50), having a swing lid (34; 114; 208) with a lid shell (48; 112; 216) of a hinge (56) can be pivoted between a closed position and an **open** position, having a radial depression (58; 118; 220) of the lid shell (48; 112; 216), which is provided on the front side of the swing lid (34; 114; 208) and extends over part of the circumference of the swing lid (34; 114; 208), having a tamperproof **securing** strip (60; 104; 204) which extends in the circumferential direction on the annular shoulder (42; 108; 212) of the **closure** body (32; 214) and has its bottom edge fastened on the annular shoulder (42; 108; 212) via predetermined breaking points (64) and, in the original closed position of the swing lid (34; 114; 208), projects up into the depression (58; 118; 220) of the lid shell (48; 112; 216) in an arcuate manner, and, for the purpose of forming a tear-off **opening** (66), the circumferential length of the depression (58; 118; 220) of the lid shell (48; 112; 216) is greater, at least in a circumferential direction of the lid shell (48; 112; 216), than the circumferential length of the tamperproof **securing** strip (60; 104; 204). In its position which indicates the intact state, the tamperproof **securing** strip (60; 104; 204) is **secured** by a **device** (68; 70; 72; 74; 76; 78; 80; 82; 106; 108; 110; 202; 206; 210) by means of which the tamperproof **securing** strip (60; 104; 204) is connected in a form-fitting and/or force-fitting manner to the swing lid (34; 114; 208). This results in the tamperproof **securing** strip being better safeguarded against manipulation.

Classifications:
International (IPC 8-9): B65D47/08 B65D47/36 B65D49/00 B65D49/12 B65D51/18 B65D51/20 B65D55/02 B65D55/06
International (IPC 1-7): B65D101/00 B65D47/08 B65D47/10 B65D49/12 B65D55/02 B65D55/06
CPC: B65D47/0804 B65D55/06
US: 215/237 215/253 220/259.1 222/541.5 222/541.6



Family:

Publication number	Publication date	Application number	Application date
AU2003232727 AA	20031124	AU20030232727	20030506
AU2003232727 BB	20070125	AU20030232727	20030506
AU2003232727 BH	20090730	AU20030232727	20030506
BRPI0310004 A	20050215	BR2003PI10004	20030506
BRPI0310004 B1	20140225	BR2003PI10004	20030506
CA2485422 AA	20041109	CA20032485422	20030506
CA2485422 C	20110308	CA20032485422	20030506
CN100333977 C	20070829	CN20038010367	20030506
CN1652981 A	20050810	CN20038010367	20030506
DE20207423 U1	20021002	DE20022007423U	20020510
DE50303489 D1	20060629	DE20035003489T	20030506
EP1503942 A1	20050209	EP20030749870	20030506
EP1503942 B1	20060524	EP20030749870	20030506
ES2265579 T3	20070216	ES20030749870T	20030506
IN01839KN2004 A	20060804	IN2004KN01839	20041202
IN238828 B	20100226	IN2004KN01839	20041202
JP2005529804 T2	20051006	JP20040503358T	20030506
JP4509772 B2	20100721	JP20040503358T	20030506
MXPA04011094 A1	20050214	MX2004PA11094	20030506
PL208680 B1	20110531	PL20030372362	20030506
PL372362 A1	20050725	PL20030372362	20030506
RU2004136184 A	20050810	RU20040136184	20030506
RU2312801 C2	20071220	RU20040136184	20030506
US2005279727 AA	20051222	US20050513547	20050622
WO03095323 A1	20031120	WO2003EP04738	20030506

Priority:
DE20022007423U 20020510 WO2003EP04738 20030506 DE20035003489T 20030506

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Inventor(s): EHKKEL' GERKHARD ; GERHARD JACKEL ; GERHARD JOCKEL ; GRASVAL'D MARTIN ; GRASWALD MARTIN JAECKEL GERHARD ; JACKEL GERHAND

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; SMART AND BIGGAR; WOOD PHILLIPS KATZ CLARK AND MORTIMER

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2003232727 AA	20031124	LSPB	+	published / reissued	
AU2003232727 BB	20070125	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2003232727 BB	20070524	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2003232727 BB	20230506	PEXP		Calculated Patent Term Expiry	
AU2003232727 BH	20090730		TH	CORRIGENDA	Text: IN VOL 18, NO 2, PAGE(S) 582 UNDER THE HEADING APPLICATIONS OPI - NAME INDEX UNDER THE NAME SEAQUIST-LOFFLER KUNSTSTOFFWERK GMBH, APPLICATION NO. 2003232727, UNDER INID (43) CORRECT THE PUBLICATION DATE TO READ 24 NOVEMBER 2003
AU2003232727 BH	20090730		TH	CORRIGENDA	Text: IN VOL 21, NO 4, PAGE(S) 480 UNDER THE HEADING APPLICATIONS ACCEPTED - NAME INDEX UNDER THE NAME SEAQUIST-LOFFLER KUNSTSTOFFWERK GMBH, APPLICATION NO. 2003232727, UNDER INID (43) CORRECT THE PUBLICATION DATE TO READ 24 NOVEMBER 2003
AU2003232727 BH	20141204	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
BRPI0310004 A	20050215	LSPB	+	published / reissued	
BRPI0310004 A	20120117	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI0310004 A	20131231	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI0310004 B1	20140225	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	Text: PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 25/02/2014, OBSERVADAS AS CONDICOES LEGAIS.
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BRPI0310004 B1	20240225	PEXP		Calculated Patent Term Expiry	
CA2485422 AA	20041109	LSPB	+	published / reissued	
CA2485422 AA	20080207	LSES	+EEER	EXAMINATION REQUEST	
CA2485422 C	20110308	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2485422 C	20230506	PEXP		Calculated Patent Term Expiry	
CN100333977 C	20070829	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100333977 C	20070829	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
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CN100333977 C	20230506	PEXP		Calculated Patent Term Expiry	
CN1652981 A	20050810	LSPB	+	published / reissued	
CN1652981 A	20050810	LSPB	+C06	PUBLICATION	
CN1652981 A	20051005		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
DE20207423 U1	20021002	LSGT	+	granted / extensions (spc, cpc, pte)	
DE20207423 U1	20021002	LSGT	R207	UTILITY MODEL SPECIFICATION	Effective date: 20021002
DE20207423 U1	20051027	LSGT	+R150	UTILITY MODEL MAINTAINED AFTER PAYMENT OF FIRST MAINTENANCE FEE AFTER THREE YEARS	Effective date: 20050819
DE20207423 U1	20080814	LSGT	+R151	UTILITY MODEL MAINTAINED AFTER PAYMENT OF SECOND MAINTENANCE FEE AFTER SIX YEARS	Effective date: 20080610
DE20207423 U1	20100819	LSGT	+R152	UTILITY MODEL MAINTAINED AFTER PAYMENT OF THIRD MAINTENANCE FEE AFTER EIGHT YEARS	Effective date: 20100611
DE20207423 U1	20120510	PEXP		Calculated Patent Term Expiry	
DE20207423 U1	20120531	LSLE	-R071	EXPIRY OF RIGHT	
DE20207423 U1	20120601	LSLE	-R071	EXPIRY OF RIGHT	
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DE50303489 D1	20070614	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE50303489 D1	20121108	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	Owner: Aptar Freyung GmbH, 94078 Freyung, DE PartyType: Owner OldParty: Seaquist-Löffler Kunststoffwerk GmbH, 94078 Freyung, DE
DE50303489 D1	20130103	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	Effective date: 20121108 Ref document number: 1503942 PartyType: owner OldParty: FORMER OWNER: SEAQUIST-LOEFFLER KUNSTSTOFFWERK GMBH, 94078 FREYUNG, DE Owner: APTAR FREYUNG GMBH, DE Country of Ref document: EP
DE50303489 D1	20130103	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	Owner: APTAR FREYUNG GMBH, DE PartyType: owner Effective date: 20121108 OldParty: FORMER OWNER: SEAQUIST-LOEFFLER KUNSTSTOFFWERK GMBH, 94078 FREYUNG, DE Ref document number: 1503942 Country of Ref document: EP
DE50303489 D1	20130103		R082	CHANGE OF REPRESENTATIVE	PartyType: representative Representative: BOEHMERT & BOEHMERT, DE Effective date: 20121108 Ref document number: 1503942 Country of Ref document: EP
DE50303489 D1	20130103		R082	CHANGE OF REPRESENTATIVE	PartyType: representative Representative: BOEHMERT & BOEHMERT, DE Effective date: 20121108 Ref document number: 1503942 Country of Ref document: EP
EP1503942 A1	20050209	LSPB	+	published / reissued	
EP1503942 A1	20050209	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20040929
EP1503942 A1	20050209		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR
EP1503942 A1	20050209		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL LT LV MK
EP1503942 A1	20050831		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	

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EP1503942 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160414 Year of fee payment: 14 Country of Ref document: ES
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EP1503942 A1	20160831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 14 Payment date: 20160524 Country of Ref document: IT
EP1503942 A1	20160831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160412 Year of fee payment: 14 Country of Ref document: FR
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EP1503942 B1	20060524		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: CZ DE ES FR GB IT
EP1503942 B1	20060524	LSGT	REG	REFERENCE TO A NATIONAL CODE	Text: NOT ENGLISH Ref country code: GB Ref legal event code: FG4D
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EP1503942 B1	20061222		+ET	FR: TRANSLATION FILED	
EP1503942 B1	20070216	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG2A Kind code of Ref document: T3 Ref country code: ES Ref document number: 2265579 Country of Ref document: ES
EP1503942 B1	20070502	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20070227
EP1503942 B1	20130103		REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE PartyType: representative Ref legal event code: R082 Effective date: 20121108 Ref document number: 50303489 Representative: BOEHMERT & BOEHMERT, DE Country of Ref document: DE
EP1503942 B1	20130103		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20121108 Ref country code: DE Ref legal event code: R082 PartyType: representative Ref document number: 50303489 Representative: BOEHMERT & BOEHMERT ANWALTSPARTNERSCHAFT MBB -, DE Country of Ref document: DE
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EP1503942 B1	20160412	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: PLFP Ref country code: FR

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EP1503942 B1	20170413	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Year of fee payment: 15 Ref legal event code: PLFP
EP1503942 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170503 Year of fee payment: 15 Country of Ref document: GB
EP1503942 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170413 Year of fee payment: 15 Country of Ref document: CZ
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EP1503942 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 16 Payment date: 20180613 Country of Ref document: DE
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EP1503942 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190531 Year of fee payment: 17 Country of Ref document: DE
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EP1503942 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190527 Year of fee payment: 17 Country of Ref document: IT
EP1503942 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 17 Payment date: 20190603 Country of Ref document: ES
EP1503942 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM	Payment date: 20190410 Year of fee payment: 17 Country of Ref document: FR

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EP1503942 B1	20230506	PEXP		Calculated Patent Term Expiry	
ES2265579 T3	20070216	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2265579 T3	20230506	PEXP		Calculated Patent Term Expiry	
IN01839KN2004 A	20060804	LSPB	+	published / reissued	
IN238828 B	20100226	LSGT	+	granted / extensions (spc, cpc, pte)	
IN238828 B	20241202	PEXP		Calculated Patent Term Expiry	
JP2005529804 T2	20051006	LSPB	+	published / reissued	
JP2005529804 T2	20060415	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Text: JAPANESE INTERMEDIATE CODE: A621 Effective date: 20060414
JP2005529804 T2	20071129		RD04	NOTIFICATION OF RESIGNATION OF POWER OF ATTORNEY	Effective date: 20071128 Text: JAPANESE INTERMEDIATE CODE: A7424
JP2005529804 T2	20080913		RD04	NOTIFICATION OF RESIGNATION OF POWER OF ATTORNEY	Effective date: 20080912 Text: JAPANESE INTERMEDIATE CODE: A7424
JP2005529804 T2	20080919		A977	REPORT ON RETRIEVAL	Effective date: 20080919 Text: JAPANESE INTERMEDIATE CODE: A971007
JP2005529804 T2	20090304	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Text: JAPANESE INTERMEDIATE CODE: A131 Effective date: 20090303
JP2005529804 T2	20090604		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Text: JAPANESE INTERMEDIATE CODE: A601 Effective date: 20090603
JP2005529804 T2	20090611		A602	WRITTEN PERMISSION OF EXTENSION OF TIME	Text: JAPANESE INTERMEDIATE CODE: A602 Effective date: 20090610
JP2005529804 T2	20090704		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Text: JAPANESE INTERMEDIATE CODE: A601 Effective date: 20090703
JP2005529804 T2	20090713		A602	WRITTEN PERMISSION OF EXTENSION OF TIME	Effective date: 20090710 Text: JAPANESE INTERMEDIATE CODE: A602
JP2005529804 T2	20090804		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Effective date: 20090803 Text: JAPANESE INTERMEDIATE CODE: A601
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JP2005529804 T2	20090828	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20090827 Text: JAPANESE INTERMEDIATE CODE: A523
JP2005529804 T2	20100330	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2005529804 T2	20100407	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	Text: JAPANESE INTERMEDIATE CODE: A01 Effective date: 20100406
JP2005529804 T2	20100408	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	Text: JAPANESE INTERMEDIATE CODE: A01
JP2005529804 T2	20100510	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	Effective date: 20100428 Text: JAPANESE INTERMEDIATE CODE: A61
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JP4509772 B2	20230506	PEXP		Calculated Patent Term Expiry	
MXPA04011094 A1	20050214	LSPB	+	published / reissued	
MXPA04011094 A1	20071105	LSGT	+FG	GRANT OR REGISTRATION	
PL208680 B1	20110531	LSGT	+	granted / extensions (spc, cpc, pte)	
PL372362 A1	20050725	LSPB	+	published / reissued	
RU2004136184 A	20050810	LSPB	+	published / reissued	
RU2312801 C2	20071220	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2312801 C2	20230506	PEXP		Calculated Patent Term Expiry	
US2005279727 AA	20050622	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:GRASWALD, MARTIN;JACKEL, GERHARD F. K.;REEL/FRAME:016818/0568 PartyType: owner Effective date: 20041104 Owner: SEAQUIST-LOFFLER KUNSTSTOFFWERK, GERMANY
US2005279727 AA	20051222	LSPB	+	published / reissued	
US2005279727 AA	20100115	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2005279727 AA	20100115		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
WO03095323 A1	20031120	LSPB	+	published / reissued	
WO03095323 A1	20031120		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
WO03095323 A1	20031120		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AM AT AZ BE BF BG BJ BY CF CG CH CI CM CY CZ DE DK EE ES FI FR GA GB GH GM GN GQ GR GW HU IE IT KE KG KZ LS LU MC MD ML MR MW MZ NE NL PT RO RU SD SE SI SK SL SN SZ TD TG TJ TM TR TZ UG ZM ZW
WO03095323 A1	20040108		DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO03095323 A1	20040114		121	EP: THE EPO HAS BEEN INFORMED BY	

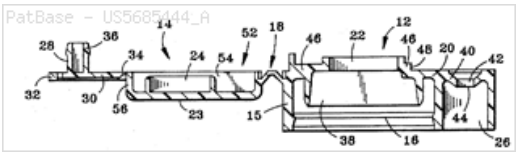
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WO03095323 A1	20040929	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2003749870 Country of Ref document: EP
WO03095323 A1	20041105	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 372362 Country of Ref document: PL
WO03095323 A1	20041108	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 20038103672 Country of Ref document: CN
WO03095323 A1	20041109	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2485422 Country of Ref document: CA
WO03095323 A1	20041109	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2004503358 Country of Ref document: JP
WO03095323 A1	20041109	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: PA/A/2004/011094 Country of Ref document: MX
WO03095323 A1	20041116	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2003232727 Country of Ref document: AU
WO03095323 A1	20041202	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1839/KOLNP/2004 Country of Ref document: IN
WO03095323 A1	20041210	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2004136184 Kind code of Ref document: A Country of Ref document: RU
WO03095323 A1	20050209	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 2003749870 Country of Ref document: EP
WO03095323 A1	20050622	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 10513547 Country of Ref document: US
WO03095323 A1	20060524	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 2003749870 Country of Ref document: EP

3) Family number: 8781612 (US5685444 A)

Title: **Tamper-evident** hinged **closure** cap construction

Abstract: A **tamper-evident** **closure** cap construction having a cap body part for attachment to a **container** neck, a **closure** cap part, and a hinge connecting the **closure** cap part to the cap body part. The latter has an upper discharge **opening**, and the **closure** cap part is movable between a closed, sealing position covering the discharge **opening**, and an **open**, discharge position wherein the **closure** cap part is removed from the discharge **opening**. There are selectively manually operable **locking** components for **locking** the **closure** cap part in the closed, sealing position. The manually operable **locking** components have a first position corresponding to a closed, but unlocked condition of the **closure** cap part, and a second position corresponding to a closed and **locked** condition of the **closure** cap part. The components, once **locked** manually, are permanently retained in the second position so as to prevent tamper-type removal of the **closure** cap part from the cap body part.

Classifications:
International (IPC 8-9): B65D47/08 B65D55/02
International (IPC 1-7): B65D41/32
CPC: B65D47/0838 B65D55/024
US: 215/237 215/250 215/253



Family:

Publication number	Publication date	Application number	Application date
AU199671629 A1	19970409	AU19960071629	19960919
US5685444 A	19971111	US19950530419	19950919
WO9711004 A1	19970327	WO1996US15099	19960919

Priority:
US19950530419 19950919 WO1996US15099 19960919

Probable Assignee: STULL TECHNOLOGIES INC
Assignee(s): (std): STULL CLOSURE TECHNOLOGIES INC ; VALLEY JOSEPH P
Assignee(s): CENTURY SERVICES INC ; GREYSTONE BUSINESS CREDIT II LLC ; STULL TECHNOLOGIES INC
Inventor(s): (std): VALLEY JOSEPH P
Inventor(s): JOSEPH P VALLEY
Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199671629 A1	19970409	LSPB	+	published / reissued	
US5685444 A	19951113	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:VALLEY, JOSEPH P.;REEL/FRAME:007718/0220 Owner: STULL CLOSURE TECHNOLOGIES, INC., NEW JERSEY Effective date: 19951020 PartyType: owner
US5685444 A	19971111	LSGT	+	granted / extensions (spc, cpc, pte)	
US5685444 A	20010605		REMI	MAINTENANCE FEE REMINDER MAILED	
US5685444 A	20011113	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5685444 A	20011218	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5685444 A	20011218	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5685444 A	20020115	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20011111
US5685444 A	20050421	LSAS	AS	ASSIGNMENT	OldParty: SECURITY AGREEMENT;ASSIGNORS:VALLEY, JOE;STULL, SR., GENE;STULL, JR., GENE;AND OTHERS;REEL/FRAME:015918/0642 PartyType: owner Effective date: 20050211 Owner: CENTURY SERVICES, INC., CANADA
US5685444 A	20070821	LSAS	AS	ASSIGNMENT	Effective date: 20070810

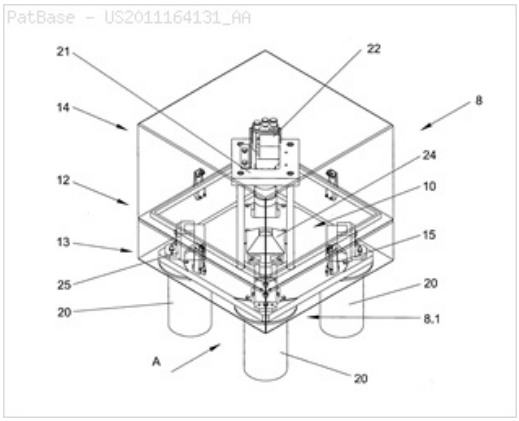
					PartyType: owner OldParty: RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY;ASSIGNOR:CENTURY SERVICES, INC.;REEL/FRAME:019725/0231 Owner: STULL TECHNOLOGIES, INC., NEW JERSEY
US5685444 A	20071017	LSAS	AS	ASSIGNMENT	Effective date: 20071017 Owner: GREYSTONE BUSINESS CREDIT II LLC, NEW YORK OldParty: SECURITY AGREEMENT;ASSIGNOR:STULL TECHNOLOGIES, INC.;REEL/FRAME:019974/0046 PartyType: owner
US5685444 A	20071017	LSAS	AS	ASSIGNMENT	Owner: GREYSTONE BUSINESS CREDIT II LLC,NEW YORK Effective date: 20071017 OldParty: SECURITY AGREEMENT;ASSIGNOR:STULL TECHNOLOGIES, INC.;REEL/FRAME:019974/0046 PartyType: owner
US5685444 A	20150919	PEXP		Calculated Patent Term Expiry	
WO9711004 A1	19970327	LSPB	+	published / reissued	
WO9711004 A1	19970327		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN
WO9711004 A1	19970327		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AT BE BF BJ CF CG CH CI CM DE DK ES FI FR GA GB GN GR IE IT KE LS LU MC ML MR MW NE NL PT SD SE SN SZ TD TG UG
WO9711004 A1	19970605		DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO9711004 A1	19970716		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO9711004 A1	19980723	LSWD	REG	REFERENCE TO NATIONAL CODE	Ref country code: DE Ref legal event code: 8642
WO9711004 A1	19990319	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: CA
WO9711004 A1	19990407	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Ref country code: WO

4) Family number: 45941675 (US2011164131 AA)

Title: METHOD AND INSPECTION **DEVICE** FOR TESTING **CONTAINERS**

Abstract: The invention relates to a method for testing bottles or the like **containers** (1) filled with a bulk material and mechanically closed by means of a **container** **closure** (2), the **container** **closures** (2) each comprising an original **security** ring (4) held on said **container** (1) in the closed state thereof in an interlocking and/or force-fit manner, such that **opening** the **container** (1) is possible only by separating and/or destroying the originality **security** ring (4), characterised in that the **containers** (1) are tested by means of at least one optoelectronic sensor system (10) after filling and closing for intactness of the originality **security** element (4).

Classifications:
International (IPC 8-9): B65B57/00 B67B3/00 B67B3/26 B67C3/02 B67C3/06 G01N21/88 G01N21/90 H04N7/18
International (IPC 1-7): B67B3/26
CPC: B67B3/262 G01N21/90
US: 348/127 348/127P 348/145 348/E7.085 348/E70.85S



Family:

Publication number	Publication date	Application number	Application date
CN102186764 A	20110914	CN200980141801	20091127
CN102186764 B	20140212	CN200980141801	20091127
DE102008062385 A1	20100708	DE200810062385	20081217
DE102008062385 B4	20130117	DE200810062385	20081217
DE102008062385 C5	20161020	DE200810062385	20081217
DE502009012387 D1	20160519	DE200950012387T	20091127
EP2379439 A1	20111026	EP20090771505	20091127
EP2379439 B1	20160406	EP20090771505	20091127
EP2379439 B2	20200422	EP20090771505	20091127
IN01130KN2011 A	20110701	IN2011KN01130	20110315
IN334676 B	20200320	IN2011KN01130	20110315
PL2379439 T3	20170131	PL20090771505T	20091127
PT2379439 T	20160606	PT20090771505T	20091127
RU2478560 C2	20130410	RU20110129665	20091127
TR201606182 T4	20160621	TR20160006182T	20091127
US2011164131 AA	20110707	US20090063475	20091127
US8937656 BB	20150120	US20090063475	20091127
WO10075918 A1	20100708	WO2009EP08462	20091127

Priority:
DE200810062385 20081217 WO2009EP08462 20091127 EP20090771505 20091127

Probable Assignee: KHS GMBH

Assignee(s): (std): BOECKER HORST ; HERRMANN JUERGEN ; KHS AG ; KHS GMBH ; KKHS GMBKH ; WIEMER HEINRICH

Inventor(s): (std): BEKER KHORST ; BOECKER HORST ; HEINRICH WIEMER ; HERRMANN JUERGEN ; HORST BOECKER ; JUERGEN HERRMANN ; KHERMANN JURGEN ; VIMER KHAJNRIKH ; WIEMER HEINRICH

Inventor(s): BCKER HORST ; HERRMANN JRGEN

Agent(s): KALKOFF AND PARTNER PATENTANWAELTE PARTMBB; OCCHIUTI AND ROHLICEK LLP; YESIM METIN

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
CN102186764 A	20110914	LSPB	+	published / reissued	
CN102186764 A	20110914	LSPB	+C06	PUBLICATION	
CN102186764 A	20111102		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN102186764 B	20140212	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102186764 B	20140212	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	

CN102186764 B	20291127	PEXP		Calculated Patent Term Expiry	
DE102008062385 A1	20100708	LSPB	+	published / reissued	
DE102008062385 A1	20100708	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE102008062385 A1	20101028	LSAS	8127	NEW PERSON/NAME/ADDRESS OF THE APPLICANT	Owner: KHS GMBH, 44143 DORTMUND, DE PartyType: owner
DE102008062385 A1	20110225	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102008062385 A1	20120918	LSGT	+R018	GRANT DECISION BY EXAMINATION SECTION/EXAMINING DIVISION	
DE102008062385 B4	20130117	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102008062385 B4	20130415	LSOP	-R026	OPPOSITION FILED AGAINST PATENT	
DE102008062385 B4	20130801	LSOP	-R026	OPPOSITION FILED AGAINST PATENT	Effective date: 20130415
DE102008062385 B4	20160805	LSRE	R034	DECISION OF EXAMINING DIVISION/FEDERAL PATENT COURT MAINTAINING PATENT IN LIMITED FORM NOW FINAL	
DE102008062385 B4	20281217	PEXP		Calculated Patent Term Expiry	
DE102008062385 C5	20161020	LSRE	+R206	AMENDED PATENT SPECIFICATION	
DE502009012387 D1	20161212	LSOP	-R026	OPPOSITION FILED AGAINST PATENT	
EP2379439 A1	20111026	LSPB	+	published / reissued	
EP2379439 A1	20111026	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20110718
EP2379439 A1	20111026		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT 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 SE SI SK SM TR
EP2379439 A1	20120328		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP2379439 A1	20151125	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20151028
EP2379439 B1	20160406	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2379439 B1	20160406		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT 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 SE SI SK SM TR
EP2379439 B1	20160406	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D Text: NOT ENGLISH
EP2379439 B1	20160415	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP2379439 B1	20160415	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160415 Kind code of Ref document: T Ref country code: AT Ref document number: 787597 Ref legal event code: REF Country of Ref document: AT
EP2379439 B1	20160504	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D Text: LANGUAGE OF EP DOCUMENT: GERMAN
EP2379439 B1	20160519	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 502009012387 Ref legal event code: R096 Country of Ref document: DE
EP2379439 B1	20160606		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160531 Ref country code: PT Ref legal event code: SC4A Text: AVAILABILITY OF NATIONAL TRANSLATION
EP2379439 B1	20160810		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160406 Ref country code: NL Ref legal event code: MP

EP2379439 B1	20160810	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: LT Ref legal event code: MG4D
EP2379439 B1	20160930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP2379439 B1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160806 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP2379439 B1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160706 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP2379439 B1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2379439 B1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP2379439 B1	20161118	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 8 Country of Ref document: FR
EP2379439 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160707 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP2379439 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP2379439 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR
EP2379439 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP2379439 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: ES
EP2379439 B1	20161212	LSOP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 502009012387 Ref legal event code: R026 Country of Ref document: DE
EP2379439 B1	20170118	LSOP	-26	OPPOSITION FILED	Effective date: 20161212 Opponent: KRONES AG PartyType: opponent
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EP2379439 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161122 Year of fee payment: 8 Country of Ref document: GB
EP2379439 B1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20161130 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP2379439 B1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SM
EP2379439 B1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161125 Year of fee payment: 8 Country of Ref document: PT
EP2379439 B1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161021 Year of fee payment: 8 Country of Ref document: PL
EP2379439 B1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161123 Year of fee payment: 8 Country of Ref document: IT
EP2379439 B1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161121 Year of fee payment: 8 Country of Ref document: AT
EP2379439 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161116 Year of fee payment: 8 Country of Ref document: TR
EP2379439 B1	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP2379439 B1	20170630	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP2379439 B1	20170731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT	Lapsed date: 20161130 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI

				INFORMATION FROM NATIONAL OFFICE TO EPO]	
EP2379439 B1	20170731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20161130 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP2379439 B1	20170823	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP2379439 B1	20170929	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20161130 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP2379439 B1	20171121	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 9
EP2379439 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20161127 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP2379439 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171123 Year of fee payment: 9 Country of Ref document: TR
EP2379439 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171121 Year of fee payment: 9 Country of Ref document: FR
EP2379439 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171121 Year of fee payment: 9 Country of Ref document: DE
EP2379439 B1	20180131		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20161130 Ref country code: BE Ref legal event code: MM
EP2379439 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171123 Year of fee payment: 9 Country of Ref document: PT
EP2379439 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171123 Year of fee payment: 9 Country of Ref document: GB
EP2379439 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171121 Year of fee payment: 9 Country of Ref document: AT
EP2379439 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171124 Year of fee payment: 9 Country of Ref document: IT
EP2379439 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171023 Year of fee payment: 9 Country of Ref document: PL
EP2379439 B1	20180531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091127 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO Country of Ref document: HU
EP2379439 B1	20180531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP2379439 B1	20180629	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE

				NATIONAL OFFICE TO EPO]	PRESCRIBED TIME-LIMIT Country of Ref document: MK
EP2379439 B1	20180629	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MC
EP2379439 B1	20180731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP2379439 B1	20180928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160406 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MT
EP2379439 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20181120 Year of fee payment: 10 Country of Ref document: DE
EP2379439 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20181126 Year of fee payment: 10 Country of Ref document: IT
EP2379439 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20181123 Year of fee payment: 10 Country of Ref document: FR
EP2379439 B1	20190715	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20181127 Kind code of Ref document: T Ref country code: AT Ref document number: 787597 Ref legal event code: MM01 Country of Ref document: AT
EP2379439 B1	20190724	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20181127 Ref country code: EP
EP2379439 B1	20190731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190527 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PT
EP2379439 B1	20190816	LSAL	APBM	APPEAL REFERENCE RECORDED	Text: ORIGINAL CODE: EPIDOSNREFNO
EP2379439 B1	20190816	LSAL	APBP	DATE OF RECEIPT OF NOTICE OF APPEAL RECORDED	Text: ORIGINAL CODE: EPIDOSNNOA2O
EP2379439 B1	20190817	LSAL	APAH	APPEAL REFERENCE MODIFIED	Text: ORIGINAL CODE: EPIDOSCREFNO
EP2379439 B1	20191008	LSAL	APBU	APPEAL PROCEDURE CLOSED	Text: ORIGINAL CODE: EPIDOSNNOA9O
EP2379439 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20181127 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: AT
EP2379439 B1	20191120	LSAS	RAP2	RIGHTS OF A PATENT TRANSFERRED	Owner: KHS GMBH PartyType: owner
EP2379439 B1	20191231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20181127 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GB
EP2379439 B1	20200131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20191121 Year of fee payment: 11 Country of Ref document: DE
EP2379439 B1	20200228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20191128 Year of fee payment: 11 Country of Ref document: IT

EP2379439 B1	20200228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20191120 Year of fee payment: 11 Country of Ref document: FR
EP2379439 B1	20291127	PEXP		Calculated Patent Term Expiry	
EP2379439 B2	20200422	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2379439 B2	20200422	LSRE	27A	PATENT MAINTAINED IN AMENDED FORM	Effective date: 20200422
EP2379439 B2	20200422		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B2 Country of Ref document: AT 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 SE SI SK SM TR
EP2379439 B2	20200422	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 502009012387 Ref legal event code: R102 Ref country code: DE Country of Ref document: DE
EP2379439 B2	20200501	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20181127 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PL
EP2379439 B2	20291127	PEXP		Calculated Patent Term Expiry	
IN01130KN2011 A	20110701	LSPB	+	published / reissued	
IN334676 B	20200320	LSGT	+	granted / extensions (spc, cpc, pte)	
IN334676 B	20310315	PEXP		Calculated Patent Term Expiry	
PL2379439 T3	20170131	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2379439 T	20160606	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2379439 T	20291127	PEXP		Calculated Patent Term Expiry	
RU2478560 C2	20130410	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2478560 C2	20291127	PEXP		Calculated Patent Term Expiry	
TR201606182 T4	20160621	LSGT	+	granted / extensions (spc, cpc, pte)	
TR201606182 T4	20291127	PEXP		Calculated Patent Term Expiry	
US2011164131 AA	20110707	LSPB	+	published / reissued	
US2011164131 AA	20141230	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US8937656 BB	20110325	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:WIEMER, HEINRICH;BOCKER, HORST;HERRMANN, JURGEN;SIGNING DATES FROM 20110315 TO 20110321;REEL/FRAME:026021/0849 Owner: KHS GMBH, GERMANY PartyType: owner
US8937656 BB	20141230	LSGT	PAT1	Patented Case	
US8937656 BB	20150120	LSGT	+	granted / extensions (spc, cpc, pte)	
US8937656 BB	20180711	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 4
US8937656 BB	20320808	PEXP		Calculated Patent Term Expiry (PTA 985 days)	
WO10075918 A1	20091127	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200980141801.7 Country of Ref document: CN
WO10075918 A1	20100708	LSPB	+	published / reissued	
WO10075918 A1	20100825		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 09771505 Country of Ref document: EP
WO10075918 A1	20110308	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2009771505 Country of Ref document: EP

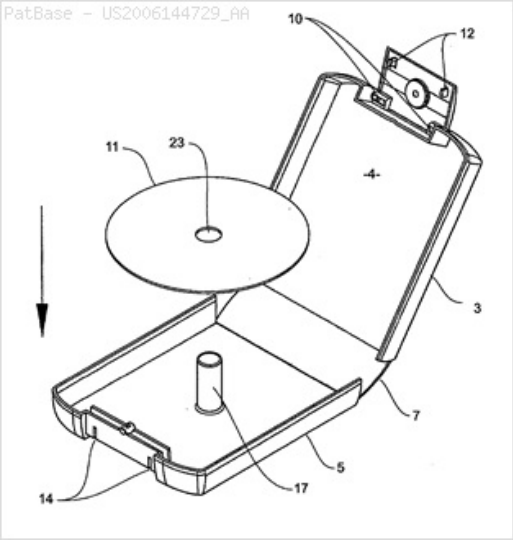
WO10075918 A1	20110311	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 13063475 Country of Ref document: US
WO10075918 A1	20110315	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1130/KOLNP/2011 Country of Ref document: IN
WO10075918 A1	20110718	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2011129665 Country of Ref document: RU

5) Family number: 33100287 (US2006144729 AA)

Title: STORAGE CASE

Abstract: A disc storage case for **containing** one or more media storage discs. The case having an upper **closure** member and a lower **closure** member coupled by a hinge to be pivotally movable between a closed condition, to define therebetween an internal storage space within which the discs can be retained, and an **open** condition, to expose the internal storage space to allow access to the discs. The case includes at least one disc retaining member disposed from either the lower **closure** member or upper **closure** member and provided to be within the internal storage space to restrict lateral movement of the one or more discs. There is also a latch to operate across a junction of the upper and lower **closure** members to hold, when in a latching condition, the upper and lower **closure** members together when in the closed condition. A **tamper evident locking device** is present to maintain the latch in the latching condition, the **tamper evident locking device** including a frangible zone to allow severing of said **tamper evident locking device** to allow release of the latch from the latching condition.

Classifications:
International (IPC 8-9): B65D55/00 B65D85/30 G11B23/03
CPC: G11B33/0427 G11B33/045
US: 206/308.1 G9B/33.011 G9B/33.015



Family:

Publication number	Publication date	Application number	Application date
CN1801381 A	20060712	CN200510098613	20050905
US2006144729 AA	20060706	US20050030269	20050106

Priority:

US20050030269 20050106

Probable Assignee: FORWARD ELECTRONICS MFG CO LTD

Assignee(s): (std): FOWARD ELECTRONICS MFG CO ; FOWARD ELECTRONICS MFG COMPANY

Assignee(s): FORWARD ELECTRONICS MFG ; FORWARD ELECTRONICS MFG CO LTD ; FOWARD ELECTRONICS MANUFACTURING COMPANY LIMITED ; FOWARD ELECTRONICS MFG CO LTD

Inventor(s): (std): CHEUNG CHUNG F

Inventor(s): CHEUNG CHUNG

Agent(s): OSTROLENK FABER GERB AND SOFFEN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN1801381 A	20060712	LSPB	+	published / reissued	
CN1801381 A	20060712	LSPB	+C06	PUBLICATION	
CN1801381 A	20080924	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
US2006144729 AA	20050106	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:CHEUNG, CHUNG FAI;REEL/FRAME:016159/0055 Effective date: 20041217 Owner: FORWARD ELECTRONICS MANUFACTURING COMPANY LIMITED, PartyType: owner
US2006144729 AA	20060706	LSPB	+	published / reissued	
US2006144729 AA	20081010	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2006144729 AA	20081010		-STCB	INFORMATION ON STATUS:	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE

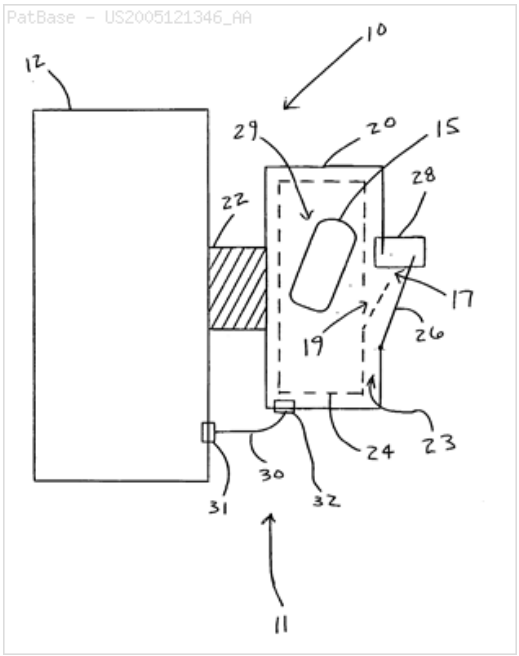
	APPLICATION DISCONTINUATION	ACTION

6) Family number: 31974683 (US2005121346 AA)

Title: MOUNTABLE **CONTAINER** APPARATUS FOR PATIENT TRANSPORT **DEVICE** AND METHODS REGARDING SAME

Abstract: Apparatus and methods for use with a transport **device** (e.g., a stretcher) include a closable outer **container** mountable to the transport **device** and a single use inner **container** configured to be retained within the outer **container**. The inner **container** defines an **opening** through which objects associated with a person may be inserted into the single use inner **container**. The single use inner **container** further includes a **tamper evident** **closure** for use in sealing the **opening** thereof.

Classifications:
International (IPC 8-9): A61G A61L15/00 B60R9/00 B65D5/00
International (IPC 1-7): A61G A61L15/00
CPC: A45F5/02 A61G1/04 A61G5/10 A61G7/05
US: 206/438



Family:

Publication number	Publication date	Application number	Application date
US2005121346 AA	20050609	US20040002941	20041202
WO05055909 A2	20050623	WO2004US40583	20041203
WO05055909 A3	20070329	WO2004US40583	20041203

Priority:
US20030527375P 20031205 US20040616996P 20041008 US20040002941 20041202

Probable Assignee: PHS WEST INC
Assignee(s): (std): CUMMINGS DANIEL L ; CUMMINGS JACOB D ; OTT BEVERLY J ; PHS WEST INC
Assignee(s): PHS WEST INCORPORATED
Inventor(s): (std): CUMMINGS DANIEL L ; CUMMINGS JACOB D ; OTT BEVERLY J
Inventor(s): CUMMINGS DANIEL ; CUMMINGS JACOB ; OTT BEVERLY
Agent(s): MUETING RAASCH AND GEBHARDT PA
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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2005121346 AA	20041202	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:CUMMINGS, DANIEL L.;CUMMINGS, JACOB D.;OTT, BEVERLY J.;REEL/FRAME:016055/0097;SIGNING DATES FROM 20041129 TO 20041201 Owner: PHS WEST INCORPORATED, MINNESOTA PartyType: owner
US2005121346 AA	20050609	LSPB	+	published / reissued	
US2005121346 AA	20140129	LSWD	ABD1	Abandoned -- After Examiner's Answer or Board of Appeals Decision	
US2005121346 AA	20140129		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- AFTER EXAMINER'S ANSWER OR BOARD OF APPEALS DECISION

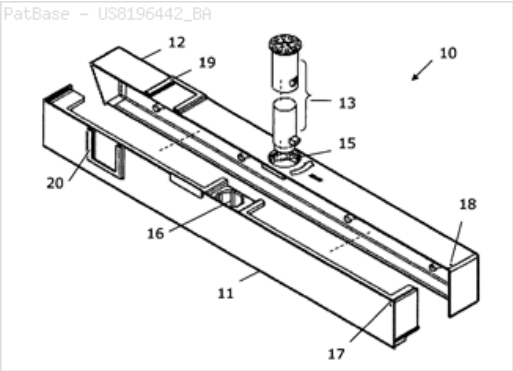
WO05055909 A2	20050623	LSPB	+	published / reissued	
WO05055909 A2	20050623		+AK	DESIGNATED STATES	Kind code of Ref document: A2 Country of Ref document: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
WO05055909 A2	20050623		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A2 Country of Ref document: AM AT AZ BE BF BG BJ BW BY CF CG CH CI CM CY CZ DE DK EE ES FI FR GA GB GH GM GN GQ GR GW HU IE IS IT KE KG KZ LS LT LU MC MD ML MR MW MZ NA NE NL PL PT RO RU SD SE SI SK SL SN SZ TD TG TJ TM TR TZ UG ZM ZW
WO05055909 A2	20050817		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO05055909 A2	20070117	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Ref country code: WO

7) Family number: 51278693 (US8196442 BA)

Title: REUSABLE TAMPER INDICATING BAG **CLOSURE**

Abstract: A reusable tamper indicating bag **closure** for transporting most items in a bag such as documents and portable computing **devices** including laptops, PDAs, mobile phones, iPods(R)... etc. that would appeal to a broad spectrum of customers including the individual buyer, the business user, and the government user. The **tamper-evident** bag **closure** is defined by a lid with multiple hasps and a base with knobs that attach to the bag and is **secured** by a **locking** mechanism placed through an **opening** on the base and inserted within an insertion aperture such that **locking** the **lock** mechanism causes the lid to slide into alignment with the base and engages the plurality of hasps with the plurality of knobs thus **securing** the bag. The bag **closure** also has several tamper indicating features including the use of tamper indicating markers, wire seals and tamper indicating labels.

Classifications:
International (IPC 8-9): A45C13/10
CPC: A45C13/1076 B65D2401/00 B65D33/16 B65D33/1658 B65D33/34 Y02W30/80 Y10T24/34 Y10T70/40 Y10T70/5035 Y10T70/5044
US: 24/305 70/14 70/64 70/66



Family:

Publication number	Publication date	Application number	Application date
US8196442 BA	20120612	US20100661193	20100224

Priority:
US20100661193 20100224

Probable Assignee: US DIRECTOR NAT SECURITY AGENCY

Assignee(s): (std): LASSEN DAVID ; PRIBYL CHARLES F ; US DIRECTOR NAT SECURITY AGENCY

Assignee(s): DIRECTOR NATIONAL SECURITY AGENCY AS US GOV ; DIRECTOR NATIONAL SECURITY AGENCY US GOV AS ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE DIRECTOR NATIONAL SECURITY AGENCY

Inventor(s): (std): LASSEN DAVID ; PRIBYL CHARLES F

Agent(s): ROSHNI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US8196442 BA	20120523	LSGT	PAT1	Patented Case	
US8196442 BA	20120523	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US8196442 BA	20120612	LSGT	+	granted / extensions (spc, cpc, pte)	
US8196442 BA	20151102	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US8196442 BA	20191029	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 8
US8196442 BA	20301024	PEXP		Calculated Patent Term Expiry (PTA 242 days)	

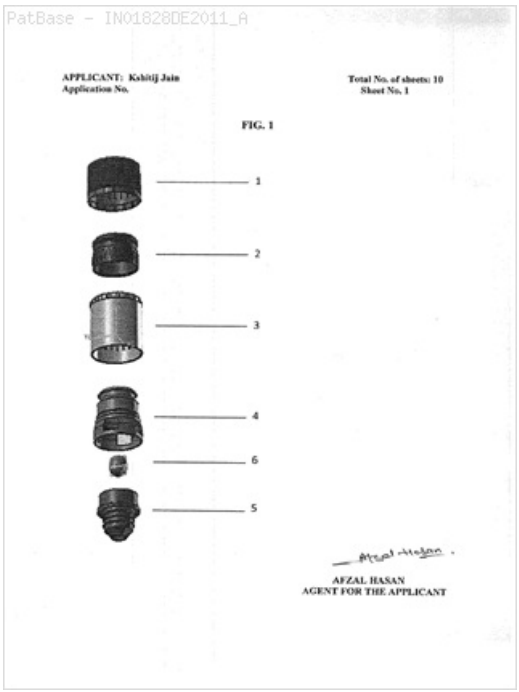
8) Family number: 52672269 (IN01828DE2011 A)

Title: A **TAMPER EVIDENT** **SECURITY** **CLOSURE** **DEVICE**

Abstract: A **tamper evident** **security** **closure** **device** A **tamper evident** **security** **closure** **device** for bottles and bottle like **containers** comprising an outer top (1), an inner top (2), a **security** ring (8), a cylindrical bottom (3), a pourer body (4) and a stopper body (5). The pourer body comprises extended sleeve (22) with inwardly projected **locking** teeth (23). Multiple teeth (23) on the sleeve (22) result in a jaw like structure to irreversibly **lock** the pourer body on the neck of the bottle/ bottle like **container**. Due to the **locking** teeth (23) on the skirt (22) of the pourer body (4), it gets **locked** on the bottle neck which cannot be removed from the bottle. Whereas, in any effort of **opening** the **device**, the **security** ring (8) irreversibly breaks and falls apart therefore, the **security** **closure** **device** makes the **opening** of bottle and refilling it with counterfeited drinks nearly impossible.

Classifications:

International (IPC 8-9): B65D



Family:

Publication number	Publication date	Application number	Application date
IN01828DE2011 A	20130104	IN2011DE01828	20110628

Probable Assignee: KSHITIJ JAIN

Assignee(s): KSHITIJ JAIN

Inventor(s): KSHITIJ JAIN

Legal status (INPADOC)

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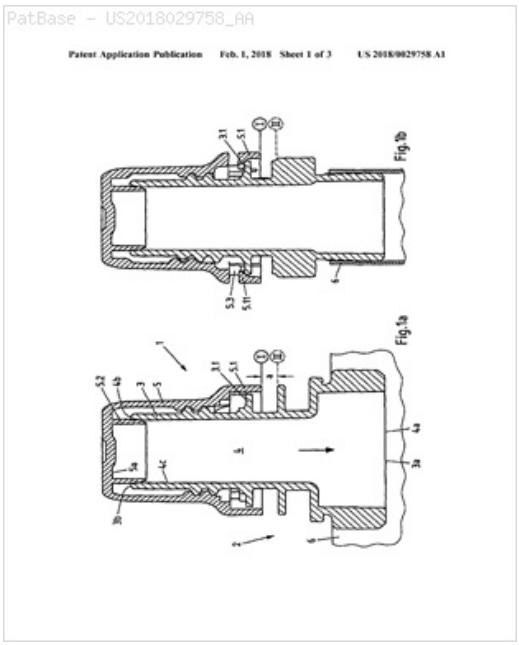
Patent	Date recorded	Event group	Code	Event	Details
IN01828DE2011 A	20130104	LSPB	+	published / reissued	

9) Family number: 61541142 (US2018029758 AA)

Title: SEALING **DEVICE** FOR A **CONTAINER** FOR ASEPTICALLY RECEIVING A FLOWABLE PRODUCT AND **CONTAINER** AND METHOD FOR ASEPTIC FILLING

Abstract: A **closure** **device** for a **container** for aseptically receiving a flowable product has a spout with a product filling duct extending axially between a first end and a second end. The **closure** **device** has a **closure** cap which can be mounted onto the spout. In the mounted state, the cap closes the second end of the product filling duct. The **closure** cap is connectable in axially positively **locking** fashion to the spout in two axially different positions. The first position is a position in which the **closure** cap is not fully mounted on the spout, and the second position is a position in which the **closure** cap is fully mounted on the spout. The **closure** cap can bear sealingly against the spout in the first position and in the second position to optimize sterility during the filling process.

Classifications:
International (IPC 8-9)**:** B65B55/00 B65B55/02 B65D41/04 B65D41/32 B65D41/34 B65D47/12 B65D53/02 B65D75/58 B67C3/26 B67C7/00
CPC: B65B55/027 B65B55/08 B65D41/0414 B65D41/325 B65D41/3442 B65D41/3447 B65D47/122 B65D75/5883 B67C2003/228 B67C2003/2691 B67C3/2642 B67C7/0006 B67C7/0073
US: 1/1 53/426



Family:

Publication number	Publication date	Application number	Application date
DE102014116151 B3	20160128	DE201410116151	20141106
DE502015006400 D1	20181115	DE201550006400T	20151030
EP3215423 A1	20170913	EP20150795125	20151030
EP3215423 B1	20181010	EP20150795125	20151030
US2018029758 AA	20180201	US20150524814	20151030
WO16071220 A1	20160512	WO2015EP75227	20151030

Priority:
DE201410116151 20141106 EP20150795125 20151030 WO2015EP75227 20151030

Probable Assignee: FLEX AND FILL SOLUTIONS LTD

Assignee(s): (std)**:** FLEX AND FILL SOLUTIONS LTD ; HENSEN HENNO

Inventor(s): (std)**:** GREEN ADAM ; HENSEN HENNO

Agent(s): COHAUSZ AND FLORACK; GOTTSCHALD JAN; GOTTSCHALD PATENTANWAELTE PARTNERSCHAFT MBB

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102014116151 B3	20141106	LSES	+R012	REQUEST FOR EXAMINATION VALIDLY FILED	
DE102014116151 B3	20150402		R079	AMENDMENT OF IPC MAIN CLASS	ClassificationScheme: IPC Text: PREVIOUS MAIN CLASS: B65D0047060000 ClassificationSymbol: B65D0053020000
DE102014116151 B3	20150805	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102014116151 B3	20150810	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102014116151 B3	20151110	LSES	R016	RESPONSE TO EXAMINATION	

				COMMUNICATION	
DE102014116151 B3	20151118	LSGT	+R018	GRANT DECISION BY EXAMINATION SECTION/EXAMINING DIVISION	
DE102014116151 B3	20160128	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102014116151 B3	20161029	LSGT	+R020	PATENT GRANT NOW FINAL	
DE102014116151 B3	20161103	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PartyType: owner OldParty: FORMER OWNER: FLEX&FILL SOLUTIONS LIMITED, GLOUCESTERSHIRE, GB Owner: HENSEN, HENNO, DE
DE102014116151 B3	20161103		R082	CHANGE OF REPRESENTATIVE	PartyType: representative Representative: COHAUSZ & FLORACK PATENT- UND RECHTSANWAELTE P, DE
DE102014116151 B3	20161103		R082	CHANGE OF REPRESENTATIVE	Representative: GOTTSCHALD, JAN, DIPL.-ING. DR.-ING., DE PartyType: representative
DE102014116151 B3	20161103		R082	CHANGE OF REPRESENTATIVE	Representative: GOTTSCHALD PATENTANWAELTE PARTNERSCHAFT MBB, DE PartyType: representative
DE102014116151 B3	20170217		R082	CHANGE OF REPRESENTATIVE	Representative: GOTTSCHALD, JAN, DIPL.-ING. DR.-ING., DE PartyType: representative
DE102014116151 B3	20170217		R082	CHANGE OF REPRESENTATIVE	PartyType: representative Representative: GOTTSCHALD PATENTANWAELTE PARTNERSCHAFT MBB, DE
DE102014116151 B3	20170817		R082	CHANGE OF REPRESENTATIVE	PartyType: representative Representative: GOTTSCHALD PATENTANWAELTE PARTNERSCHAFT MBB, DE
DE102014116151 B3	20341106	PEXP		Calculated Patent Term Expiry	
EP3215423 A1	20170913	LSPB	+	published / reissued	
EP3215423 A1	20170913	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20170518
EP3215423 A1	20170913		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3215423 A1	20170913		+AV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT	Country of Ref document: MA
EP3215423 A1	20170913		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3215423 A1	20180214		DAV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT (DELETED)	
EP3215423 A1	20180214		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
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EP3215423 B1	20181010	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Text: NOT ENGLISH Ref country code: GB
EP3215423 B1	20181015	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP3215423 B1	20181015	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20181015 Ref country code: AT Ref legal event code: REF Kind code of Ref document: T Ref document number: 1050939 Country of Ref document: AT
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EP3215423 B1	20181031	LSGT	REG	REFERENCE TO A	Ref country code: IE

				NATIONAL CODE	Ref legal event code: FG4D Text: LANGUAGE OF EP DOCUMENT: GERMAN
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EP3215423 B1	20190225	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: MG4D Ref country code: LT
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EP3215423 B1	20190531	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP3215423 B1	20190626		REG	REFERENCE TO A NATIONAL CODE	Ref country code: BE Effective date: 20181031 Ref legal event code: MM
EP3215423 B1	20190628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20181030 Country of Ref document: LU
EP3215423 B1	20190711	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 502015006400 Ref country code: DE Ref legal event code: R097 Country of Ref document: DE
EP3215423 B1	20190724	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: MM4A Ref country code: IE
EP3215423 B1	20190731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20181010 Country of Ref document: CZ
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EP3215423 B1	20190830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20181031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
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EP3215423 B1	20190830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20181031 Country of Ref document: BE
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EP3215423 B1	20200331	LSLE	-PG25	LAPSED IN A	Lapsed date: 20181010

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EP3215423 B1	20200630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20181010 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MK
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EP3215423 B1	20351030	PEXP		Calculated Patent Term Expiry	
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US2018029758 AA	20180107		RFE1	Docketed New Case - Ready for Examination	
US2018029758 AA	20180107		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: DOCKETED NEW CASE - READY FOR EXAMINATION
US2018029758 AA	20180201	LSPB	+	published / reissued	
US2018029758 AA	20190619	LSES	NFA1	Non Final Action Mailed	
US2018029758 AA	20190619		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NON FINAL ACTION MAILED
US2018029758 AA	20190817		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2018029758 AA	20190817		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER
US2018029758 AA	20190926	LSES	NFA1	Non Final Action Mailed	
US2018029758 AA	20190926		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NON FINAL ACTION MAILED
US2018029758 AA	20200622	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2018029758 AA	20200622		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
WO16071220 A1	20160512	LSPB	+	published / reissued	

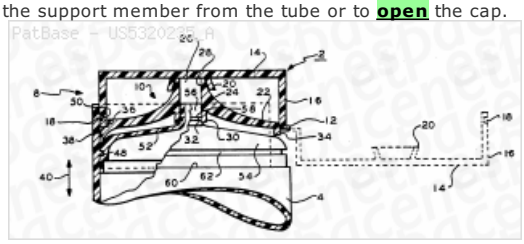
WO16071220 A1	20160622		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Ref document number: 15795125 Kind code of Ref document: A1 Country of Ref document: EP
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WO16071220 A1	20170518		+REEP	REQUEST FOR ENTRY INTO THE EUROPEAN PHASE	Ref document number: 2015795125 Country of Ref document: EP

10) Family number: 11602067 (US5320235 A)

Title: THERMOPLASTIC MOLDED CAP WITH INTEGRAL TEAR BAND

Abstract: A disk-like support member is dimensioned to be attached to a spout end of a thermoplastic tube in snap fit engagement. A tear band is attached to the member periphery by weakened regions. A cap is hinged to the support member to close the spout. The tube has an annular groove. The tear band has a first rib which **locks** to the annular groove of the tube and a second rib which engages a recess in the cap to **lock** the cap to the tear band in a closed condition. The **locking** arrangement is such that the tear band must be removed to remove the support member from the tube or to **open** the cap.

Classifications:
International (IPC 8-9): B65D47/08
International (IPC 1-7): B65D41/34
CPC: B65D2401/25 B65D47/0842
US: 215/238 215/254 215/256 220/269 220/339



Family:

Publication number	Publication date	Application number	Application date
US5320235 A	19940614	US19930044592	19930408

Priority:
US19930044592 19930408

Probable Assignee: JOYCE MOLDING CORP
Assignee(s): (std): JOYCE MOLDING CORP
Inventor(s): (std): JOYCE MICHAEL

Legal status (INPADOC)

View legal status timeline

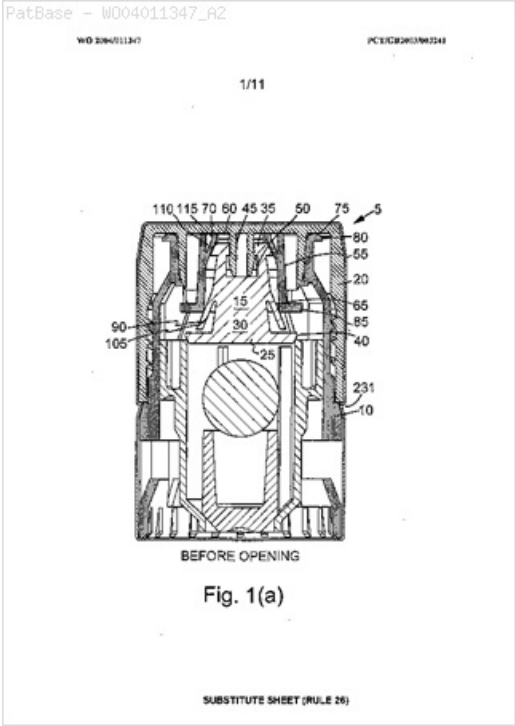
Patent	Date recorded	Event group	Code	Event	Details
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US5320235 A	19930408	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:JOYCE, MICHAEL;REEL/FRAME:006536/0795 PartyType: owner Owner: JOYCE MOLDING CORPORATION, NEW JERSEY Effective date: 19930408
US5320235 A	19940602	LSGT	PAT1	Patented Case	
US5320235 A	19940614	LSGT	+	granted / extensions (spc, cpc, pte)	
US5320235 A	19940927	LSRE	CC	CERTIFICATE OF CORRECTION	
US5320235 A	19980614	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5320235 A	19980922	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 19980614
US5320235 A	20130408	PEXP		Calculated Patent Term Expiry	
US5320235 A	20180126	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5320235 A	20180126	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

11) Family number: 24121621 (WO04011347 A2)

Title: LIQUID **CONTAINER** **CLOSURE** ASSEMBLY

Abstract: There is disclosed an improved **closure** assembly (5) adapted to be applied to a mouth and neck portion of a **container** (e.g. for liquid) such as a neck of a bottle. Known **container** **closure** assemblies suffer from a number of problems, e.g. simplicity of manufacture and provision of **tamper evidence**. Accordingly, the **closure** assembly (5) (or **tamper-evident** **device**) of the present invention comprises: a first body part (10); a **tamper-evidence** member or **lock** means (15); and a **container** **closure** member (20), wherein prior to initial **opening** the **tamper-evident** member or **lock** means (15)is in0 a first position such that the first body 15 part (10) and the **container** **closure** member (20)are disposed in a first relation to one another, and initial **opening** of the **closure** assembly (5) causes the **tamper-evident** member or **lock** means (15) to move a second position. Upon reclosure the **lock** means (15) causes the first body part (10) and the **container** **closure** member (20) to be disposed in a second (spaced) relation to one another, thereby evidencing **opening** and reclosure.

Classifications:
International (IPC 8-9): B65D49/00 B65D49/04 B65D55/02
International (IPC 1-7): B65D49/04 B65D55/02
CPC: B65D49/04 B65D55/02



Family:

Publication number	Publication date	Application number	Application date
AU2003254489 AA	20040216	AU20030254489	20030718
CN1323908 C	20070704	CN20038018283	20030718
CN1671604 A	20050921	CN20038018283	20030718
EA006807 B1	20060428	EA20050000278	20030718
EA200500278 A1	20050630	EA20050000278	20030718
GB200220554 A0	20021009	GB20020020554	20020731
MXPA05000956 A1	20050912	MX2005PA00956	20030718
WO04011347 A2	20040205	WO2003GB03241	20030718
WO04011347 A3	20040415	WO2003GB03241	20030718

Priority:
GB20020020554 20020731 WO2003GB03241 20030718

Probable Assignee: MONTGOMERY DANIEL AND SON LTD

Assignee(s): (std): DANIEL MONTGOMERY AND SON LTD ; GUALA CLOSURES U K LTD ; MONTGOMERY DANIEL AND SON CO LTD ; MONTGOMERY DANIEL AND SON LTD ; THOMSON DAVID WILLIAM

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

Inventor(s): (std): THOMPSON DADID WILLIAM ; THOMSON DAVID WILLIAM ; WILLIAM THOMSON DAVID

Inventor(s): DAVID WILLIAM THOMSON

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2003254489 AA	20040216	LSPB	+	published / reissued	
AU2003254489 AA	20050505	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT	

				APPLIC. NOT ENTERING NATIONAL PHASE	
CN1323908 C	20070704	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1323908 C	20070704	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1323908 C	20070815	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	OldParty: FORMER OWNER: GUALA CLOSURES BRITISH CO., LTD. Effective date: 20070713 PartyType: owner Owner: GUALA CAPS PATENT CO., LTD.
CN1323908 C	20070815	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN1323908 C	20080220	LSLI	LIC	PATENT LICENCE CONTRACT FOR EXPLOITATION SUBMITTED FOR RECORD	Licensee: BEIJING GUALA CAPS CO., LTD. OldParty: EXCLUSIVE LICENCE; TIME LIMIT OF IMPLEMENTING CONTACT: 2007.10.11 TO 2015.11.8 PartyType: licensee Effective date: 20071229
CN1323908 C	20151028	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN1323908 C	20160504	LSLI	LICC	ENFORCEMENT, CHANGE AND CANCELLATION OF RECORD OF CONTRACTS ON THE LICENCE FOR EXPLOITATION OF A PATENT OR UTILITY MODEL	
CN1323908 C	20160511	LSLI	LICC	ENFORCEMENT, CHANGE AND CANCELLATION OF RECORD OF CONTRACTS ON THE LICENCE FOR EXPLOITATION OF A PATENT OR UTILITY MODEL	
CN1323908 C	20230718	PEXP		Calculated Patent Term Expiry	
CN1671604 A	20050921	LSPB	+	published / reissued	
CN1671604 A	20050921	LSPB	+C06	PUBLICATION	
CN1671604 A	20051123		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
EA006807 B1	20051229	LSAS	HC1A	CHANGE IN NAME OF AN APPLICANT IN A EURASIAN APPLICATION	
EA006807 B1	20060428	LSGT	+	granted / extensions (spc, cpc, pte)	
EA006807 B1	20070629	LSRE	PC4A	REGISTRATION OF TRANSFER OF A EURASIAN PATENT BY ASSIGNMENT	
EA006807 B1	20160129	LSRE	PD4A	REGISTRATION OF TRANSFER OF A EURASIAN PATENT IN ACCORDANCE WITH THE SUCCESSION IN TITLE	
EA006807 B1	20160429	LSLE	-MM4A	LAPSE OF A EURASIAN PATENT DUE TO NON-PAYMENT OF RENEWAL FEES WITHIN THE TIME LIMIT IN THE FOLLOWING DESIGNATED STATE(S)	Country of Ref document: AM KG MD TJ TM
EA006807 B1	20230718	PEXP		Calculated Patent Term Expiry	
EA200500278 A1	20050630	LSPB	+	published /	

				reissued	
GB200220554 A0	20031112	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
MXPA05000956 A1	20050912	LSPB	+	published / reissued	
MXPA05000956 A1	20070404	LSAS	HC	CHANGE OF COMPANY NAME OR JURIDICAL STATUS	
MXPA05000956 A1	20070913	LSAS	GB	TRANSFER OR RIGHTS	
MXPA05000956 A1	20080318	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05000956 A1	20080919	LSLI	GD	LICENCE GRANTED	
WO04011347 A2	20040205	LSPB	+	published / reissued	
WO04011347 A2	20040205		+AK	DESIGNATED STATES	Kind code of Ref document: A2 Country of Ref document: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
WO04011347 A2	20040205		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A2 Country of Ref document: AM AT AZ BE BF BG BJ BY CF CG CH CI CM CY CZ DE DK EE ES FI FR GA GB GH GM GN GQ GR GW HU IE IT KE KG KZ LS LU MC MD ML MR MW MZ NE NL PT RO RU SD SE SI SK SL SN SZ TD TG TJ TM TR TZ UG ZM ZW
WO04011347 A2	20040407		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO04011347 A3	20050124	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 200550006 Kind code of Ref document: A Country of Ref document: ES
WO04011347 A3	20050124	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: P200550006 Country of Ref document: ES
WO04011347 A3	20050124	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: PA/a/2005/000956 Country of Ref document: MX
WO04011347 A3	20050131	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 20038182831 Country of Ref document: CN
WO04011347 A3	20050225	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200500278 Country of Ref document: EA
WO04011347 A3	20051012	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Ref country code: WO
WO04011347 A3	20060721	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: JP
WO04011347 A3	20060721	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	Text: JP
WO04011347 A3	20061216	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 200550006 Kind code of Ref document: A Country of Ref document: ES
WO04011347 A3	20080101	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 200550006 Kind code of Ref document: A Country of Ref document: ES

12) Family number: 57176853 (WO14122300 A1)

Title: **TAMPER EVIDENT CLOSURE**

Abstract: The present invention relates to a **tamper evident closure** (1) for closing the mouth (11) of a **container** (10). The **closure** (1) has an inner part (20), an outer part (30) movable relative to the inner part (20) from a first position, corresponding to the position prior to first **opening**, to a second position, first reversible attachment means (40), capable of attaching the inner part (20) to the **container** (10) and second irreversible attachment means (50) capable of **locking** longitudinally said the outer part (30) relative to the inner part (20) in the second position. The second attachment means (50) comprise a deformable annular member (51) housed in the **closure** (1) and cooperating with the inner part (20) and the outer part (30) to **lock** the outer part (30) relative to the inner part (20) in the second position.

Classifications:
International (IPC 8-9): B65D B65D55/02
CPC: B65D55/026

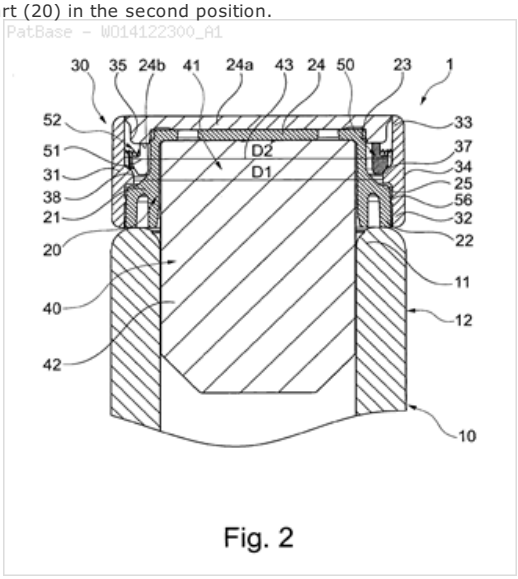


Fig. 2

Family:

Publication number	Publication date	Application number	Application date
BR112015018709 A2	20170718	BR20151118709	20140210
DE602013006696 D1	20160602	DE201360006696T	20130208
EA030550 B1	20180831	EA20150000827	20140210
EA201500827 A1	20151230	EA20150000827	20140210
EP2765090 A1	20140813	EP20130425024	20130208
EP2765090 B1	20160420	EP20130425024	20130208
JP2016506898 T2	20160307	JP20150556520T	20140210
JP6352946 B2	20180704	JP20150556520T	20140210
UA118662 C2	20190225	UA20150007201	20140210
WO14122300 A1	20140814	WO2014EP52522	20140210
ZA201505603 A	20161221	ZA20150005603	20140210

Priority:

EP20130425024 20130208 WO2014EP52522 20140210

Probable Assignee: GUALA CLOSURES SPA

Assignee(s): (std): GUALA CLOSURES SPA

Inventor(s): (std): GIOVANNINI MARCO ; JOHNSON STUART ; MARCO GIOVANNINI ; MAURIZIO MITTINO ; MITTINO MAURIZIO ; STUART JOHNSON

Agent(s): AOKI ATSUSHI; BONVICINI DAVIDE; BONVICINI DAVIDE ET AL; SHIMADA TETSURO

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BR112015018709 A2	20181113		B06F	OBJECTIONS, DOCUMENTS AND/OR TRANSLATIONS NEEDED AFTER AN EXAMINATION REQUEST ACCORDING ART. 34 INDUSTRIAL PROPERTY LAW	
BR112015018709 A2	20191105		B06U	PRELIMINARY REQUIREMENT: REQUESTS WITH SEARCHES PERFORMED BY OTHER PATENT OFFICES: SUSPENSION OF THE PATENT APPLICATION	

				PROCEDURE	
DE602013006696 D1	20170120	LSOP	-R026	OPPOSITION FILED AGAINST PATENT	
EA030550 B1	20180831	LSGT	+	granted / extensions (spc, cpc, pte)	
EA030550 B1	20191031	LSLE	-MM4A	LAPSE OF A EURASIAN PATENT DUE TO NON-PAYMENT OF RENEWAL FEES WITHIN THE TIME LIMIT IN THE FOLLOWING DESIGNATED STATE(S)	Country of Ref document: AM KG TJ TM
EA030550 B1	20340210	PEXP		Calculated Patent Term Expiry	
EA201500827 A1	20151230	LSPB	+	published / reissued	
EP2765090 A1	20140813	LSPB	+	published / reissued	
EP2765090 A1	20140813	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20130208
EP2765090 A1	20140813		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP2765090 A1	20140813		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP2765090 A1	20150318	LSES	+R17P	REQUEST FOR EXAMINATION FILED (CORRECTED)	Effective date: 20150210
EP2765090 A1	20150318		+RBV	DESIGNATED CONTRACTING STATES (CORRECTED)	Country of Ref document: AL AT 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 SM TR
EP2765090 A1	20150923	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20150824
EP2765090 B1	20160420	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2765090 B1	20160420		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AL AT 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 SM TR
EP2765090 B1	20160420	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP2765090 B1	20160429	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP2765090 B1	20160515	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160515 Kind code of Ref document: T Ref country code: AT Ref document number: 792176 Ref legal event code: REF Country of Ref document: AT
EP2765090 B1	20160518	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP2765090 B1	20160602	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602013006696 Ref legal event code: R096 Country of Ref document: DE
EP2765090 B1	20160825	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: LT Ref legal event code: MG4D
EP2765090 B1	20160915	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160420 Kind code of Ref document: T Ref country code: AT Ref document number: 792176 Ref legal event code: MK05 Country of Ref document: AT
EP2765090 B1	20160928		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160420 Ref country code: NL Ref legal event code: MP
EP2765090 B1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION

				INFORMATION FROM NATIONAL OFFICE TO EPO]	OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2765090 B1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP2765090 B1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160720 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP2765090 B1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP2765090 B1	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PL
EP2765090 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2765090 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160721 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP2765090 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP2765090 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: ES
EP2765090 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP2765090 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	Lapsed date: 20160420 NotificationOfLapse: LAPSE

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EP2765090 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP2765090 B1	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RS
EP2765090 B1	20161230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BE
EP2765090 B1	20170120	LSOP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602013006696 Ref legal event code: R026 Country of Ref document: DE
EP2765090 B1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2765090 B1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2765090 B1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP2765090 B1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP2765090 B1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2765090 B1	20170217	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 5

					Country of Ref document: FR
EP2765090 B1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SM
EP2765090 B1	20170301	LSOP	-26	OPPOSITION FILED	Effective date: 20170120 Opponent: OBRIST CLOSURES SWITZERLAND GMBH PartyType: opponent
EP2765090 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170217 Year of fee payment: 5 Country of Ref document: FR
EP2765090 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170217 Year of fee payment: 5 Country of Ref document: DE
EP2765090 B1	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP2765090 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170223 Year of fee payment: 5 Country of Ref document: BG
EP2765090 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170216 Year of fee payment: 5 Country of Ref document: GB
EP2765090 B1	20170607		REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: 732E Text: REGISTERED BETWEEN 20170511 AND 20170517
EP2765090 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170223 Year of fee payment: 5 Country of Ref document: IT
EP2765090 B1	20170929	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MC
EP2765090 B1	20170929	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP2765090 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170228 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP2765090 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170228 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP2765090 B1	20171129	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP2765090 B1	20171229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170208 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU

EP2765090 B1	20180223	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 6
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EP2765090 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180216 Year of fee payment: 6 Country of Ref document: GB
EP2765090 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180219 Year of fee payment: 6 Country of Ref document: DE
EP2765090 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180228 Year of fee payment: 6 Country of Ref document: IT
EP2765090 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180223 Year of fee payment: 6 Country of Ref document: FR
EP2765090 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180220 Year of fee payment: 6 Country of Ref document: BG
EP2765090 B1	20180709	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602013006696 Ref legal event code: R100 Country of Ref document: DE
EP2765090 B1	20180928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170208 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MT
EP2765090 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AL
EP2765090 B1	20181114	LSRE	+27O	OPPOSITION REJECTED	Effective date: 20180709
EP2765090 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190214 Year of fee payment: 7 Country of Ref document: IT
EP2765090 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190218 Year of fee payment: 7 Country of Ref document: GB
EP2765090 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190222 Year of fee payment: 7 Country of Ref document: BG
EP2765090 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190219 Year of fee payment: 7 Country of Ref document: DE
EP2765090 B1	20190531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190220 Year of fee payment: 7 Country of Ref document: FR
EP2765090 B1	20190628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO	Lapsed date: 20130208 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN

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EP2765090 B1	20200331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160420 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR
EP2765090 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200219 Year of fee payment: 8 Country of Ref document: GB
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EP2765090 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200220 Year of fee payment: 8 Country of Ref document: IT
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EP2765090 B1	20200630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200219 Year of fee payment: 8 Country of Ref document: FR
EP2765090 B1	20200731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160820 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP2765090 B1	20330208	PEXP		Calculated Patent Term Expiry	
JP2016506898 T2	20160307	LSPB	+	published / reissued	
JP2016506898 T2	20170203	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20170203 Text: JAPANESE INTERMEDIATE CODE: A621
JP2016506898 T2	20171130		A977	REPORT ON RETRIEVAL	Effective date: 20171130 Text: JAPANESE INTERMEDIATE CODE: A971007
JP2016506898 T2	20171205	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20171205 Text: JAPANESE INTERMEDIATE CODE: A131
JP2016506898 T2	20180209	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20180209 Text: JAPANESE INTERMEDIATE CODE: A523
JP2016506898 T2	20180423	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2016506898 T2	20180508	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A	Effective date: 20180508 Text: JAPANESE INTERMEDIATE CODE: A01

				REGISTRATION (UTILITY MODEL)	
JP2016506898 T2	20180614	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	Effective date: 20180607 Text: JAPANESE INTERMEDIATE CODE: A61
JP6352946 B2	20180510	LSGT	+A01	特許査定書	
JP6352946 B2	20180612	LSFE	R100	特許料納付書	
JP6352946 B2	20180615	LSGT	+R150	特許証	
JP6352946 B2	20180704	LSGT	+	granted / extensions (spc, cpc, pte)	
JP6352946 B2	20340210	PEXP		Calculated Patent Term Expiry	
UA118662 C2	20190225	LSGT	+	granted / extensions (spc, cpc, pte)	
UA118662 C2	20340210	PEXP		Calculated Patent Term Expiry	
WO14122300 A1	20140814	LSPB	+	published / reissued	
WO14122300 A1	20141001		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 14703379 Country of Ref document: EP
WO14122300 A1	20150810	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2015556520 Country of Ref document: JP
WO14122300 A1	20150810	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO14122300 A1	20150825		REG	REFERENCE TO NATIONAL CODE	Ref country code: BR Ref document number: 112015018709 Ref legal event code: B01A Country of Ref document: BR
WO14122300 A1	20150907	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 201500827 Country of Ref document: EA
WO14122300 A1	20160302	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A1 Ref document number: 14703379 Country of Ref document: EP
WO14122300 A1	20170718	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Effective date: 20150804 Kind code of Ref document: A2 Ref document number: 112015018709 Country of Ref document: BR
ZA201505603 A	20161221	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201505603 A	20340209	PEXP		Calculated Patent Term Expiry	

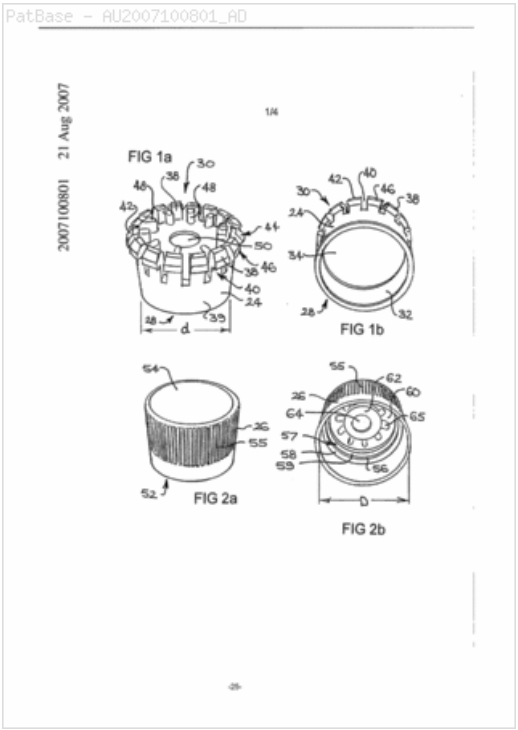
13) Family number: 40807262 (AU2007100801 AD)

Title: **Tamper evidence** **closure**

Abstract: O A **tamper evidence** **closure** which can be releasably **secured** over the **opening** Sof a **container**. The **tamper evidence** **closure** comprises an electronic label which can be detected by an interrogator, and a movable housing which is movable between a first position in which the electronic label is in a first condition corresponding to the **closure** being sealed and a second position in O 0o which the electronic label is in a second or **tamper evidence** condition, one or 0 both of the first and second conditions being detectable by the interrogator. The S 10 movable housing is moved from the first position to the second position when Sthe **closure** is first operated for removal from the **container**. Representative Figure: Fig. 6 Representative Figure: Fig. 6 W vnnvaon SpeMos'RN 809511 tamoer ewlderre Clos8re doe FIG FIG 6 '57 FIG 7 201/

Classifications:

International (IPC 8-9)**:** B65D41/00 B65D41/02 B65D41/04 B65D41/16 B65D41/62 B65D50/00 B65D50/04 B65D51/18 B65D51/24 B65D55/02



Family:

Publication number	Publication date	Application number	Application date
AU2007100801 AD	20071004	AU20070100801	20070821

Priority:

US20060845540P 20060918

Probable Assignee:	TAGSYS SAS
Assignee(s): (std)**:**	TAGSYS SAS
Inventor(s): (std)**:**	LECIRE PHILIPPE ; LENEVEZ YVES
Inventor(s):	PHILIPPE LECIRE ; YVES LENEVEZ
Agent(s):	PHILLIPS ORMONDE FITZPATRICK

Legal status (INPADOC)

View legal status timeline

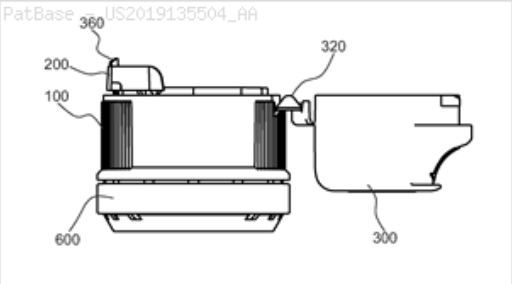
Patent	Date recorded	Event group	Code	Event	Details
AU2007100801 AD	20071004	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2007100801 AD	20071004	LSGT	+FGI	LETTERS PATENT SEALED OR GRANTED (INNOVATION PATENT)	
AU2007100801 AD	20150319	LSLE	-MK22	PATENT CEASED SECTION 143A(D), OR EXPIRED - NON PAYMENT OF RENEWAL FEE OR EXPIRY	
AU2007100801 AD	20270821	PEXP		Calculated Patent Term Expiry	

14) Family number: 74258891 (US2019135504 AA)

Title: DISPENSING **CLOSURE** FOR A FLUID **CONTAINER**

Abstract: The present invention relates to a dispensing **closure** comprising a base element, which can be attached to a neck of a **container**, a flip-top lid, being attached to said base element by a hinge and being movable between a closed and an **opened** position, and a **tamper-evident** element extending in a circumferential direction around at least part of the circumference of said dispensing **closure**, wherein the **tamper-evident** element has at least one weakening region extending at least over part of the height of the **tamper-evident** element and/or wherein a shoulder region of the base element, to which frangible elements of the **tamper-evident** element are attached, is inclined such that it declines in an outward direction of the base element.

Classifications:
International (IPC 8-9): B65D47/08 B65D55/02 B65D55/08
International (IPC 1-7): B65D47/08 B65D55/02
CPC: B65D2401/35 B65D47/08 B65D47/0804 B65D55/024 B65D55/0818
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
BR112018068813 A2	20190709	BR20181168813	20171106
CN110099855 A	20190806	CN201780033100	20171106
EP3548393 A1	20191009	EP20170793963	20171106
EP3548393 B1	20200909	EP20170793963	20171106
EP3578478 A1	20191211	EP20190186030	20171106
IN201817040100 A	20191220	IN201817040100	20181024
MX2018014664 A1	20190610	MX20180014664	20171106
RU2018133706 A	20200325	RU20180133706	20171106
US10562681 BB	20200218	US20170306084	20171106
US2019135504 AA	20190509	US20170306084	20171106
WO19086132 A1	20190509	WO2017EP78354	20171106

Priority:
WO2017EP78354 20171106 EP20170793963 20171106 EP20190186030 20171106

Probable Assignee: APTAR FREYUNG GMBH

Assignee(s): (std): APTAR FREYUNG CO LTD ; APTAR FREYUNG GMBH ; APTARGROUP INC

Assignee(s): APTAR FREYUNG CO

Inventor(s): (std): ANDREAS RUECKERT ; BEILKE STACY L ; BHATT PRANAV MAHESH ; BRUNO KOENIGSEDER ; KOENIGSEDER BRUNO ; KONIGSEDER BRUNO ; PRANAV MAHESH BHATT ; RUCKERT ANDREAS ; RUECKERT ANDREAS ; STACY L BEILKE

Inventor(s): K NIGSEDER BRUNO ; RCKERT ANDREAS

Agent(s): APPELT CHRISTIAN W; WOOD PHILLIPS KATZ CLARK AND MORTIMER

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CN110099855 A	20190806	LSPB	+	published / reissued	
CN110099855 A	20190806	LSPB	PB01	PUBLICATION	
CN110099855 A	20190806	LSPB	PB01	公开	Text: 公开 (Disclosure)
CN110099855 A	20191108		SE01	ENTRY INTO FORCE OF REQUEST FOR SUBSTANTIVE EXAMINATION	
CN110099855 A	20191108		SE01	实质审查请求的生效	Text: 实质审查的生效 (Force of substantive review)
EP3548393 A1	20191009	LSPB	+	published / reissued	
EP3548393 A1	20191009	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20190705
EP3548393 A1	20191009		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR

EP3548393 A1	20191009		+AV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT	Country of Ref document: MA MD
EP3548393 A1	20191009		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3548393 A1	20200506	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20200409
EP3548393 B1	20200909	LSGT	+	granted / extensions (spc, cpc, pte)	
EP3548393 B1	20200909		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AL AT 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 SM TR
EP3548393 B1	20200909		DAV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT (DELETED)	
EP3548393 B1	20200909		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3548393 B1	20200909	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP3548393 B1	20200915	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20200915 Kind code of Ref document: T Ref country code: AT Ref document number: 1311299 Ref legal event code: REF Country of Ref document: AT
EP3548393 B1	20371106	PEXP		Calculated Patent Term Expiry	
EP3578478 A1	20191211	LSPB	+	published / reissued	
EP3578478 A1	20191211		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Ref document number: 3548393 Kind code of Ref document: P Country of Ref document: EP
EP3578478 A1	20191211		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3578478 A1	20191211		+AV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT	Country of Ref document: MA MD
EP3578478 A1	20191211		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3578478 A1	20200408	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20200304
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IN201817040100 A	20191220	LSPB	+	published / reissued	
MX2018014664 A1	20190610	LSPB	+	published / reissued	
RU2018133706 A	20200325	LSPB	+	published / reissued	
US10562681 BB	20181130	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: ENTITY STATUS SET TO UNDISCOUNTED (ORIGINAL EVENT CODE: BIG.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US10562681 BB	20181217	LSAS	AS	ASSIGNMENT	Owner: APTARGROUP, INC., ILLINOIS PartyType: owner OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:BHATT, PRANAV MAHESH;BEILKE, STACY L.;SIGNING DATES FROM 20181025 TO 20181101;REEL/FRAME:047793/0537

US10562681 BB	20181217	LSAS	AS	ASSIGNMENT	Effective date: 20181107 Owner: APTAR FREYUNG GMBH, GERMANY PartyType: owner OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:KOENIGSEDER, BRUNO;RUECKERT, ANDREAS;REEL/FRAME:047793/0670
US10562681 BB	20190425		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: DOCKETED NEW CASE - READY FOR EXAMINATION
US10562681 BB	20200218	LSGT	+	granted / extensions (spc, cpc, pte)	
US10562681 BB	20371106	PEXP		Calculated Patent Term Expiry	
US2019135504 AA	20190425		RFE1	Docketed New Case - Ready for Examination	
US2019135504 AA	20190509	LSPB	+	published / reissued	
US2019135504 AA	20190930	LSES	NFA1	Non Final Action Mailed	
US2019135504 AA	20190930		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NON FINAL ACTION MAILED
US2019135504 AA	20191122	LSES	NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2019135504 AA	20191122		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NOTICE OF ALLOWANCE MAILED -- APPLICATION RECEIVED IN OFFICE OF PUBLICATIONS
US2019135504 AA	20191223	LSFE	PPR1	Publications -- Issue Fee Payment Received	
US2019135504 AA	20191223		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: PUBLICATIONS -- ISSUE FEE PAYMENT RECEIVED
US2019135504 AA	20200129	LSGT	PAT1	Patented Case	
US2019135504 AA	20200129	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
WO19086132 A1	20180925	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2018133706 Country of Ref document: RU
WO19086132 A1	20190509	LSPB	+	published / reissued	
WO19086132 A1	20190619		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 17793963 Country of Ref document: EP
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WO19086132 A1	20190709	LSNP	ENP	ENTRY INTO THE NATIONAL	Kind code of Ref document: A2 Ref document number:

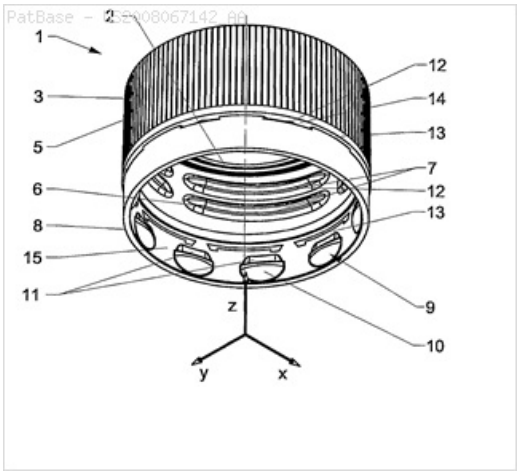
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WO19086132 A1	20200507	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE

15) Family number: 33366293 (US2008067142 AA)

Title: SEALING MEANS FOR A **CLOSURE**, **CLOSURE** AND PROCESS

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.

Classifications:
International (IPC 8-9): B29C45/14 B65B7/28 B65D B65D39/08 B65D41/00 B65D41/04 B65D41/14 B65D41/32 B65D41/34 B65D41/38 B65D43/16 B65D47/00 B65D47/06 B65D47/08 B65D47/10 B65D47/36 B65D51/18 B65D53/00 B65D53/02 B65D53/04 B65D55/02
International (IPC 1-7): B65D41/04
CPC: B65D2215/02 B65D2251/105 B65D2401/15 B65D47/0809 B65D47/243 B65D2251/1016 B65D2251/1066 B65D41/04 B65D41/0428 B65D41/045 B65D41/3447
US: 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 215/343 215/344 215/345 215/354 220/259.1 220/259.100S 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



Family:

Publication number	Publication date	Application number	Application date
AT416992 E	20081215	AT20050747178T	20050408
AT384672 E	20080215	AT20050792201T	20050901
AT405498 E	20080915	AT20050857768T	20050802
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AU2005331483 BB	20120216	AU20050331483	20050802
BRPI0514822 A	20080624	BR2005PI14822	20050802
BRPI0514822 B1	20171017	BR2005PI14822	20050802
CA2579783 AA	20070315	CA20052579783	20050408
CA2579783 C	20130205	CA20052579783	20050408
CA2579788 AA	20070315	CA20052579788	20050901
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CN101142126 A	20080312	CN200580049089	20050407
DE602005004565 D1	20080313	DE200560004565T	20050901
DE602005004565 T2	20090129	DE200560004565T	20050901
DE602005009213 D1	20081002	DE200560009213T	20050802
DE602005011649 D1	20090122	DE200560011649T	20050408
DK1789336 T3	20090105	DK20050857768T	20050802
EA009267 B1	20071228	EA20070000511	20050802
EA200700511 A1	20070831	EA20070000511	20050802
EG24623 A	20100307	EG20070000235T	20070228
EP1879807 A2	20080123	EP20050731954	20050407
EP1799573 A1	20070627	EP20050747178	20050408
EP1799573 B1	20081210	EP20050747178	20050408
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EP1799574 B1	20080123	EP20050792201	20050901
EP1789336 A1	20070530	EP20050857768	20050802
EP1789336 B1	20080820	EP20050857768	20050802
EP1985549 A1	20081029	EP20080162481	20050802
EP2065314 A2	20090603	EP20080171115	20050408
EP2065314 A3	20090916	EP20080171115	20050408
ES2319554 T3	20090508	ES20050747178T	20050408
ES2302235 T3	20080701	ES20050792201T	20050901
ES2313457 T3	20090301	ES20050857768T	20050802
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HK1099893 A3	20070824	HK20070107500	20070712
HK1099893 B	20090220	HK20070107500	20070712
HK1101158 A1	20071012	HK20070109312	20070827
HK1101158 A3	20071012	HK20070109312	20070827

HK1101158 B	20080320	HK20070109312	20070827
HK1101817 A1	20071026	HK20070109862	20070911
HK1101817 A3	20071026	HK20070109862	20070911
HK1101817 B	20090409	HK20070109862	20070911
HK1120482 A1	20090403	HK20090101274	20090211
HK1120482 A3	20090403	HK20090101274	20090211
IL181627 A1	20101031	IL20050181627	20050802
IL181627 A0	20070704	IL20070181627	20070228
IN01352CN2007 A	20070831	IN2007CN01352	20070402
IN255199 B	20130208	IN2007CN01352	20070402
JP2008511505 T2	20080417	JP20070528817T	20050802
JP4949250 B2	20120606	JP20070528817T	20050802
KR101233851 B1	20130215	KR20077007476	20050802
KR20070061852 A	20070614	KR20077007476	20050802
MA28917 B1	20071001	MA20070029797	20070403
MX2007002498 A1	20071010	MX20070002498	20050802
NZ553850 A	20100930	NZ20050553850	20050802
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TH81435 A	20061123	TH20061000791	20060223
TH41104 B	20140814	TH20061000861	20060228
TH82662 A	20070125	TH20061000861	20060228
TH44406 B	20150527	TH20061000862	20060228
TH83086 A	20070215	TH20061000862	20060228
TH81829 A	20061214	TH20061001085	20060313
UA87870 C2	20090825	UA20070003322	20050802
US2008314000 AA	20081225	US20050574565	20050408
US7905820 BB	20110315	US20050574565	20050408
US2008169261 AA	20080717	US20050574567	20050901
US8733566 BB	20140527	US20050574567	20050901
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US8393483 BB	20130312	US20050574569	20050802
US2008272083 AA	20081106	US20050886272	20050407
VN7860 A1	20090825	VN20070000680	20050802
WO06097151 A2	20060921	WO2005EP51559	20050407
WO06097151 A3	20070607	WO2005EP51559	20050407
WO06024550 A1	20060309	WO2005EP51575	20050408
WO06117024 A1	20061109	WO2005EP53777	20050802
WO06024656 A1	20060309	WO2005EP54307	20050901
ZA200702221 A	20080925	ZA20070002221	20070316

Priority:

US20040606240P 20040901
US20050661983P 20050314
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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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT384672 E	20080215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT384672 E	20080715	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	

AT384672 E	20081115	LSRE	+EEWE	AUTHORIZATION FOR RESTITUTION	
AT384672 E	20250901	PEXP		Calculated Patent Term Expiry	
AT405498 E	20080915	LSGT	+	granted / extensions (spc, cpc, pte)	
AT405498 E	20090415	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	Ref document number: 1789336 Country of Ref document: EP
AT405498 E	20250802	PEXP		Calculated Patent Term Expiry	
AT416992 E	20081215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT416992 E	20090615	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
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AU2005279146 AA	20060309	LSPB	+	published / reissued	
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AU2005279146 BB	20110421	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2005279146 BB	20250901	PEXP		Calculated Patent Term Expiry	
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BRPI0514822 A	20170718	LSGT	B09A	DECISION: INTENTION TO GRANT	
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CA2579788 AA	20130723	LSLE	-FZDE	DEAD	Effective date: 20130528
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CA2580467 AA	20100205	LSES	+EEER	EXAMINATION	

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CA2580467 C	20250802	PEXP		Calculated Patent Term Expiry	
CN101044065 A	20070926	LSPB	+	published / reissued	
CN101044065 A	20070926	LSPB	+C06	PUBLICATION	
CN101044065 A	20071121		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN101044065 A	20081210	LSLI	LIC	PATENT LICENCE CONTRACT FOR EXPLOITATION SUBMITTED FOR RECORD	Effective date: 20080918 Licensee: DRINK COATING CO., LTD. OldParty: SEPARATELY LICENCE; TIME LIMIT OF IMPLEMENTING CONTACT: 2007.12.17 TO 2017.12.17 PartyType: licensee
CN101044065 B	20130213	LSGT	+	granted / extensions (spc, cpc, pte)	
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CN101044065 B	20250408	PEXP		Calculated Patent Term Expiry	
CN101044066 A	20070926	LSPB	+	published / reissued	
CN101044066 A	20070926	LSPB	+C06	PUBLICATION	
CN101044066 A	20070926	LSPB	PB01	公开	Text: 公开 (Disclosure)
CN101044066 A	20071121		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN101044066 A	20071121		SE01	实质审查请求的生效	Text: 实质审查的生效 (Force of substantive review)
CN101044066 A	20081210	LSLI	EE01	专利实施许可合同备案的生效	Contract Record Number: 2008990000421 License Type: 分许可 (Sub-license) Licensee: 饮料包装有限公司 (Beverage packaging Co., Ltd.) Licensor: 通用密封有限公司 (Universal Sealed Co., Ltd.) Record Date: 2008.9.18 Text: 专利实施许可合同的备案 (Any patent license contract for exploitation submitted for record)
CN101044066 A	20081210	LSLI	LIC	PATENT LICENCE CONTRACT FOR EXPLOITATION SUBMITTED FOR RECORD	Effective date: 20080918 Licensee: DRINK COATING CO., LTD. OldParty: SEPARATELY LICENCE; TIME LIMIT OF IMPLEMENTING CONTACT: 2007.12.17 TO 2017.12.17 PartyType: licensee
CN101044066 B	20120411	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101044066 B	20120411	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
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CN101044066 B	20190816	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN101044066 B	20190816	LSLE	-CF01	未缴年费专利权终止	Effective date: 20180901 Text: 专利权的终止 (Termination of Patent Right)
CN101044066 B	20250901	PEXP		Calculated Patent Term Expiry	
CN101044067 A	20070926	LSPB	+	published / reissued	
CN101044067 A	20070926	LSPB	+C06	PUBLICATION	
CN101044067 A	20071121		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN101044067 A	20081210	LSLI	LIC	PATENT LICENCE CONTRACT FOR EXPLOITATION SUBMITTED FOR RECORD	Effective date: 20080918 Licensee: DRINK COATING CO., LTD. OldParty: SEPARATELY LICENCE; TIME LIMIT OF IMPLEMENTING CONTACT: 2007.12.17 TO 2017.12.17 PartyType: licensee
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CN101142126 A	20080312	LSPB	+C06	PUBLICATION	
CN101142126 A	20080507		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN101142126 A	20081210	LSLI	LIC	PATENT LICENCE CONTRACT FOR EXPLOITATION SUBMITTED FOR RECORD	Effective date: 20080918 Licensee: DRINK COATING CO., LTD. OldParty: SEPARATELY LICENCE; TIME LIMIT OF IMPLEMENTING CONTACT: 2007.12.17 TO 2017.12.17 PartyType: licensee
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DE602005009213 D1	20090910	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE602005011649 D1	20081113	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	OldParty: Creanova Universal Closures Ltd., London, GB PartyType: Owner
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EA200700511 A1	20070831	LSPB	+	published / reissued	
EG24623 A	20100307	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1789336 A1	20070530		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1789336 A1	20070530		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL BA HR MK YU
EP1789336 A1	20070627	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20070509
EP1789336 A1	20070627		+RBV	DESIGNATED CONTRACTING STATES (CORRECTED)	Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1789336 A1	20070822	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20070720
EP1789336 A1	20070824		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1099893 Ref legal event code: DE

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EP1789336 A1	20071205		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP1789336 A1	20080409		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: DRUITT, RODNEY PartyType: inventor
EP1789336 A1	20080813		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: DRUITT, RODNEY PartyType: inventor
EP1789336 A1	20151030	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20150813 Year of fee payment: 11 Country of Ref document: ES
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EP1789336 A1	20161230	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160810 Year of fee payment: 12 Country of Ref document: ES
EP1789336 B1	20080820	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1789336 B1	20080820		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
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EP1789336 B1	20080831	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP

EP1789336 B1	20080917	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP1789336 B1	20081002		REF	CORRESPONDS TO:	Date of Ref document: 20081002 Kind code of Ref document: P Ref document number: 602005009213 Country of Ref document: DE
EP1789336 B1	20081114		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: CH Ref legal event code: NV Representative: RENTSCH & PARTNER
EP1789336 B1	20081128		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20081118 Ref country code: PT Ref legal event code: SC4A Text: AVAILABILITY OF NATIONAL TRANSLATION
EP1789336 B1	20081209		REG	REFERENCE TO A NATIONAL CODE	Ref country code: SE Ref legal event code: TRGR
EP1789336 B1	20081219	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GR Ref document number: 20080403196 Ref legal event code: EP Country of Ref document: GR
EP1789336 B1	20090105		REG	REFERENCE TO A NATIONAL CODE	Ref country code: DK Ref legal event code: T3
EP1789336 B1	20090130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081220 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP1789336 B1	20090130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080820 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP1789336 B1	20090220	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1099893 Ref legal event code: GR Country of Ref document: HK
EP1789336 B1	20090227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080820 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP1789336 B1	20090227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080820 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP1789336 B1	20090227		REG	REFERENCE TO A NATIONAL CODE	Ref country code: PL Ref legal event code: T3
EP1789336 B1	20090301	LSGT	REG	REFERENCE TO A NATIONAL CODE	Kind code of Ref document: T3 Ref country code: ES Ref document number: 2313457 Ref legal event code: FG2A Country of Ref document: ES
EP1789336 B1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081120 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP1789336 B1	20090528	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HU Ref document number: E004751 Ref legal event code: AG4A Country of Ref document: HU
EP1789336 B1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080820 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP1789336 B1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080820 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP1789336 B1	20090729	LSGT	+26N	NO OPPOSITION	Effective date: 20090525

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EP1789336 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080820 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP1789336 B1	20100331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090831 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP1789336 B1	20110429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090802 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1789336 B1	20110630	LSAS	REG	REFERENCE TO A NATIONAL CODE	OldParty: CREANOVA UNIVERSAL CLOSURES LTD.#5 SHANNON POINT#OAKFIELD CLOSE, TEWKESBURY BUSINESS PARK TEWKESBURY GL20 8PF (GB) - TRANSFER TO- CREANOVA UNIVERSAL CLOSURES LTD.#5 SHANNON POINT#OAKFIELD CLOSE, TEWKESBURY BUSINESS PARK TEWKESBURY GL20 8PF (GB) Owner: CREANOVA UNIVERSAL CLOSURES LTD. PartyType: owner Ref country code: CH Ref legal event code: PFA
EP1789336 B1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080820 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP1789336 B1	20160822	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 12 Country of Ref document: FR
EP1789336 B1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160819 Year of fee payment: 12 Country of Ref document: DK
EP1789336 B1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160823 Year of fee payment: 12 Country of Ref document: IE
EP1789336 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160822 Year of fee payment: 12 Country of Ref document: AT
EP1789336 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160801 Year of fee payment: 12 Country of Ref document: PT
EP1789336 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160823 Year of fee payment: 12 Country of Ref document: HU
EP1789336 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160722 Year of fee payment: 12 Country of Ref document: PL
EP1789336 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160819 Year of fee payment: 12 Country of Ref document: SE
EP1789336 B1	20161230	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160819 Year of fee payment: 12 Country of Ref document: BE
EP1789336 B1	20161230	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160721 Year of fee payment: 12 Country of Ref document: TR

EP1789336 B1	20170822	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 13
EP1789336 B1	20170929	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170821 Year of fee payment: 13 Country of Ref document: NL
EP1789336 B1	20170929		REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PCAR Text: NEW ADDRESS: BELLERIVESTRASSE 203 POSTFACH, 8034 ZUERICH (CH)
EP1789336 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170822 Year of fee payment: 13 Country of Ref document: FR
EP1789336 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170821 Year of fee payment: 13 Country of Ref document: CH
EP1789336 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170811 Year of fee payment: 13 Country of Ref document: GR
EP1789336 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170828 Year of fee payment: 13 Country of Ref document: IT
EP1789336 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170822 Year of fee payment: 13 Country of Ref document: FI
EP1789336 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170731 Year of fee payment: 13 Country of Ref document: CZ
EP1789336 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170822 Year of fee payment: 13 Country of Ref document: DE
EP1789336 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170928 Year of fee payment: 13 Country of Ref document: ES
EP1789336 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170822 Year of fee payment: 13 Country of Ref document: GB
EP1789336 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170821 Year of fee payment: 13 Country of Ref document: BE
EP1789336 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170825 Year of fee payment: 13 Country of Ref document: IE
EP1789336 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170821 Year of fee payment: 13 Country of Ref document: DK
EP1789336 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170822 Year of fee payment: 13 Country of Ref document: AT
EP1789336 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170802 Year of fee payment: 13 Country of Ref document: PT
EP1789336 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170816 Year of fee payment: 13 Country of Ref document: HU
EP1789336 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM	Payment date: 20170725 Year of fee payment: 13 Country of Ref document: TR

				NATIONAL OFFICE TO EPO]	
EP1789336 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170821 Year of fee payment: 13 Country of Ref document: SE
EP1789336 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170721 Year of fee payment: 13 Country of Ref document: PL
EP1789336 B1	20180827	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 14
EP1789336 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180830 Year of fee payment: 14 Country of Ref document: IT
EP1789336 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180921 Year of fee payment: 14 Country of Ref document: ES
EP1789336 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180827 Year of fee payment: 14 Country of Ref document: FR
EP1789336 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180821 Year of fee payment: 14 Country of Ref document: NL
EP1789336 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180823 Year of fee payment: 14 Country of Ref document: DE
EP1789336 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180828 Year of fee payment: 14 Country of Ref document: IE
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180801 Year of fee payment: 14 Country of Ref document: TR
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180723 Year of fee payment: 14 Country of Ref document: PL
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180822 Year of fee payment: 14 Country of Ref document: GB
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180822 Year of fee payment: 14 Country of Ref document: FI
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180815 Year of fee payment: 14 Country of Ref document: HU
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180823 Year of fee payment: 14 Country of Ref document: SE
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180823 Year of fee payment: 14 Country of Ref document: DK
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180731 Year of fee payment: 14 Country of Ref document: CZ
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180813 Year of fee payment: 14 Country of Ref document: GR

EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180822 Year of fee payment: 14 Country of Ref document: CH
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180821 Year of fee payment: 14 Country of Ref document: BE
EP1789336 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180822 Year of fee payment: 14 Country of Ref document: AT
EP1789336 B1	20181231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180719 Year of fee payment: 14 Country of Ref document: PT
EP1789336 B1	20190930	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190821 Year of fee payment: 15 Country of Ref document: NL
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190822 Year of fee payment: 15 Country of Ref document: FI
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190719 Year of fee payment: 15 Country of Ref document: PT
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190923 Year of fee payment: 15 Country of Ref document: ES
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190822 Year of fee payment: 15 Country of Ref document: FR
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190821 Year of fee payment: 15 Country of Ref document: SE
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190729 Year of fee payment: 15 Country of Ref document: TR
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190821 Year of fee payment: 15 Country of Ref document: DK
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190822 Year of fee payment: 15 Country of Ref document: DE
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190724 Year of fee payment: 15 Country of Ref document: CZ
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190827 Year of fee payment: 15 Country of Ref document: IE
EP1789336 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190829 Year of fee payment: 15 Country of Ref document: IT
EP1789336 B1	20191129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190821 Year of fee payment: 15 Country of Ref document: HU
EP1789336 B1	20191129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190822 Year of fee payment: 15 Country of Ref document: GR
EP1789336 B1	20191129	LSFE	+PGFP	ANNUAL FEE PAID TO	Payment date: 20190821

				NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 15 Country of Ref document: BE
EP1789336 B1	20191129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190723 Year of fee payment: 15 Country of Ref document: PL
EP1789336 B1	20191231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190822 Year of fee payment: 15 Country of Ref document: AT
EP1789336 B1	20191231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190821 Year of fee payment: 15 Country of Ref document: GB
EP1789336 B1	20200131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190821 Year of fee payment: 15 Country of Ref document: CH
EP1789336 B1	20250802	PEXP		Calculated Patent Term Expiry	
EP1799573 A1	20070627	LSPB	+	published / reissued	
EP1799573 A1	20070627	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20070402
EP1799573 A1	20070627		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
EP1799573 A1	20071026		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1101817 Ref legal event code: DE Country of Ref document: HK
EP1799573 A1	20071121	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20071023
EP1799573 A1	20071128		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: DRUITT, ROD PartyType: inventor
EP1799573 A1	20071205		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP1799573 A1	20080709	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: CREANOVA UNIVERSAL CLOSURES LTD. PartyType: owner
EP1799573 A1	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160324 Year of fee payment: 12 Country of Ref document: TR
EP1799573 A1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160322 Year of fee payment: 12 Country of Ref document: PL
EP1799573 A1	20160630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160420 Year of fee payment: 12 Country of Ref document: NL
EP1799573 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160413 Year of fee payment: 12 Country of Ref document: ES
EP1799573 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160421 Year of fee payment: 12 Country of Ref document: IE
EP1799573 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160421 Year of fee payment: 12 Country of Ref document: DE
EP1799573 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160420 Year of fee payment: 12 Country of Ref document: CH
EP1799573 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE	Payment date: 20160421 Year of fee payment: 12

				[ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Country of Ref document: GB
EP1799573 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160414 Year of fee payment: 12 Country of Ref document: GR
EP1799573 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160407 Year of fee payment: 12 Country of Ref document: CZ
EP1799573 A1	20160831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160408 Year of fee payment: 12 Country of Ref document: PT
EP1799573 A1	20160831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160420 Year of fee payment: 12 Country of Ref document: BE
EP1799573 A1	20160831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160420 Year of fee payment: 12 Country of Ref document: HU
EP1799573 A1	20160831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160427 Year of fee payment: 12 Country of Ref document: IT
EP1799573 A1	20160831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160421 Year of fee payment: 12 Country of Ref document: FR
EP1799573 B1	20081210	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1799573 B1	20081210		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
EP1799573 B1	20081210	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP1799573 B1	20081215	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP1799573 B1	20090121	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP1799573 B1	20090122		REF	CORRESPONDS TO:	Date of Ref document: 20090122 Kind code of Ref document: P Ref document number: 602005011649 Country of Ref document: DE
EP1799573 B1	20090313		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: CH Ref legal event code: NV Representative: RENTSCH & PARTNER
EP1799573 B1	20090318		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20090310 Ref country code: PT Ref legal event code: SC4A Text: AVAILABILITY OF NATIONAL TRANSLATION
EP1799573 B1	20090409	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1101817 Ref legal event code: GR Country of Ref document: HK
EP1799573 B1	20090413	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GR Ref document number: 20090400731 Ref legal event code: EP Country of Ref document: GR
EP1799573 B1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP1799573 B1	20090508	LSGT	REG	REFERENCE TO A NATIONAL CODE	Kind code of Ref document: T3 Ref country code: ES Ref document number: 2319554 Ref legal event code: FG2A Country of Ref document: ES
EP1799573 B1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	Lapsed date: 20081210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A

				POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP1799573 B1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP1799573 B1	20090529		REG	REFERENCE TO A NATIONAL CODE	Ref country code: PL Ref legal event code: T3
EP1799573 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090310 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP1799573 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP1799573 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP1799573 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP1799573 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090410 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP1799573 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090310 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP1799573 B1	20090928	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HU Ref document number: E005715 Ref legal event code: AG4A Country of Ref document: HU
EP1799573 B1	20090930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP1799573 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP1799573 B1	20091118	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20090911
EP1799573 B1	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090430 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP1799573 B1	20110429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090408 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1799573 B1	20110630	LSAS	REG	REFERENCE TO A NATIONAL CODE	OldParty: CREANOVA UNIVERSAL CLOSURES LTD.#5 SHANNON POINT#OAKFIELD CLOSE, TEWKESBURY BUSINESS PARK TEWKESBURY GL20 8PF (GB) -

					TRANSFER TO- CREANOVA UNIVERSAL CLOSURES LTD.#5 SHANNON POINT#OAKFIELD CLOSE, TEWKESBURY BUSINESS PARK TEWKESBURY GL20 8PF (GB) Owner: CREANOVA UNIVERSAL CLOSURES LTD. PartyType: owner Ref country code: CH Ref legal event code: PFA
EP1799573 B1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP1799573 B1	20160421	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 12
EP1799573 B1	20170419	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 13
EP1799573 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170323 Year of fee payment: 13 Country of Ref document: PL
EP1799573 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170419 Year of fee payment: 13 Country of Ref document: NL
EP1799573 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170328 Year of fee payment: 13 Country of Ref document: TR
EP1799573 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170419 Year of fee payment: 13 Country of Ref document: CH
EP1799573 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170419 Year of fee payment: 13 Country of Ref document: GB
EP1799573 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170425 Year of fee payment: 13 Country of Ref document: GR
EP1799573 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170419 Year of fee payment: 13 Country of Ref document: DE
EP1799573 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170407 Year of fee payment: 13 Country of Ref document: CZ
EP1799573 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170419 Year of fee payment: 13 Country of Ref document: FR
EP1799573 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170421 Year of fee payment: 13 Country of Ref document: IE
EP1799573 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170419 Year of fee payment: 13 Country of Ref document: BE
EP1799573 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170510 Year of fee payment: 13 Country of Ref document: ES
EP1799573 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170406 Year of fee payment: 13 Country of Ref document: PT
EP1799573 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM	Payment date: 20170424 Year of fee payment: 13 Country of Ref document: IT

				NATIONAL OFFICE TO EPO]	
EP1799573 B1	20170929	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170419 Year of fee payment: 13 Country of Ref document: HU
EP1799573 B1	20170929		REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PCAR Text: NEW ADDRESS: BELLERIVESTRASSE 203 POSTFACH, 8034 ZUERICH (CH)
EP1799573 B1	20180420	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 14
EP1799573 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180323 Year of fee payment: 14 Country of Ref document: PL
EP1799573 B1	20180629	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180418 Year of fee payment: 14 Country of Ref document: NL
EP1799573 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180409 Year of fee payment: 14 Country of Ref document: CZ
EP1799573 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180525 Year of fee payment: 14 Country of Ref document: ES
EP1799573 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180419 Year of fee payment: 14 Country of Ref document: CH
EP1799573 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180424 Year of fee payment: 14 Country of Ref document: IE
EP1799573 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180420 Year of fee payment: 14 Country of Ref document: DE
EP1799573 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180404 Year of fee payment: 14 Country of Ref document: PT
EP1799573 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180418 Year of fee payment: 14 Country of Ref document: BE
EP1799573 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180420 Year of fee payment: 14 Country of Ref document: FR
EP1799573 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180413 Year of fee payment: 14 Country of Ref document: GR
EP1799573 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180406 Year of fee payment: 14 Country of Ref document: TR
EP1799573 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180423 Year of fee payment: 14 Country of Ref document: IT
EP1799573 B1	20180928	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180413 Year of fee payment: 14 Country of Ref document: HU
EP1799573 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180418 Year of fee payment: 14 Country of Ref document: GB

EP1799573 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190321 Year of fee payment: 15 Country of Ref document: PL
EP1799573 B1	20190531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190329 Year of fee payment: 15 Country of Ref document: TR
EP1799573 B1	20190628	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190418 Year of fee payment: 15 Country of Ref document: NL
EP1799573 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190429 Year of fee payment: 15 Country of Ref document: IT
EP1799573 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190325 Year of fee payment: 15 Country of Ref document: PT
EP1799573 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190521 Year of fee payment: 15 Country of Ref document: ES
EP1799573 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190418 Year of fee payment: 15 Country of Ref document: IE
EP1799573 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190329 Year of fee payment: 15 Country of Ref document: CZ
EP1799573 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190418 Year of fee payment: 15 Country of Ref document: DE
EP1799573 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190418 Year of fee payment: 15 Country of Ref document: BE
EP1799573 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190415 Year of fee payment: 15 Country of Ref document: HU
EP1799573 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190418 Year of fee payment: 15 Country of Ref document: FR
EP1799573 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190412 Year of fee payment: 15 Country of Ref document: GR
EP1799573 B1	20190930	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190418 Year of fee payment: 15 Country of Ref document: CH
EP1799573 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190418 Year of fee payment: 15 Country of Ref document: GB
EP1799573 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200323 Year of fee payment: 16 Country of Ref document: PT
EP1799573 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200324 Year of fee payment: 16 Country of Ref document: PL
EP1799573 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200407 Year of fee payment: 16 Country of Ref document: TR

EP1799573 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200420 Year of fee payment: 16 Country of Ref document: CH
EP1799573 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200420 Year of fee payment: 16 Country of Ref document: IE
EP1799573 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200629 Year of fee payment: 16 Country of Ref document: ES
EP1799573 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200420 Year of fee payment: 16 Country of Ref document: FR
EP1799573 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200414 Year of fee payment: 16 Country of Ref document: GR
EP1799573 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200427 Year of fee payment: 16 Country of Ref document: NL
EP1799573 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200420 Year of fee payment: 16 Country of Ref document: DE
EP1799573 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200408 Year of fee payment: 16 Country of Ref document: CZ
EP1799573 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200428 Year of fee payment: 16 Country of Ref document: IT
EP1799573 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200427 Year of fee payment: 16 Country of Ref document: BE
EP1799573 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200521 Year of fee payment: 16 Country of Ref document: HU
EP1799573 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200427 Year of fee payment: 16 Country of Ref document: GB
EP1799573 B1	20250408	PEXP		Calculated Patent Term Expiry	
EP1799574 A1	20070627	LSPB	+	published / reissued	
EP1799574 A1	20070627	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20070402
EP1799574 A1	20070627		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1799574 A1	20070905		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: DRUITT, RODNEY PartyType: inventor
EP1799574 A1	20070905		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: LAGLER, LOUIS PartyType: inventor
EP1799574 A1	20071012		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1101158 Ref legal event code: DE Country of Ref document: HK
EP1799574 A1	20071205		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP1799574 A1	20151030	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM	Payment date: 20150928 Year of fee payment: 11 Country of Ref document: ES

				NATIONAL OFFICE TO EPO]	
EP1799574 A1	20151130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20150826 Year of fee payment: 11 Country of Ref document: TR
EP1799574 A1	20151130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20150918 Year of fee payment: 11 Country of Ref document: BE
EP1799574 A1	20151231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20150924 Year of fee payment: 11 Country of Ref document: IT
EP1799574 A1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160920 Year of fee payment: 12 Country of Ref document: CH
EP1799574 A1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160921 Year of fee payment: 12 Country of Ref document: DE
EP1799574 A1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160920 Year of fee payment: 12 Country of Ref document: GB
EP1799574 A1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160921 Year of fee payment: 12 Country of Ref document: GR
EP1799574 A1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160921 Year of fee payment: 12 Country of Ref document: FR
EP1799574 A1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160922 Year of fee payment: 12 Country of Ref document: IT
EP1799574 B1	20080123	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1799574 B1	20080123		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1799574 B1	20080123	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP1799574 B1	20080123		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: DRUITT, RODNEY PartyType: inventor
EP1799574 B1	20080123		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: LAGLER, LOUIS PartyType: inventor
EP1799574 B1	20080215	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP1799574 B1	20080305	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP1799574 B1	20080313		REF	CORRESPONDS TO:	Date of Ref document: 20080313 Kind code of Ref document: P Ref document number: 602005004565 Country of Ref document: DE
EP1799574 B1	20080320	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1101158 Ref legal event code: GR Country of Ref document: HK
EP1799574 B1	20080422		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20080411 Ref country code: PT Ref legal event code: SC4A Text: AVAILABILITY OF NATIONAL TRANSLATION
EP1799574 B1	20080430		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: CH Ref legal event code: NV Representative: RENTSCH & PARTNER
EP1799574 B1	20080521	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GR Ref document number:

					20080400960 Ref legal event code: EP Country of Ref document: GR
EP1799574 B1	20080630		REG	REFERENCE TO A NATIONAL CODE	Ref country code: PL Ref legal event code: T3
EP1799574 B1	20080701	LSGT	REG	REFERENCE TO A NATIONAL CODE	Kind code of Ref document: T3 Ref country code: ES Ref document number: 2302235 Ref legal event code: FG2A Country of Ref document: ES
EP1799574 B1	20080731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP1799574 B1	20080731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080523 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP1799574 B1	20080829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080423 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP1799574 B1	20080829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP1799574 B1	20080926		+ET	FR: TRANSLATION FILED	
EP1799574 B1	20080929	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HU Ref document number: E003384 Ref legal event code: AG4A Country of Ref document: HU
EP1799574 B1	20080930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP1799574 B1	20080930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP1799574 B1	20081031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP1799574 B1	20081031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP1799574 B1	20081031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080423 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP1799574 B1	20081031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP1799574 B1	20081128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO

EP1799574 B1	20081128	LSRE	+PGRI	PATENT REINSTATED IN CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Reinstated date: 20080925 Country of Ref document: AT
EP1799574 B1	20081231	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20081024
EP1799574 B1	20090130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP1799574 B1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP1799574 B1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080930 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP1799574 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP1799574 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080901 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1799574 B1	20110630	LSAS	REG	REFERENCE TO A NATIONAL CODE	OldParty: CREANOVA UNIVERSAL CLOSURES LTD.#24 BEVIS MARKS#LONDON EC3A 7NR (GB) - TRANSFER TO- CREANOVA UNIVERSAL CLOSURES LTD.#24 BEVIS MARKS#LONDON EC3A 7NR (GB) Owner: CREANOVA UNIVERSAL CLOSURES LTD. PartyType: owner Ref country code: CH Ref legal event code: PFA
EP1799574 B1	20160921	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 12 Country of Ref document: FR
EP1799574 B1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160920 Year of fee payment: 12 Country of Ref document: NL
EP1799574 B1	20161031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160923 Year of fee payment: 12 Country of Ref document: IE
EP1799574 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160921 Year of fee payment: 12 Country of Ref document: AT
EP1799574 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160915 Year of fee payment: 12 Country of Ref document: HU
EP1799574 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160901 Year of fee payment: 12 Country of Ref document: PT
EP1799574 B1	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160823 Year of fee payment: 12 Country of Ref document: PL
EP1799574 B1	20161230	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160823 Year of fee payment: 12 Country of Ref document: TR

EP1799574 B1	20161230	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160916 Year of fee payment: 12 Country of Ref document: ES
EP1799574 B1	20161230	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160920 Year of fee payment: 12 Country of Ref document: BE
EP1799574 B1	20170928	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 13
EP1799574 B1	20170929		REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PCAR Text: NEW ADDRESS: BELLERIVESTRASSE 203 POSTFACH, 8034 ZUERICH (CH)
EP1799574 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170926 Year of fee payment: 13 Country of Ref document: IT
EP1799574 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170919 Year of fee payment: 13 Country of Ref document: GR
EP1799574 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170921 Year of fee payment: 13 Country of Ref document: CH
EP1799574 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170928 Year of fee payment: 13 Country of Ref document: DE
EP1799574 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170928 Year of fee payment: 13 Country of Ref document: FR
EP1799574 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170921 Year of fee payment: 13 Country of Ref document: GB
EP1799574 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170922 Year of fee payment: 13 Country of Ref document: AT
EP1799574 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170918 Year of fee payment: 13 Country of Ref document: HU
EP1799574 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170901 Year of fee payment: 13 Country of Ref document: PT
EP1799574 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170824 Year of fee payment: 13 Country of Ref document: TR
EP1799574 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170921 Year of fee payment: 13 Country of Ref document: BE
EP1799574 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170823 Year of fee payment: 13 Country of Ref document: PL
EP1799574 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170928 Year of fee payment: 13 Country of Ref document: IE
EP1799574 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170921 Year of fee payment: 13 Country of Ref document: NL
EP1799574 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE	Payment date: 20171026 Year of fee payment: 13

				[ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Country of Ref document: ES
EP1799574 B1	20180925	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 14
EP1799574 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180925 Year of fee payment: 14 Country of Ref document: FR
EP1799574 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180920 Year of fee payment: 14 Country of Ref document: DE
EP1799574 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180919 Year of fee payment: 14 Country of Ref document: CH
EP1799574 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180919 Year of fee payment: 14 Country of Ref document: GB
EP1799574 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180920 Year of fee payment: 14 Country of Ref document: AT
EP1799574 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20181022 Year of fee payment: 14 Country of Ref document: ES
EP1799574 B1	20190508		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20181001 Ref country code: NL Ref legal event code: MM
EP1799574 B1	20190531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190301 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PT
EP1799574 B1	20190612		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20180930 Ref country code: BE Ref legal event code: MM
EP1799574 B1	20190626	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP1799574 B1	20190628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20181001 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: NL
EP1799574 B1	20190731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180901 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP1799574 B1	20190731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180901 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IT
EP1799574 B1	20190830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180930 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP1799574 B1	20190830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180902 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: HU
EP1799574 B1	20190830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO	Lapsed date: 20190402 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GR

				EPO]	
EP1799574 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190918 Year of fee payment: 15 Country of Ref document: DE
EP1799574 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190926 Year of fee payment: 15 Country of Ref document: FR
EP1799574 B1	20191231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190920 Year of fee payment: 15 Country of Ref document: GB
EP1799574 B1	20191231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190919 Year of fee payment: 15 Country of Ref document: AT
EP1799574 B1	20200131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190919 Year of fee payment: 15 Country of Ref document: CH
EP1799574 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180901 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PL
EP1799574 B1	20200228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20191022 Year of fee payment: 15 Country of Ref document: ES
EP1799574 B1	20250901	PEXP		Calculated Patent Term Expiry	
EP1879807 A2	20080123	LSPB	+	published / reissued	
EP1879807 A2	20080123	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20071207
EP1879807 A2	20080123		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
EP1879807 A2	20080213		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: DRUITT, ROD PartyType: inventor
EP1879807 A2	20080326		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: DRUITT, ROD PartyType: inventor
EP1879807 A2	20080618		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP1879807 A2	20090107	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20081203
EP1879807 A2	20100908	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20100322
EP1985549 A1	20081029	LSPB	+	published / reissued	
EP1985549 A1	20081029		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 1789336 Country of Ref document: EP
EP1985549 A1	20081029		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1985549 A1	20090325	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20090212
EP1985549 A1	20090403		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1120482 Ref legal event code: DE Country of Ref document: HK
EP1985549 A1	20090422	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20090320
EP1985549 A1	20090708	LSFE	+AKX	DESIGNATION FEES PAID	Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

EP1985549 A1	20100120	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20090731
EP1985549 A1	20150227	LSWD	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1120482 Ref legal event code: WD Country of Ref document: HK
EP2065314 A2	20090603	LSPB	+	published / reissued	
EP2065314 A2	20090603	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20090109
EP2065314 A2	20090603		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 1799573 Country of Ref document: EP
EP2065314 A2	20090603		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
EP2065314 A3	20090916		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A3 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
EP2065314 A3	20100519	LSFE	+AKX	DESIGNATION FEES PAID	Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
EP2065314 A3	20100922	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20100317
ES2302235 T3	20080701	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2302235 T3	20250901	PEXP		Calculated Patent Term Expiry	
ES2313457 T3	20090301	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2313457 T3	20250802	PEXP		Calculated Patent Term Expiry	
ES2319554 T3	20090508	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2319554 T3	20250408	PEXP		Calculated Patent Term Expiry	
HK1099893 A1	20070824	LSPB	+	published / reissued	
HK1099893 A1	20270712	PEXP		Calculated Patent Term Expiry	
HK1099893 A3	20070824	LSPB	+	published / reissued	
HK1099893 B	20090220	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1099893 B	20270712	PEXP		Calculated Patent Term Expiry	
HK1101158 A1	20071012	LSPB	+	published / reissued	
HK1101158 A1	20270827	PEXP		Calculated Patent Term Expiry	
HK1101158 A3	20071012	LSPB	+	published / reissued	
HK1101158 B	20080320	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1101158 B	20270827	PEXP		Calculated Patent Term Expiry	
HK1101817 A1	20071026	LSPB	+	published / reissued	
HK1101817 A1	20270911	PEXP		Calculated Patent Term Expiry	
HK1101817 A3	20071026	LSPB	+	published / reissued	
HK1101817 B	20090409	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1101817 B	20270911	PEXP		Calculated Patent Term Expiry	
HK1120482 A1	20090403	LSPB	+	published / reissued	
HK1120482 A3	20090403	LSPB	+	published / reissued	
IL181627 A0	20110331	LSFE	+KB	PATENT RENEWED	
IL181627 A0	20110831	LSFE	+KB	PATENT RENEWED	
IL181627 A0	20150730	LSFE	+KB	PATENT RENEWED	
IL181627 A0	20190829	LSFE	+KB	PATENT RENEWED	
IL181627 A1	20101031	LSPB	+	published / reissued	
IN01352CN2007 A	20070831	LSPB	+	published / reissued	
IN255199 B	20130208	LSGT	+	granted / extensions	

				(spc, cpc, pte)	
IN255199 B	20270402	PEXP		Calculated Patent Term Expiry	
JP2008511505 T2	20080417	LSPB	+	published / reissued	
JP2008511505 T2	20080708	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20080707 Text: JAPANESE INTERMEDIATE CODE: A621
JP2008511505 T2	20110127		A977	REPORT ON RETRIEVAL	Effective date: 20110127 Text: JAPANESE INTERMEDIATE CODE: A971007
JP2008511505 T2	20110209	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20110208 Text: JAPANESE INTERMEDIATE CODE: A131
JP2008511505 T2	20110510		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Effective date: 20110509 Text: JAPANESE INTERMEDIATE CODE: A601
JP2008511505 T2	20110517		A602	WRITTEN PERMISSION OF EXTENSION OF TIME	Effective date: 20110516 Text: JAPANESE INTERMEDIATE CODE: A602
JP2008511505 T2	20110526	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20110525 Text: JAPANESE INTERMEDIATE CODE: A523
JP2008511505 T2	20110713	LSRV	-A02	DECISION OF REFUSAL	Effective date: 20110712 Text: JAPANESE INTERMEDIATE CODE: A02
JP2008511505 T2	20111115	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20111114 Text: JAPANESE INTERMEDIATE CODE: A523
JP2008511505 T2	20111119	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20111118 Text: JAPANESE INTERMEDIATE CODE: A523
JP2008511505 T2	20111222	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20111205 Text: JAPANESE INTERMEDIATE CODE: A523
JP2008511505 T2	20120106	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	Effective date: 20120105 Text: JAPANESE INTERMEDIATE CODE: A911
JP2008511505 T2	20120208	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20120207 Text: JAPANESE INTERMEDIATE CODE: A131
JP2008511505 T2	20120211	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20120210 Text: JAPANESE INTERMEDIATE CODE: A523
JP2008511505 T2	20120223	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2008511505 T2	20120229	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	Effective date: 20120228 Text: JAPANESE INTERMEDIATE CODE: A01
JP2008511505 T2	20120301	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	Text: JAPANESE INTERMEDIATE CODE: A01
JP2008511505 T2	20120315	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	Effective date: 20120307 Text: JAPANESE INTERMEDIATE CODE: A61
JP2008511505 T2	20120316	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	Year of fee payment: 3
JP4949250 B2	20120301	LSGT	+A01	特許査定書	
JP4949250 B2	20120313	LSFE	R100	特許料納付書	
JP4949250 B2	20120316	LSGT	+R150	特許証	
JP4949250 B2	20120606	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4949250 B2	20150312	LSFE	R20	特許料納付書	
JP4949250 B2	20150317	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
JP4949250 B2	20150317	LSFE	+R250	年金領収書, 年金領収書 (分納)	
JP4949250 B2	20160310	LSFE	R20	特許料納付書	
JP4949250 B2	20160315	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
JP4949250 B2	20160315	LSFE	+R250	年金領収書, 年金領収書	

				(分納)	
JP4949250 B2	20170309	LSFE	R20	特許料納付書	
JP4949250 B2	20170314	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
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JP4949250 B2	20200312	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
JP4949250 B2	20200312	LSFE	+R250	年金領収書, 年金領収書 (分納)	Effective date: 20200327
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KR101233851 B1	20130215	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101233851 B1	20160205	LSFE	FPAY	ANNUAL FEE PAYMENT	Payment date: 20160205 Year of fee payment: 4
KR101233851 B1	20180126	LSFE	FPAY	ANNUAL FEE PAYMENT	Payment date: 20180126 Year of fee payment: 6
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KR101233851 B1	20200303	LSFE	FPAY	ANNUAL FEE PAYMENT	Payment date: 20200303 Year of fee payment: 8
KR101233851 B1	20250802	PEXP		Calculated Patent Term Expiry	
KR20070061852 A	20070614	LSPB	+	published / reissued	
KR20070061852 A	20100402	LSES	A201	REQUEST FOR EXAMINATION	
KR20070061852 A	20121120	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20070061852 A	20130208	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
MA28917 B1	20071001	LSGT	+	granted / extensions (spc, cpc, pte)	
MA28917 B1	20270403	PEXP		Calculated Patent Term Expiry	
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MX2007002498 A1	20091202	LSGT	+FG	GRANT OR REGISTRATION	
MX2007002498 A1	20100812	LSRE	HH	CORRECTION OR CHANGE IN GENERAL	
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NZ553850 A	20110128	LSGT	+PSEA	PATENT SEALED	
NZ553850 A	20110527	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ553850 A	20150731	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	Effective date: 20150721 Text: PATENT RENEWED FOR 1 YEAR UNTIL 02 AUG 2016 BY DENNEMEYER + CO.
NZ553850 A	20160729	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	Effective date: 20160722 Text: PATENT RENEWED FOR 1 YEAR UNTIL 02 AUG 2017 BY DENNEMEYER + CO.
NZ553850 A	20170728	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	Effective date: 20170726 Text: PATENT RENEWED FOR 1 YEAR UNTIL 02 AUG 2018 BY DENNEMEYER + CO
NZ553850 A	20180831	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	Effective date: 20180802 Text: PATENT RENEWED FOR 1 YEAR UNTIL 02 AUG 2019 BY DENNEMEYER + CO

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PL1799573 T3	20090529	LSGT	+	granted / extensions (spc, cpc, pte)	
PL1799574 T3	20080630	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1789336 T	20081128	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1789336 T	20250802	PEXP		Calculated Patent Term Expiry	
PT1799573 T	20090318	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1799573 T	20250408	PEXP		Calculated Patent Term Expiry	
PT1799574 T	20080422	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1799574 T	20250901	PEXP		Calculated Patent Term Expiry	
TH40759 B	20140708	LSGT	+	granted / extensions (spc, cpc, pte)	
TH40759 B	20260223	PEXP		Calculated Patent Term Expiry	
TH41104 B	20140814	LSGT	+	granted / extensions (spc, cpc, pte)	
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TH81435 A	20061123	LSPB	+	published / reissued	
TH81829 A	20061214	LSPB	+	published / reissued	
TH82662 A	20070125	LSPB	+	published / reissued	
TH83086 A	20070215	LSPB	+	published / reissued	
UA87870 C2	20090825	LSGT	+	granted / extensions (spc, cpc, pte)	
UA87870 C2	20250802	PEXP		Calculated Patent Term Expiry	
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US2008169261 AA	20080717	LSPB	+	published / reissued	
US2008169261 AA	20140207	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:DRUITT, RODNEY;LAGLER, LOUIS;SIGNING DATES FROM 20140131 TO 20140205;REEL/FRAME:032172/0546 Owner: CREANOVA UNIVERSAL CLOSURES, LTD., UNITED KINGDOM PartyType: owner
US2008169261 AA	20140507	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2008272083 AA	20080414	LSAS	AS	ASSIGNMENT	Effective date: 20071009 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:DRUITT, RODNEY M.;REEL/FRAME:020798/0591 Owner: CREANOVA UNIVERSAL CLOSURES LTD., UNITED KINGDOM PartyType: owner
US2008272083 AA	20081106	LSPB	+	published / reissued	
US2008272083 AA	20111024	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
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				APPLICATION DISCONTINUATION	
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US7905820 BB	20080815	LSAS	AS	ASSIGNMENT	Effective date: 20080325 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:DRUITT, RODNEY M;REEL/FRAME:021396/0844 Owner: CREANOVA UNIVERSAL CLOSURE LTD., UNITED KINGDOM PartyType: owner
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US7905820 BB	20180904	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 8
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US8733566 BB	20140507	LSGT	PAT1	Patented Case	
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WO06117024 A1	20070228	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/a/2007/002498 Country of Ref document: MX
WO06117024 A1	20070301	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2007528817 Country of Ref document: JP
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WO06117024 A1	20070313	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2005857768 Country of Ref document: EP
WO06117024 A1	20070314	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2005331483 Country of Ref document: AU
WO06117024 A1	20070314	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 553850 Country of Ref document: NZ
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WO06117024 A1	20070319	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: DZP2007000186 Country of Ref document: DZ
WO06117024 A1	20070330	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1020077007476 Country of Ref document: KR
WO06117024 A1	20070402	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1352/CHENP/2007 Country of Ref document: IN
WO06117024 A1	20070403	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200700511 Country of Ref document: EA
WO06117024 A1	20070405	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 20050802 Kind code of Ref document: A Ref document number: 2005331483 Country of Ref document: AU
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WO06117024 A1	20070418	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200580035668.9 Country of Ref document: CN
WO06117024 A1	20070530	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 2005857768 Country of Ref document: EP
WO06117024 A1	20071025	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 11574569 Country of Ref document: US
WO06117024 A1	20080320	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 11574569 Country of Ref document: US
WO06117024 A1	20080624	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: PI0514822 Country of Ref document: BR
WO06117024 A1	20080820	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 2005857768 Country of Ref document: EP
ZA200702221 A	20080925	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200702221 A	20270315	PEXP		Calculated Patent Term Expiry	

16) Family number: 45439084 (US2011303670 AA)

Title: SECURE CLOSURE

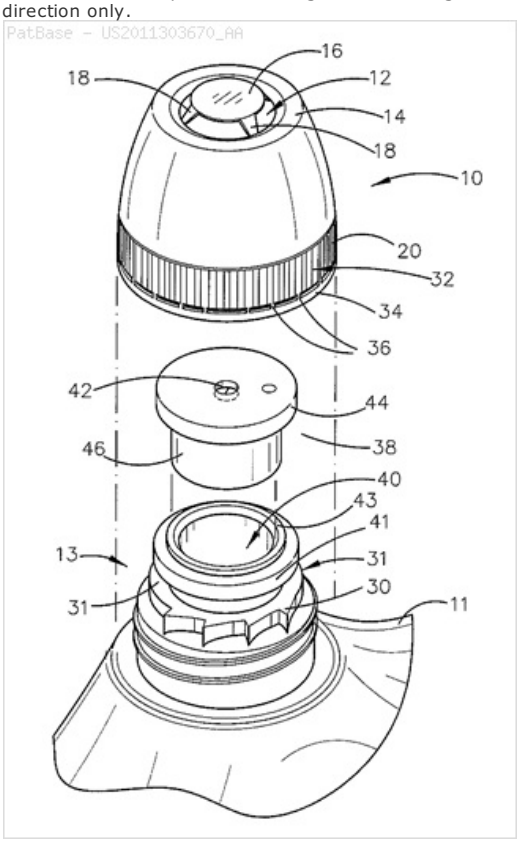
Abstract: A cap for closing a container comprising an openable access port located at or towards one end of the cap through which contents of the container can be dispensed when the access port is in an opened condition, an internal wall surface for engaging with one or more parts of an external surface of the container, a first part of a securing means located on the internal wall surface of the cap, the first part of the securing means for cooperatively engaging with second part of the securing means located on the external surface of the container to prevent removal of the cap from the container when the cap is located in a sealing condition on the container thereby preventing removal of the cap from the container, in that the engaging elements form a ratchet arrangement or a ratchet and pawl like arrangement allowing rotational movement of the cap with respect to the container in one direction only.

Classifications:

International (IPC 8-9): A61J1/00 A61J1/05 A61M5/00 B65D39/00 B65D39/04 B65D39/08 B65D41/04 B65D41/32 B65D41/34 B65D43/26 B65D45/00 B65D47/00 B65D47/36 B65D50/00 B65D51/18 B65D51/20

CPC: A61J1/1418 A61J1/1468 A61J1/1475 A61J1/18 B65D2251/0015 B65D2251/0025 B65D2251/0075 B65D2251/009 B65D41/0471 B65D41/3409 B65D41/3447 B65D47/36 B65D51/002 B65D51/18 B65D51/20 B65D55/022

US: 220/254.9 220/254.900S 220/257.1 220/257.100P 220/258.3 220/258.300S 220/285 220/285S 220/328 220/328S



Family:

Publication number	Publication date	Application number	Application date
AU2009326855 AA	20110630	AU20090326855	20091209
CA2746068 AA	20100617	CA20092746068	20091209
EP2361197 A1	20110831	EP20090831312	20091209
EP2361197 A4	20121226	EP20090831312	20091209
IN04658DN2011 A	20120420	IN2011DN04658	20110617
JP2012511473 T2	20120524	JP20110539846T	20091209
NZ593323 A	20140228	NZ20090593323	20091209
US2011303670 AA	20111215	US20090133896	20091209
WO10065998 A1	20100617	WO2009AU01598	20091209

Priority:

AU20080906377 20081210 WO2009AU01598 20091209 AU20090326855 20091209

Probable Assignee: BAKER RAYMOND

Assignee(s): (std): BAKER RAYMOND ; BAKER RAYMOND JOHN ; RAYMOND JOHN BAKER

Inventor(s): (std): BAKER RAYMOND JOHN ; JOHN BAKER RAYMOND

Agent(s): DELORME NICOLAS; GRIFFITH HACK; OYEN WIGGS GREEN AND MUTALA LLP

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)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2009326855 AA	20100617	LSPB	+	published / reissued	
AU2009326855 AA	20141204	LSLE	-MK1	APPLICATION LAPSED SECTION 142(2)(A) - NO REQUEST FOR EXAMINATION IN RELEVANT PERIOD	

CA2746068 AA	20100617	LSPB	+	published / reissued	
CA2746068 AA	20160120	LSLE	-FZDE	DEAD	Effective date: 20151209
EP2361197 A1	20110831	LSPB	+	published / reissued	
EP2361197 A1	20110831	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20110623
EP2361197 A1	20110831		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT 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 SE SI SK SM TR
EP2361197 A1	20120321		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP2361197 A4	20121226	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	Effective date: 20121123
EP2361197 A4	20121226		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: A61M 5/00 20060101ALI20121119BHEP
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EP2361197 A4	20121226		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 39/08 20060101AFI20121119BHEP
EP2361197 A4	20121226		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 47/36 20060101ALI20121119BHEP
EP2361197 A4	20121226		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: A61J 1/00 20060101ALI20121119BHEP
EP2361197 A4	20131016	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20130917
EP2361197 A4	20150318	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20141017
IN04658DN2011 A	20120420	LSPB	+	published / reissued	
JP2012511473 T2	20120524	LSPB	+	published / reissued	
JP2012511473 T2	20120629	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20120628 Text: JAPANESE INTERMEDIATE CODE: A621
JP2012511473 T2	20130703	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20130702 Text: JAPANESE INTERMEDIATE CODE: A131
JP2012511473 T2	20131002		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Effective date: 20131001 Text: JAPANESE INTERMEDIATE CODE: A601
JP2012511473 T2	20131009		A602	WRITTEN PERMISSION OF EXTENSION OF TIME	Effective date: 20131008 Text: JAPANESE INTERMEDIATE CODE: A602
JP2012511473 T2	20131227	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20131226 Text: JAPANESE INTERMEDIATE CODE: A523
JP2012511473 T2	20140702	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20140701 Text: JAPANESE INTERMEDIATE CODE: A131
JP2012511473 T2	20141126	LSRV	-A02	DECISION OF REFUSAL	Effective date: 20141125 Text: JAPANESE INTERMEDIATE CODE: A02
NZ593323 A	20140228	LSPB	+	published / reissued	
NZ593323 A	20140627	LSGT	+PSEA	PATENT SEALED	
NZ593323 A	20150424	LSLE	-LAPS	PATENT LAPSED	
US2011303670 AA	20111215	LSPB	+	published / reissued	
US2011303670 AA	20141117	LSWD	ABD3	Abandoned -- Failure to Respond to an Office	

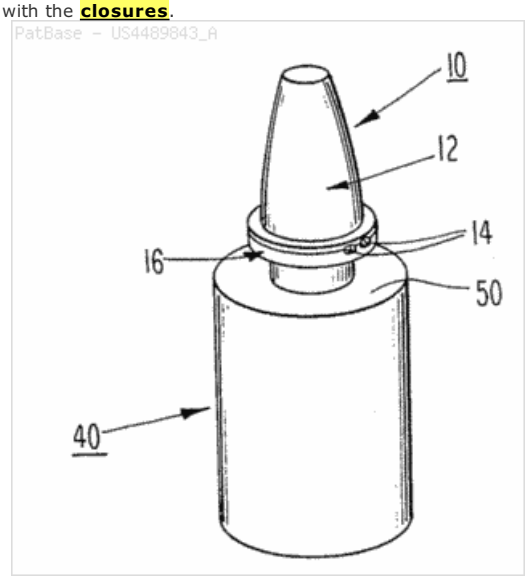
				Action	
US2011303670 AA	20141117		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
WO10065998 A1	20100617	LSPB	+	published / reissued	
WO10065998 A1	20100804		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 09831312 Country of Ref document: EP
WO10065998 A1	20101118		DPE1	REQUEST FOR PRELIMINARY EXAMINATION FILED AFTER EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED FROM 20040101)	
WO10065998 A1	20110608	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 593323 Country of Ref document: NZ
WO10065998 A1	20110608	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2746068 Country of Ref document: CA
WO10065998 A1	20110609	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2011539846 Country of Ref document: JP
WO10065998 A1	20110610	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO10065998 A1	20110617	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 4658/DELNP/2011 Country of Ref document: IN
WO10065998 A1	20110623	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2009831312 Country of Ref document: EP
WO10065998 A1	20110630	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 20091209 Kind code of Ref document: A Ref document number: 2009326855 Country of Ref document: AU
WO10065998 A1	20110826	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 13133896 Country of Ref document: US

17) Family number: 4607726 (US4489843 A)

Title: **Tamper-evident** **closure** and **container**

Abstract: **Tamper-evident** **closures** include a threaded cap and a **tamper-evident** ring removably connected to each other by break-away tabs adapted to break when the cap is rotated in a direction to remove it from a cooperating **container**. The cap and ring have cooperating surfaces for transmitting closing rotational movement of the cap to the ring to thereby rotate the cap and ring together during closing of the **container** to thereby prevent separation of the cap from the ring at the break-away tabs. The ring further includes at least one **locking** surface adapted to engage a corresponding surface on a **container** to prevent the ring from rotating in the **opening** direction of rotation, whereby rotation of the **closure** to **open** it will cause relative movement between the cap and ring to sever the break-away tabs. A method of molding the cap, **tamper-evident** ring and break-away tabs as a single member also constitutes a part of the invention, as well as the particular **container** constructions adapted to cooperate with the **closures**.

Classifications:
International (IPC 8-9): B65D41/34
International (IPC 1-7): B65D41/34
CPC: B65D41/3409 B65D41/3428 B65D41/3433
US: 215/252 215/258 264/310 264/318 264/339



Family:

Publication number	Publication date	Application number	Application date
US4489843 A	19841225	US19830476147	19830317
US4547332 A	19851015	US19840638607	19840807

Priority:
US19830476147 19830317 US19840638607 19840807

Probable Assignee: CAPTIVE PLASTICS INC
Assignee(s): (std): CAPTIVE PLASTICS INC
Inventor(s): (std): DROZD JR EDWARD J

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4489843 A	19841025	LSGT	PAT1	Patented Case	
US4489843 A	19841225	LSGT	+	granted / extensions (spc, cpc, pte)	
US4489843 A	19880623	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US4489843 A	19920728		REMI	MAINTENANCE FEE REMINDER MAILED	
US4489843 A	19921227	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4489843 A	19930309	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 19921227
US4489843 A	20180123	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4489843 A	20180123	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US4547332 A	19850814	LSGT	PAT1	Patented Case	
US4547332 A	19851015	LSGT	+	granted / extensions (spc, cpc, pte)	
US4547332 A	19890414	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US4547332 A	19930525		REMI	MAINTENANCE FEE REMINDER MAILED	
US4547332 A	19931017	LSLE	-LAPS	LAPSE FOR FAILURE TO	

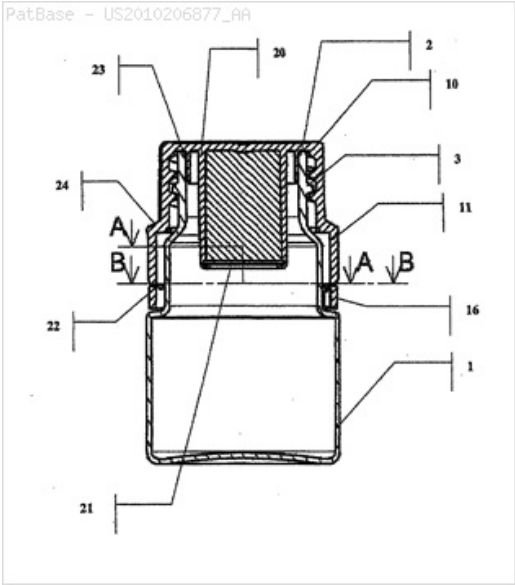
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US4547332 A	19931228	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 19891017
US4547332 A	20180123	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4547332 A	20180123	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

18) Family number: 42773233 (US2010206877 AA)

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

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).

Classifications:
International (IPC 8-9): B65D41/04 B65D41/34 B65D43/02 B65D43/04 B65D50/00 B65D50/04 B65D51/24 B65D51/30 B65D55/12
CPC: B65D41/3409 B65D50/046 B65D51/30
US: 215/216 215/217 215/220 215/256 220/288 220/801 220/801S



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

Priority:
FR20070004668 20070628 WO2008EP56894 20080604 EP20080760476 20080604

Probable Assignee: CLARIANT PRODUCTION FRANCE SAS
Assignee(s): (std): AIRSEC S A S ; AIRSEC SOC PAR ACTIONS SIMPLIF ; LOGEL VALERE ; SEBILLE VINCENT
Assignee(s): AIRSEC ; AIRSEC SOCIETE PAR ACTIONS SIMPLIFIEE ; CLARIANT PRODUCTION FRANCE SAS ; TCG SENIOR FUNDING LLC ADMINISTRATIVE AGENT AS
Inventor(s): (std): LOGEL VALERE ; SEBILLE VINCENT
Inventor(s): VALERE LOGEL ; VINCENT SEBILLE
Agent(s): CABINET PLASSERAUD; HOFFMANN EITLE; HOFFMANN EITLE ET AL; HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; PLASSERAUD IP; SCOTT R; SCOTT R COX LYNCH COX GILMAN AND MAHAN PSC
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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT520602 E	20110915	LSGT	+	granted / extensions (spc, cpc, pte)	
AT520602 E	20120215	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT520602 E	20280604	PEXP		Calculated Patent Term Expiry	
DE602008008961 D1	20130612	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PartyType: Owner Owner: Clariant Production (France)

					S.A.S., Trosly Breuil, FR OldParty: Airsec S.A.S., Choisy Le Roy, FR
EP2170719 A1	20100407	LSPB	+	published / reissued	
EP2170719 A1	20100407	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20100107
EP2170719 A1	20100407		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: 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
EP2170719 A1	20100407		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL BA MK RS
EP2170719 A1	20101006		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP2170719 A1	20110223		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	PartyType: inventor Inventor: LOGEL, VALERE
EP2170719 A1	20110223		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	PartyType: inventor Inventor: SEBILLE, VINCENT
EP2170719 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160421 Year of fee payment: 9 Country of Ref document: CH
EP2170719 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160415 Year of fee payment: 9 Country of Ref document: GB
EP2170719 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 9 Payment date: 20160502 Country of Ref document: DE
EP2170719 A1	20160831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160425 Year of fee payment: 9 Country of Ref document: FR
EP2170719 B1	20110817	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2170719 B1	20110817		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: 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
EP2170719 B1	20110817	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Ref country code: GB Text: NOT ENGLISH
EP2170719 B1	20110831		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Representative: NOVAGRAAF INTERNATIONAL SA Ref legal event code: NV Ref country code: CH
EP2170719 B1	20110831	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP2170719 B1	20110914	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Text: LANGUAGE OF EP DOCUMENT: FRENCH Ref legal event code: FG4D
EP2170719 B1	20111027	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: R096 Ref document number: 602008008961 Ref country code: DE Effective date: 20111027 Country of Ref document: DE
EP2170719 B1	20111207	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110817 Ref legal event code: VDEP Ref country code: NL
EP2170719 B1	20120125	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	Ref country code: EP Effective date: 20110817
EP2170719 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111219 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2170719 B1	20120131	LSLE	-PG25	LAPSED IN A	NotificationOfLapse: LAPSE

				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20110817 Country of Ref document: SE
EP2170719 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP2170719 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111217 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP2170719 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20111117 Country of Ref document: NO
EP2170719 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20110817 Country of Ref document: LT
EP2170719 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2170719 B1	20120215	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110817 Kind code of Ref document: T Ref document number: 520602 Ref country code: AT Ref legal event code: MK05 Country of Ref document: AT
EP2170719 B1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20110817 Country of Ref document: CY
EP2170719 B1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20110817 Country of Ref document: SI
EP2170719 B1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PL
EP2170719 B1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20110817 Country of Ref document: AT
EP2170719 B1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111118 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP2170719 B1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A

				POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP2170719 B1	20120314	LSWD	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FD4D Ref country code: IE
EP2170719 B1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IE
EP2170719 B1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2170719 B1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2170719 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP2170719 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20110817 Country of Ref document: RO
EP2170719 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IT
EP2170719 B1	20120629	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20110817 Country of Ref document: DK
EP2170719 B1	20120725	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20120521
EP2170719 B1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120328 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR
EP2170719 B1	20120913	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602008008961 Ref legal event code: R097 Effective date: 20120521 Country of Ref document: DE
EP2170719 B1	20121231	LSLE	-BERE	BE: LAPSED	Ref country code: EP PartyType: owner Effective date: 20120630 Owner: AIRSEC S.A.S.
EP2170719 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20120630 Country of Ref document: MC
EP2170719 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-

				NATIONAL OFFICE TO EPO]	LIMIT Lapsed date: 20111128 Country of Ref document: ES
EP2170719 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120630 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP2170719 B1	20130612		REG	REFERENCE TO A NATIONAL CODE	Ref document number: 602008008961 Representative: HOFFMANN - EITLE, DE Ref country code: DE PartyType: representative Ref legal event code: R082 Country of Ref document: DE
EP2170719 B1	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20111117 Country of Ref document: BG
EP2170719 B1	20130628	LSAS	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH PartyType: owner Owner: CLARIANT PRODUCTION (FRANCE) S.A.S., FR Ref legal event code: PFUS OldParty: FORMER OWNER: AIRSEC S.A.S., FR
EP2170719 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MT
EP2170719 B1	20130801		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130612 Ref document number: 602008008961 Ref legal event code: R082 PartyType: representative Representative: HOFFMANN - EITLE, DE Ref country code: DE Country of Ref document: DE
EP2170719 B1	20130801		REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: R082 PartyType: representative Ref document number: 602008008961 Representative: HOFFMANN - EITLE PATENT- UND RECHTSANWAELTE PA, DE Effective date: 20130612 Ref country code: DE Country of Ref document: DE
EP2170719 B1	20130801	LSAS	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: R081 Ref document number: 602008008961 Owner: CLARIANT PRODUCTION (FRANCE) S.A.S., FR Ref country code: DE PartyType: owner OldParty: FORMER OWNER: AIRSEC S.A.S., CHOISY LE ROY, FR Effective date: 20130612 Country of Ref document: DE
EP2170719 B1	20131002		REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: 732E Text: REGISTERED BETWEEN 20130905 AND 20130911
EP2170719 B1	20131011	LSAS	REG	REFERENCE TO A NATIONAL CODE	PartyType: owner Ref country code: FR Ref legal event code: TP Effective date: 20130910 Owner: CLARIANT PRODUCTION (FRANCE) S.A.S., FR
EP2170719 B1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20110817 Country of Ref document: HR
EP2170719 B1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110817 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

					Country of Ref document: TR
EP2170719 B1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20120604 Country of Ref document: LU
EP2170719 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20080604 Country of Ref document: HU
EP2170719 B1	20150430	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: PLFP Ref country code: FR Year of fee payment: 8
EP2170719 B1	20160425	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Year of fee payment: 9 Ref legal event code: PLFP
EP2170719 B1	20170629	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 10
EP2170719 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170629 Year of fee payment: 10 Country of Ref document: FR
EP2170719 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 10 Payment date: 20170627 Country of Ref document: CH
EP2170719 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 10 Payment date: 20170630 Country of Ref document: GB
EP2170719 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170831 Year of fee payment: 10 Country of Ref document: DE
EP2170719 B1	20180629	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Year of fee payment: 11 Ref legal event code: PLFP
EP2170719 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180629 Country of Ref document: FR
EP2170719 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180831 Country of Ref document: DE
EP2170719 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180629 Year of fee payment: 11 Country of Ref document: GB
EP2170719 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180705 Year of fee payment: 11 Country of Ref document: CH
EP2170719 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190626 Country of Ref document: FR
EP2170719 B1	20190930	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190625 Country of Ref document: CH
EP2170719 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190830 Year of fee payment: 12 Country of Ref document: DE
EP2170719 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190627 Country of Ref document: GB
EP2170719 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO	Year of fee payment: 13

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EP2170719 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200626 Year of fee payment: 13 Country of Ref document: FR
EP2170719 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200605 Year of fee payment: 13 Country of Ref document: GB
EP2170719 B1	20280604	PEXP		Calculated Patent Term Expiry	
FR2918041 A1	20090102	LSPB	+	published / reissued	
FR2918041 A1	20090102		SC	SEARCH COMPLETED	
FR2918041 A1	20090102		SC	SEARCH COMPLETED	BOPI Date: 2009-01
FR2918041 B1	20090925	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2918041 B1	20130910		TO	Transmission totale de propriété	
FR2918041 B1	20130910		TO	Transmission totale de propriété	Registered Number: 0196959 BOPI Date: 2013-41
FR2918041 B1	20131011	LSAS	TP	TRANSMISSION OF PROPERTY	PartyType: owner Owner: CLARIANT PRODUCTION (FRANCE) S.A.S., FR Effective date: 20130910
FR2918041 B1	20150430	LSFE	+PLFP	FEE PAYMENT	Year of fee payment: 9
FR2918041 B1	20160425	LSFE	+PLFP	FEE PAYMENT	Year of fee payment: 10
FR2918041 B1	20170629	LSFE	+PLFP	FEE PAYMENT	Year of fee payment: 11
FR2918041 B1	20180629	LSFE	+PLFP	FEE PAYMENT	Year of fee payment: 12
FR2918041 B1	20190626	LSFE	+PLFP	Fee Payement	Year of fee payment: 13 Payment date: 20190626
FR2918041 B1	20190626	LSFE	+PLFP	FEE PAYMENT	Year of fee payment: 13
FR2918041 B1	20270628	PEXP		Calculated Patent Term Expiry	
US2010206877 AA	20100819	LSPB	+	published / reissued	
US2010206877 AA	20121017	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US8302792 BB	20091223	LSAS	AS	ASSIGNMENT	Owner: AIRSEC S.A.S., FRANCE Effective date: 20090122 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:LOGEL, VALERE;SEBILLE, VINCENT;REEL/FRAME:023696/0338 PartyType: owner
US8302792 BB	20121017	LSGT	PAT1	Patented Case	
US8302792 BB	20121106	LSGT	+	granted / extensions (spc, cpc, pte)	
US8302792 BB	20130613	LSAS	AS	ASSIGNMENT	Owner: CLARIANT PRODUCTION (FRANCE) S.A.S., FRANCE OldParty: MERGER;ASSIGNOR:AIRSEC S.A.S.;REEL/FRAME:030603/0715 PartyType: owner Effective date: 20121231
US8302792 BB	20160503	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US8302792 BB	20191220	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 20191220 Owner: TCG SENIOR FUNDING L.L.C., AS ADMINISTRATIVE AGENT OldParty: SECURITY INTEREST;ASSIGNOR:AIRNOV, INC.;REEL/FRAME:051383/0684
US8302792 BB	20191220	LSAS	AS	ASSIGNMENT	Owner: TCG SENIOR FUNDING L.L.C., AS ADMINISTRATIVE AGENT, NEW YORK Effective date: 20191220 OldParty: SECURITY INTEREST;ASSIGNOR:AIRNOV, INC.;REEL/FRAME:051383/0684 PartyType: owner
US8302792 BB	20200430	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 8
US8302792 BB	20281127	PEXP		Calculated Patent Term Expiry (PTA 176	

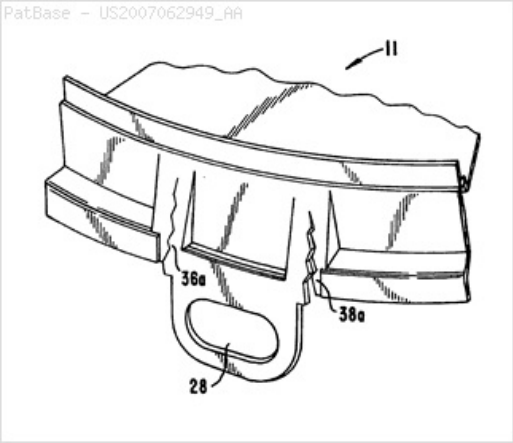
				days)	
WO09000616 A1	20081231	LSPB	+	published / reissued	
WO09000616 A1	20090129		DPE2	REQUEST FOR PRELIMINARY EXAMINATION FILED BEFORE EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED FROM 20040101)	
WO09000616 A1	20090225		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Ref document number: 08760476 Kind code of Ref document: A1 Country of Ref document: EP
WO09000616 A1	20091223	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 12666514 Country of Ref document: US
WO09000616 A1	20091229	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO09000616 A1	20100107	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2008760476 Country of Ref document: EP

19) Family number: 34325428 (US2007062949 AA)

Title: **LOCKING** **CONTAINER** LID APPARATUS AND METHOD

Abstract: A **container** lid includes a permanently or elastically deformed **tamper evident** feature that alerts the user that the **container** has been accessed. Moreover, the **tamper evident** feature requires no additional material and produces no extra waste.

Classifications:
International (IPC 8-9): B65D17/28 B65D17/34 B65D41/02 B65D41/18
CPC: B65D2543/00092 B65D2543/00296 B65D2543/00527 B65D2543/00537 B65D2543/00629 B65D2543/00694 B65D2543/00731 B65D2543/00805 B65D2543/00842 B65D43/0212
US: 220/268 220/270 220/780



Family:

Publication number	Publication date	Application number	Application date
US2007062949 AA	20070322	US20050223144	20050912

Priority:
US20050223144 20050912

Probable Assignee: GREIF INDUSTRIAL PACKAGING AND SERVICES LLC
Assignee(s): (std): BORDNER PAUL G
Assignee(s): GREIF INDUSTRIAL PACKAGING AND SERVICES LLC ; GREIF PACKAGING LLC ; GREIF SERVICES LLC
Inventor(s): (std): BORDNER PAUL G
Inventor(s): BORDNER PAUL
Agent(s): BAKER AND HOSTETLER LLP

Legal status (INPADOC)

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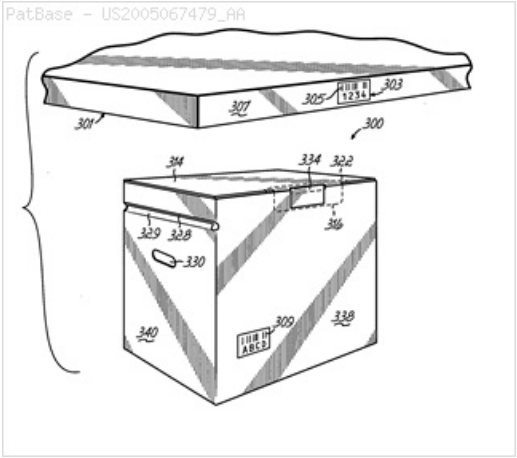
Patent	Date recorded	Event group	Code	Event	Details
US2007062949 AA	20051129	LSAS	AS	ASSIGNMENT	Effective date: 20051122 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:BORDNER, PAUL G.;REEL/FRAME:017074/0345 Owner: GREIF SERVICES, LLC, OHIO PartyType: owner
US2007062949 AA	20070322	LSPB	+	published / reissued	
US2007062949 AA	20080225	LSAS	AS	ASSIGNMENT	Effective date: 20071231 OldParty: MERGER;ASSIGNOR:GREIF SERVICES LLC;REEL/FRAME:020555/0021 Owner: GREIF INDUSTRIAL PACKAGING & SERVICES LLC, OHIO PartyType: owner
US2007062949 AA	20080225	LSAS	AS	ASSIGNMENT	Effective date: 20071231 OldParty: CHANGE OF NAME;ASSIGNOR:GREIF INDUSTRIAL PACKAGING & SERVICES LLC;REEL/FRAME:020555/0038 Owner: GREIF PACKAGING LLC, OHIO PartyType: owner
US2007062949 AA	20080925	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007062949 AA	20080925		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION

20) Family number: 31779146 (US2005067479 AA)

Title: ITEM COLLECTION BIN AND DISPOSAL METHOD

Abstract: A **tamper-evident** bin for collecting confidential items has a self-**locking** **closure** that allows one to determine whether there has been an unauthorized **opening** of the bin. On a requested or a scheduled basis, a disposal service retrieves the old **tamper-evident** bin, provides a new **tamper-evident** bin, and disposes of the old **tamper-evident** bin and all of its contents without ever **opening** the bin. The bins can also include respective identity codes that allow them to be easily tracked to determine whether there has been an unauthorized replacement of a bin. Optional temporary storage of selected bins allows a second chance access to the bins prior to destruction.

Classifications:
International (IPC 8-9): B65F1/14
International (IPC 1-7): B65D91/00
CPC: B65F1/1484 B65F2210/1121 B65F2210/1123 B65F2240/1562 B65F2250/106 Y02W30/64
US: 232/1 232/1.00RP 232/1R



Family:

Publication number	Publication date	Application number	Application date
US2005067479 AA	20050331	US20040819786	20040407

Priority:
US20030498631P 20030828 US20040819786 20040407

Probable Assignee: BUSINESS INFORMATION SERVICES LLC
Assignee(s): (std): BUSINESS INFORMATION SERVICES
Assignee(s): BUSINESS INFORMATION SERVICES LLC
Inventor(s): (std): ALBI FRANK J
Inventor(s): ALBI FRANK
Agent(s): WOOD HERRON AND EVANS LLP

Legal status (INPADOC)

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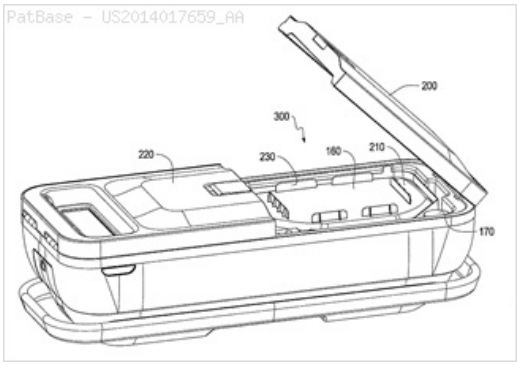
Patent	Date recorded	Event group	Code	Event	Details
US2005067479 AA	20040407	LSAS	AS	ASSIGNMENT	Effective date: 20040406 Owner: BUSINESS INFORMATION SERVICES, LLC, OHIO PartyType: owner OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:ALBI, FRANK J.;REEL/FRAME:015196/0818
US2005067479 AA	20050331	LSPB	+	published / reissued	
US2005067479 AA	20060810	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2005067479 AA	20060810		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION

21) Family number: 55623658 (US2014017659 AA)

Title: ORGAN TRANSPORT APPARATUS WITH A DOCUMENT COMPARTMENT AND A **TAMPER EVIDENT** SEAL

Abstract: A perfusion apparatus including a perfusion circuit that perfuses an organ or tissue has a compartment that supports an organ or tissue during perfusion, an internal cover, and an external cover that closes the apparatus. A wall portion may extend substantially perpendicularly between the internal cover and the external cover to define a document compartment between the internal cover, the external cover and the wall portion. A **tamper evident** seal will not permit the external cover to **open** without creating a record of whether the external cover has been **opened** after the **tamper evident** seal has been activated.

Classifications:
International (IPC 8-9): A01N A01N1/02
CPC: A01N1/0247 A01N1/0273
US: 1/1 435/1.1 435/1.2 435/284.1



Family:

Publication number	Publication date	Application number	Application date
BR112015000551 A2	20170627	BR20151100551	20130708
CA2917840 AA	20160108	CA20132917840	20130708
CN104735981 A	20150624	CN201380046784	20130708
CN104735981 B	20170329	CN201380046784	20130708
CN106719603 A	20170531	CN201611099527	20130708
EP2871946 A2	20150520	EP20130740123	20130708
HK1237594 A1	20180420	HK20170111970	20171116
JP2015527996 T2	20150924	JP20150521693T	20130708
JP6270836 B2	20180131	JP20150521693T	20130708
US2014017659 AA	20140116	US20120545184	20120710
US9357766 BB	20160607	US20120545184	20120710
WO14011557 A2	20140116	WO2013US49584	20130708
WO14011557 A3	20140403	WO2013US49584	20130708

Priority:
US20120545184 20120710 WO2013US49584 20130708 CN201380046784 20130708

Probable Assignee: LIFELINE SCIENTIFIC INC

Assignee(s): (std): ALLEN ROBERT J ; COPITHORNE MATTHEW ; DEMUYLDER PETER ; LIFELINE SCIENT INC ; OTTS BRIAN L ; PETTINATO DAVID ; STEINMAN CHRISTOPHER P

Assignee(s): LIFELINE SCIENTIFIC INC

Inventor(s): (std): ALLEN ROBERT J ; BRIAN L OTTS ; CHRISTOPHER P STEINMAN ; COPITHORNE MATTHEW ; DAVID PETTINATO ; DEMUYLDER PETER ; MATTHEW COPITHORNE ; OTTS BRIAN L ; PETER DEMUYLDER ; PETTINATO DAVID ; ROBERT J ALLEN ; STEINMAN CHRISTOPHER P

Agent(s): ARMSTRONG JOEL S; DELORME NICOLAS; OLIFF PLC; SHANGHAI INTELLECTUAL PROPERTY OFFICE; SMART AND BIGGAR

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 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 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
BR112015000551 A2	20180306		B06F	OBJECTIONS, DOCUMENTS AND/OR TRANSLATIONS NEEDED AFTER AN EXAMINATION REQUEST ACCORDING ART. 34 INDUSTRIAL PROPERTY LAW	
BR112015000551 A2	20180313		B06F	OBJECTIONS, DOCUMENTS AND/OR TRANSLATIONS NEEDED AFTER AN EXAMINATION REQUEST ACCORDING	

				ART. 34 INDUSTRIAL PROPERTY LAW	
BR112015000551 A2	20180320		B06I	TECHNICAL AND FORMAL REQUIREMENTS: PUBLICATION CANCELLED	
BR112015000551 A2	20180320		B06I	TECHNICAL AND FORMAL REQUIREMENTS: PUBLICATION CANCELLED	Text: ANULADA A PUBLICACAO CODIGO 6.6.1 NA RPI NO 2462 DE 13/03/2018 POR TER SIDO INDEVIDA.
BR112015000551 A2	20190122	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BR112015000551 A2	20190716	LSRV	B09B	DECISION: REFUSAL	
CA2917840 AA	20160108	LSPB	+	published / reissued	
CA2917840 AA	20180717	LSES	+EEER	EXAMINATION REQUEST	Effective date: 20180704
CN104735981 A	20150624	LSPB	+	published / reissued	
CN104735981 A	20150624	LSPB	+C06	PUBLICATION	
CN104735981 A	20150812		EXSB	DECISION MADE BY SIPO TO INITIATE SUBSTANTIVE EXAMINATION	
CN104735981 A	20170329	LSGT	+GR01	PATENT GRANT	
CN104735981 B	20170329	LSGT	+	granted / extensions (spc, cpc, pte)	
CN104735981 B	20330708	PEXP		Calculated Patent Term Expiry	
CN106719603 A	20170531	LSPB	+	published / reissued	
CN106719603 A	20170531	LSPB	PB01	PUBLICATION	
CN106719603 A	20170623		SE01	ENTRY INTO FORCE OF REQUEST FOR SUBSTANTIVE EXAMINATION	
CN106719603 A	20180420		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1237594 Ref legal event code: DE Country of Ref document: HK
EP2871946 A2	20150520	LSPB	+	published / reissued	
EP2871946 A2	20150520	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20150112
EP2871946 A2	20150520		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AL AT 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 SM TR
EP2871946 A2	20150520		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP2871946 A2	20151014		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP2871946 A2	20180418	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20180316
HK1237594 A1	20180420	LSPB	+	published / reissued	
JP2015527996 T2	20150924	LSPB	+	published / reissued	
JP2015527996 T2	20160706	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20160706 Text: JAPANESE INTERMEDIATE CODE: A621

JP2015527996 T2	20170119		A977	REPORT ON RETRIEVAL	Effective date: 20170119 Text: JAPANESE INTERMEDIATE CODE: A971007
JP2015527996 T2	20170131	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20170131 Text: JAPANESE INTERMEDIATE CODE: A131
JP2015527996 T2	20170428		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Effective date: 20170428 Text: JAPANESE INTERMEDIATE CODE: A601
JP2015527996 T2	20171122	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2015527996 T2	20171128	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	Effective date: 20171128 Text: JAPANESE INTERMEDIATE CODE: A01
JP2015527996 T2	20180111	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	Effective date: 20171226 Text: JAPANESE INTERMEDIATE CODE: A61
JP6270836 B2	20171130	LSGT	+A01	特許査定書	
JP6270836 B2	20180109	LSFE	R100	特許料納付書	
JP6270836 B2	20180112	LSGT	+R150	特許証	
JP6270836 B2	20180131	LSGT	+	granted / extensions (spc, cpc, pte)	
JP6270836 B2	20330708	PEXP		Calculated Patent Term Expiry	
US2014017659 AA	20140116	LSPB	+	published / reissued	
US2014017659 AA	20160518	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US9357766 BB	20121012	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:STEINMAN, CHRISTOPHER P.;ALLEN, ROBERT J.;PETTINATO, DAVID;AND OTHERS;SIGNING DATES FROM 20120628 TO 20120629;REEL/FRAME:029127/0272 Owner: LIFELINE SCIENTIFIC, INC., ILLINOIS PartyType: owner
US9357766 BB	20151006		RFE1	Docketed New Case - Ready for Examination	
US9357766 BB	20160518	LSGT	PAT1	Patented Case	
US9357766 BB	20160607	LSGT	+	granted / extensions (spc, cpc, pte)	
US9357766 BB	20191204	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 4
US9357766 BB	20330717	PEXP		Calculated Patent Term Expiry (PTA 372 days)	
WO14011557 A2	20140116	LSPB	+	published / reissued	
WO14011557 A2	20140312		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A2 Ref document number: 13740123 Country of Ref document: EP
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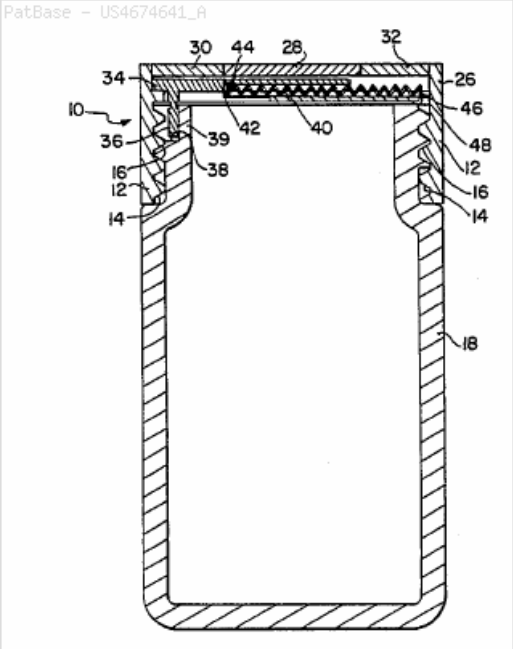
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WO14011557 A3	20150112	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2013740123 Country of Ref document: EP
WO14011557 A3	20150331		REG	REFERENCE TO NATIONAL CODE	Ref country code: BR Ref document number: 112015000551 Ref legal event code: B01A Country of Ref document: BR
WO14011557 A3	20160108	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2917840 Country of Ref document: CA
WO14011557 A3	20170627	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Effective date: 20150109 Kind code of Ref document: A2 Ref document number: 112015000551 Country of Ref document: BR

22) Family number: 5307947 (US4674641 A)

Title: **Tamper-evident** **closure** cap

Abstract: A **tamper-evident** **closure** lid for a **container** which includes a cap assembly having a movable indicator slide or rotatable indicator arm which in one position indicates the **container** is "sealed" and in another position indicates the **container** has been "**opened**". Resilient means are provided for moving the indicator member to the "**opened**" position when the **container** is **opened**. Further, **locking** means are provided for retaining the indicator member in the "**opened**" position once the **container** has been **opened**.

Classifications:
International (IPC 8-9): B65D55/02
International (IPC 1-7): B65D55/02
CPC: B65D55/026
US: 215/230



Family:

Publication number	Publication date	Application number	Application date
US4674641 A	19870623	US19860879932	19860630

Priority:
US19860879932 19860630

Probable Assignee: RUSINYAK GREG
Assignee(s): (std): RUSINYAK GREG
Inventor(s): (std): RUSINYAK GREG

Legal status (INPADOC)

View legal status timeline

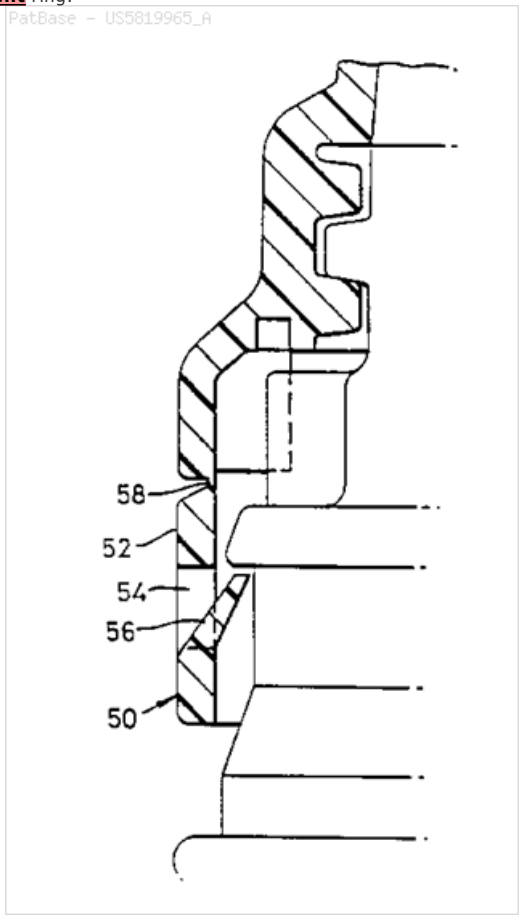
Patent	Date recorded	Event group	Code	Event	Details
US4674641 A	19870623	LSGT	+	granted / extensions (spc, cpc, pte)	
US4674641 A	19910123		REMI	MAINTENANCE FEE REMINDER MAILED	
US4674641 A	19910623	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4674641 A	19910623	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4674641 A	19910623	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US4674641 A	19910903	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 19910623

23) Family number: 20286940 (US5819965 A)

Title: **TAMPER EVIDENT** RING FOR A **CONTAINER** **CLOSURE**

Abstract: A **container** **closure** assembly including a **container** neck having a first screw thread, a radially projecting bead located below the first screw thread, and one or more ratchet projections located below the radially projecting bead. The **container** **closure** further includes a **closure** having a skirt portion with a second screw thread complementary to the first screw thread for **securing** the **closure** on the **container** neck. A **tamper evident** ring is joined to the skirt portion by severable connections and includes a generally annular collar for the neck, an **opening** or recess formed in the collar, wherein a portion of an edge of the **opening** or recess is attached to a tab. The tab is inclined radially inwardly and obliquely relative to a central axis of the ring and flexes relative to the collar in a radially outward direction. The ratchet projections allow rotation of the **tamper evident** ring in a screwing direction on the neck, but block rotation of the **tamper evident** ring in an unscrewing direction by abutment with the tab, whereby, when the **closure** is initially screwed onto the **container** neck, the tab flexes outwardly to allow the **tamper evident** ring to pass over the bead, and then rotates past the ratchet projections as the **tamper evident** ring is rotated in the screwing down direction. When the **closure** is unscrewed from the **container** neck for the first time, the tab abuts against an underside of the bead and also against the ratchet projections to exert axial and circumferential breaking forces on the **tamper evident** ring.

Classifications:
International (IPC 8-9): B65D41/34
International (IPC 1-7): B65D41/34 B65D55/06
CPC: B65D41/3409 B65D41/3428
US: 215/252



Family:

Publication number	Publication date	Application number	Application date
AU199454309 A1	19940608	AU19940054309	19931115
AU683857 B2	19971127	AU19940054309	19931115
CA2148370 AA	19950501	CA19932148370	19931115
CA2148370 C	20050510	CA19932148370	19931115
DE69309951 D1	19970522	DE19936009951T	19931115
DE69309951 T2	19970731	DE19936009951T	19931115
EP0667827 A1	19950823	EP19930924764	19931115
EP0667827 B1	19970416	EP19930924764	19931115
ES2103502 T3	19970916	ES19930924764T	19931115
GB9223779 A0	19930106	GB19920023779	19921113
GB9226320 A0	19930210	GB19920026320	19921217
JP3552720 B2	20040811	JP19940511869T	19931115
JP8503189 T2	19960409	JP19940511869T	19931115
RU2105706 C1	19980227	RU19950113173	19950512
RU95113173 A	19970320	RU19950113173	19931115
RU95113173 A1	19970320	RU19950113173	19950512
US5819965 A	19981013	US19970915541	19970813
WO9411267 A2	19940526	WO1993GB02341	19931115
WO9411267 A3	19940929	WO1993GB02341	19931115

Priority:

GB19920023779 19921113 GB19920026320 19921217 WO1993GB02341 19931115
US19950436338 19950731 US19970915541 19970813

Probable Assignee: BEESON AND SONS LTD

Assignee(s): (std): BEESON AND SONS LTD ; BISON EHND SANZ LIMITED ; BISON EHND SANZ LTD ; KING ROGER MILNER ; KING WITNEY MILNER

Assignee(s):	BEESON AND SONS LIMITED ; BEESON AND SONS LTD RICKMANSWORTH HERTFORDSHIRE GB
Inventor(s): (std):	KING ROGER MILNER ; KING WITNEY MILNER ; RODZHER MIL NER KING ; UITNI MIL NER KING
Inventor(s):	KING ROGER MILNER LATIMER BUCKS HP5 1UL GB ; KING WITNEY MILNER LATIMER BUCKS HP5 1UL GB ; RODZHER MIL'NER KING[GB] ; ROGER MILNER KING ; UITNI MIL'NER KING[GB] ; WITNEY MILNER KING
Agent(s):	FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; GOWLING LAFLEUR HENDERSON LLP
Designated states:	AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US UZ VN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199454309 A1	19940608	LSPB	+	published / reissued	
AU683857 B2	19971127	LSGT	+	granted / extensions (spc, cpc, pte)	
AU683857 B2	20131115	PEXP		Calculated Patent Term Expiry	
CA2148370 AA	19950501	LSPB	+	published / reissued	
CA2148370 AA	20001107	LSES	+EEER	EXAMINATION REQUEST	
CA2148370 C	20050510	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2148370 C	20121115	LSLE	-MKLA	LAPSED	
CA2148370 C	20121227	LSLE	-MKLA	LAPSED	Effective date: 20121115
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DE69309951 T2	19980514	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69309951 T2	20080626		8328	CHANGE IN THE PERSON/NAME/ADDRESS OF THE AGENT	Representative: WITTE, WELLER & PARTNER, 70178 STUTTGART PartyType: representative
DE69309951 T2	20131115	PEXP		Calculated Patent Term Expiry	
EP0667827 A1	19950823	LSPB	+	published / reissued	
EP0667827 A1	19950823	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19950519
EP0667827 A1	19950823		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: CH DE ES FR GB IT LI NL PT
EP0667827 A1	19951025	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 19950911
EP0667827 B1	19970416	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0667827 B1	19970416		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: CH DE ES FR GB IT LI NL PT
EP0667827 B1	19970416	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19970416 Country of Ref document: CH
EP0667827 B1	19970416	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19970416 Country of Ref document: LI
EP0667827 B1	19970430	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: EP Ref country code: CH
EP0667827 B1	19970522		REF	CORRESPONDS TO:	Ref document number: 69309951

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EP0667827 B1	19970716	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19970716 Country of Ref document: PT
EP0667827 B1	19970916	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG2A Ref document number: 2103502 Ref country code: ES Kind code of Ref document: T3 Country of Ref document: ES
EP0667827 B1	19971031	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: PL Ref country code: CH
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EP0667827 B1	20120725	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Ref country code: EP Effective date: 20111115
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EP0667827 B1	20120817	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: ST Effective date: 20120731 Ref country code: FR
EP0667827 B1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20111115 Country of Ref document: IT

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EP0667827 B1	20130603	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FD2A Ref country code: ES Effective date: 20130603
EP0667827 B1	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120601 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DE
EP0667827 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111116 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: ES
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ES2103502 T3	19970916	LSGT	+FG2A	DEFINITIVE PROTECTION	Ref document number: 667827 Country of Ref document: ES
ES2103502 T3	20131115	PEXP		Calculated Patent Term Expiry	
JP3552720 B2	20040811	LSGT	+	granted / extensions (spc, cpc, pte)	
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JP8503189 T2	20040304	LSRE	A521	WRITTEN AMENDMENT	Text: JAPANESE INTERMEDIATE CODE: A523 Effective date: 20040216
JP8503189 T2	20040319	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
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RU2105706 C1	20150512	PEXP		Calculated Patent Term Expiry	
RU95113173 A	19970320	LSPB	+	published / reissued	
RU95113173 A1					
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US5819965 A	19980908	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US5819965 A	19981013	LSGT	+	granted / extensions (spc, cpc, pte)	
US5819965 A	20020321	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5819965 A	20041228	LSRE	CC	CERTIFICATE OF CORRECTION	
US5819965 A	20060317	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5819965 A	20100408	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US5819965 A	20170813	PEXP		Calculated Patent Term Expiry	
WO9411267 A2	19940526	LSPB	+	published / reissued	
WO9411267 A2	19940526		+AK	DESIGNATED STATES	Kind code of Ref document: A2 Country of Ref document: AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US UZ VN
WO9411267 A2	19940526		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A2 Country of Ref document: AT BE BF BJ CF CG CH CI CM DE DK ES FR GA GB GN GR IE IT LU MC ML MR NE NL PT SE SN TD TG
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WO9411267 A2	19940901		DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO9411267 A3	19940929		+AK	DESIGNATED STATES	Kind code of Ref document: A3 Country of Ref document: AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US UZ VN
WO9411267 A3	19940929		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A3 Country of Ref document: AT BE BF BJ CF CG CH CI CM DE DK ES FR GA GB GN GR IE IT LU MC ML MR NE NL PT SE SN TD TG
WO9411267 A3	19950501	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2148370 Country of Ref document: CA
WO9411267 A3	19950517	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1993924764 Country of Ref document: EP
WO9411267 A3	19950731	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 19950731 Kind code of Ref document: A Ref document number: 1995 436338 Country of Ref document: US
WO9411267 A3	19950823	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1993924764 Country of Ref document: EP
WO9411267 A3	19950831	LSWD	REG	REFERENCE TO NATIONAL CODE	Ref legal event code: 8642 Ref country code: DE

WO9411267 A3	19970416	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 1993924764 Country of Ref document: EP
WO9411267 A3	19970813	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 1997 915541 Date of Ref document: 19970813 Kind code of Ref document: A Country of Ref document: US
WO9411267 A3	20000101	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2148370 Country of Ref document: CA

24) Family number: 63929994 (US2019062009 AA)

Title: **CONTAINER**

Abstract: A **container** has an upper edge, a lateral wall extending around the circumference of the **container**, and an **opening** closed by a lid. A latching rim proximate the upper edge latches with a corresponding latching rim on the lid. The latching rims of the **container** and the lid, respectively, extend at least partially around a circumference of the same. The **container** lateral wall includes a peripheral skirt having a sub-region extending radially outwardly from the lateral wall. The lid includes a lower lid rim on the outside of the **container** and at least one extension extending outside the lateral wall of the **container**. The extension extends below the lower rim of the lid and at least partially penetrates the skirt of the **container**. The extension and the **container** include corresponding fixing **devices** releasable independently of the latching **devices** formed by the latching rims of the **container** and the lid.

Classifications:
International (IPC 8-9): B65D41/34 B65D43/00 B65D43/02 B65D43/16 B65D50/00 B65D50/04 B65D50/06
CPC: B65D2215/02 B65D2215/04 B65D2215/08 B65D2401/10 B65D2543/00092 B65D2543/00194 B65D2543/00296 B65D2543/00379 B65D2543/00407 B65D2543/00555 B65D2543/00629 B65D2543/00648 B65D2543/00685 B65D2543/00694 B65D2543/0074 B65D2543/00759 B65D2543/00796 B65D2543/00805 B65D2543/00842 B65D43/0208 B65D43/0212 B65D43/0249 B65D50/046 B65D50/06
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
CA2992814 AA	20180117	CA20162992814	20160627
CA2992814 C	20190924	CA20162992814	20160627
DE202015104086 U1	20161110	DE201520104086U	20150805
DE502016009766 D1	20200520	DE201650009766T	20160627
EP3313746 A1	20180502	EP20160732605	20160627
EP3313746 B1	20200429	EP20160732605	20160627
SI3313746 T1	20200831	SI20160030832T	20160627
TR202010763 T4	20200821	TR20200010763T	20160627
US2019062009 AA	20190228	US20160740420	20160627
WO17001329 A1	20170105	WO2016EP64834	20160627

Priority:

DE201520103417U 20150629 DE201520104086U 20150805 WO2016EP64834 20160627 EP20160732605 20160627

Probable Assignee: JOKEY PLASTIK WIPPERFURTH GMBH

Assignee(s): (std): JOKEY PLASTIK WIPPERFUERTH ; JOKEY PLASTIK WIPPERFURTH GMBH ; JOKEY PLASTIK WIPPERFURTH GMBH ; JOKEY SE

Assignee(s): GEORGIADIS ROBERT GUIDO ; LOEPPRICH MIKE ; LOPPRICH MIKE

Inventor(s): (std): GEORGIADIS ROBERT GUIDO ; LOEPPRICH MIKE ; LOPPRICH MIKE

Inventor(s): MIKE LOEPPRICH ; ROBERT GUIDO GEORGIADIS

Agent(s): ELISAVET YAKOVIDIS CINLEMEZ; HICKS INTELLECTUAL PROPERTY LAW; LIPPERT STACHOW AND PARTNER; LIPPERT STACHOW PATENTANWAELTE RECHTSANWAELTE

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CA2992814 AA	20180117	LSPB	+	published / reissued	
CA2992814 AA	20180208	LSES	+EEER	EXAMINATION REQUEST	Effective date: 20180117
CA2992814 C	20190924	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2992814 C	20360627	PEXP		Calculated Patent Term Expiry	
DE202015104086 U1	20161110	LSGT	+	granted / extensions (spc, cpc, pte)	

DE202015104086 U1	20161110	LSGT	R207	UTILITY MODEL SPECIFICATION	
DE202015104086 U1	20181024	LSGT	+R150	UTILITY MODEL MAINTAINED AFTER PAYMENT OF FIRST MAINTENANCE FEE AFTER THREE YEARS	
DE202015104086 U1	20250805	PEXP		Calculated Patent Term Expiry	
EP3313746 A1	20180502	LSPB	+	published / reissued	
EP3313746 A1	20180502	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20171219
EP3313746 A1	20180502		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3313746 A1	20180502		+AV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT	Country of Ref document: MA MD
EP3313746 A1	20180502		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3313746 A1	20181003		DAV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT (DELETED)	
EP3313746 A1	20181003		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3313746 A1	20190515	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20190416
EP3313746 A1	20191016		INTC	INTENTION TO GRANT ANNOUNCED (DELETED)	
EP3313746 A1	20191106	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20191010
EP3313746 A1	20200122	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: JOKEY SE PartyType: owner
EP3313746 B1	20200429	LSGT	+	granted / extensions (spc, cpc, pte)	
EP3313746 B1	20200429		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AL AT 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 SM TR
EP3313746 B1	20200429	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D Text: NOT ENGLISH
EP3313746 B1	20200430	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP3313746 B1	20200515	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20200515 Kind code of Ref document: T Ref country code: AT Ref document number: 1262979 Ref legal event code: REF Country of Ref document: AT
EP3313746 B1	20200520	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 502016009766 Ref legal event code: R096 Country of Ref document: DE
EP3313746 B1	20200527	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D Text: LANGUAGE OF EP DOCUMENT: GERMAN
EP3313746 B1	20200715		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: CH Ref legal event code: NV Representative: KATZAROV SA, CH
EP3313746 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200623 Year of fee payment: 5 Country of Ref document: FR
EP3313746 B1	20200731		REG	REFERENCE TO A NATIONAL CODE	Ref country code: NL Ref legal event code: FP

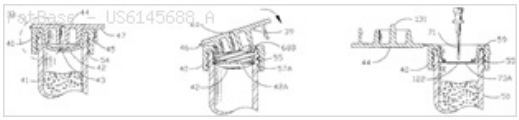
EP3313746 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200622 Year of fee payment: 5 Country of Ref document: NL
EP3313746 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200622 Year of fee payment: 5 Country of Ref document: BE
EP3313746 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200625 Year of fee payment: 5 Country of Ref document: HR
EP3313746 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200625 Year of fee payment: 5 Country of Ref document: GB
EP3313746 B1	20360627	PEXP		Calculated Patent Term Expiry	
SI3313746 T1	20200831	LSGT	+	granted / extensions (spc, cpc, pte)	
SI3313746 T1	20360627	PEXP		Calculated Patent Term Expiry	
TR202010763 T4	20200821	LSGT	+	granted / extensions (spc, cpc, pte)	
TR202010763 T4	20360627	PEXP		Calculated Patent Term Expiry	
US2019062009 AA	20180403	LSAS	AS	ASSIGNMENT	Effective date: 20180206 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:GEORGIADIS, ROBERT GUIDO;LOPPRICH, MIKE;REEL/FRAME:045822/0046 Owner: JOKEY PLASTIK WIPPERFURTH GMBH, GERMANY PartyType: owner
US2019062009 AA	20190123		RFE1	Docketed New Case - Ready for Examination	
US2019062009 AA	20190123		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: DOCKETED NEW CASE - READY FOR EXAMINATION
US2019062009 AA	20190228	LSPB	+	published / reissued	
US2019062009 AA	20190723	LSES	NFA1	Non Final Action Mailed	
US2019062009 AA	20190723		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NON FINAL ACTION MAILED
US2019062009 AA	20191130		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2019062009 AA	20191130		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER
US2019062009 AA	20200225		FRM1	Final Rejection Mailed	
US2019062009 AA	20200225		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: FINAL REJECTION MAILED
US2019062009 AA	20200630		RFE1	Docketed New Case - Ready for Examination	
US2019062009 AA	20200630		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING	Text: DOCKETED NEW CASE - READY FOR EXAMINATION

				PROCEDURE IN GENERAL	
WO17001329 A1	20170105	LSPB	+	published / reissued	
WO17001329 A1	20170222		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 16732605 Country of Ref document: EP
WO17001329 A1	20171230	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO17001329 A1	20180117	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2992814 Country of Ref document: CA
WO17001329 A1	20180129	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2016732605 Country of Ref document: EP

25) Family number: 30117085 (US6145688 A)

Title: CLOSURE DEVICE FOR CONTAINERS

Abstract: An injection molded assembly forming a sealing device for a threaded or non-threaded container using a double cap concept with pressure responsive convex sealing; also disclosed is a wiping mechanism, a one piece construction, a tamper resistant construction, a limited air exchange construction while allowing easy access to fluid contents, a sterile air venting and filter construction, a one piece tamper evident closure with a tethered container, and a frangible thether means molded with the formation of the sealing device.



Classifications:
International (IPC 8-9): A61J1/00 A61M5/32 B01L3/14 B65B1/04 B65D43/16 B65D47/08
International (IPC 1-7): A61J1/00 B65D41/32 B65D51/18 B65D55/16
CPC: B01L3/50825 B65D2251/105 B65D47/0842 Y10S215/03 B01L2200/026 B01L2200/0615 B01L2200/141 B01L2300/043
US: 141/23 141/286 141/329 141/59 215/247 215/248 215/253 215/278 215/306 215/308 215/DIG.003 215/DIG.3 215/DIG.3S 220/229 220/254.3 220/258.1 220/258.3 220/259 220/259.1 220/259.100P 220/259.2 220/259.200S 220/259.3 220/266 220/367.1 220/371 220/375 220/847 401/122 422/102 422/102S 422/400 422/400S 604/411 604/411P

Family:

Publication number	Publication date	Application number	Application date
US6145688 A	20001114	US19970895494	19970716
US6375028 BA	20020423	US20000645109	20000823
US2002130100 AA	20020919	US20020113237	20020328
US6622882 BB	20030923	US20020113237	20020328
US7387216 BA	20080617	US20030623933	20030721
US2008228163 AA	20080918	US20080154062	20080520
US7886779 BB	20110215	US20080154062	20080520

Priority:

US19960021934P 19960717 US19970895494 19970716 US20000645109 20000823 US20020113237 20020328 US20030623933 20030721 US20080154062 20080520

Probable Assignee: SMITH JAMES C
Assignee(s): (std): SMITH JAMES C
Inventor(s): (std): SMITH JAMES C
Inventor(s): JAMES C SMITH
Agent(s): JAMES C SMITH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2002130100 AA	20020919	LSPB	+	published / reissued	
US2008228163 AA	20080918	LSPB	+	published / reissued	
US6145688 A	20001027	LSGT	PAT1	Patented Case	
US6145688 A	20001027	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US6145688 A	20001114	LSGT	+	granted / extensions (spc, cpc, pte)	
US6145688 A	20010501	LSRE	CC	CERTIFICATE OF CORRECTION	
US6145688 A	20010911	LSRE	CC	CERTIFICATE OF CORRECTION	
US6145688 A	20040223	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6145688 A	20080301	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6145688 A	20120226	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6145688 A	20170716	PEXP		Calculated Patent Term Expiry	
US6375028 BA	20020404	LSGT	PAT1	Patented Case	
US6375028 BA	20020404	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US6375028 BA	20020423	LSGT	+	granted / extensions (spc, cpc, pte)	
US6375028 BA	20050706	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6375028 BA	20091018	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6375028 BA	20130910	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6375028 BA	20200823	PEXP		Calculated Patent	

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US6622882 BB	20030923	LSGT	+	granted / extensions (spc, cpc, pte)	
US6622882 BB	20061228	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6622882 BB	20110314	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6622882 BB	20150501		REMI	MAINTENANCE FEE REMINDER MAILED	
US6622882 BB	20150923	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6622882 BB	20151019	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6622882 BB	20151019	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6622882 BB	20151110	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20150923
US6622882 BB	20220328	PEXP		Calculated Patent Term Expiry	
US7387216 BA	20080528	LSGT	PAT1	Patented Case	
US7387216 BA	20080617	LSGT	+	granted / extensions (spc, cpc, pte)	
US7387216 BA	20111019	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7387216 BA	20160129		REMI	MAINTENANCE FEE REMINDER MAILED	
US7387216 BA	20160617	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7387216 BA	20160718	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7387216 BA	20160718	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7387216 BA	20160809	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20160617
US7387216 BA	20171029	PEXP		Calculated Patent Term Expiry (PTA 105 days)	
US7886779 BB	20110126	LSGT	PAT1	Patented Case	
US7886779 BB	20110215	LSGT	+	granted / extensions (spc, cpc, pte)	
US7886779 BB	20140904	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7886779 BB	20140904		+SULP	SURCHARGE FOR LATE PAYMENT	
US7886779 BB	20180408	PEXP		Calculated Patent Term Expiry (PTA 266 days)	
US7886779 BB	20190325	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7886779 BB	20190325	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7886779 BB	20190325	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7886779 BB	20190416	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20190215

26) Family number: 70679755 (IN201741003853 A)

Title: **CLOSURE** ASSEMBLY WITH IMPROVED TAMPER RESISTANCE

Abstract: Disclosed herein is a **closure** assembly for a **container** with additional anchorage for enhancing tamper resistance. The **closure** assembly is provided with **tamper evidence** when the **closure** is attempted to be **opened**. Further, the **closure** assembly is provided with capability to be converted into non-refilling type and **open** pourer type.

Classifications:

International (IPC 8-9): B67D7/74

Family:

Publication number	Publication date	Application number	Application date
IN201741003853 A	20180803	IN201741003853	20170202

Priority:

IN201741003853 20170202

Probable Assignee: APOORV P KANAVI

Assignee(s): APOORV P KANAVI ; NAGARAJ C YCLIGAR ; PRIYADARSHI C KANAVI ; VINAYAK U SANKOLLI

Inventor(s): APOORV P KANAVI ; NAGARAJ C YCLIGAR ; PRIYADARSHI C KANAVI ; VINAYAK U SANKOLLI

Legal status (INPADOC)

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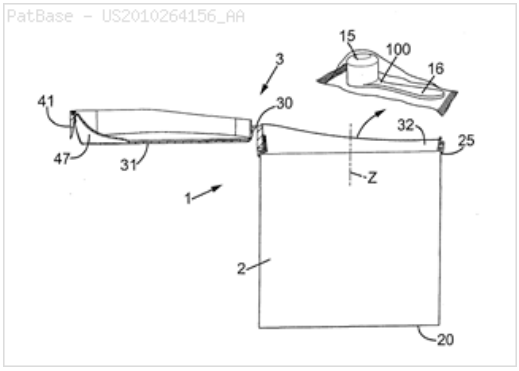
Patent	Date recorded	Event group	Code	Event	Details
IN201741003853 A	20180803	LSPB	+	published / reissued	

27) Family number: 43470216 (US2010264156 AA)

Title: FOOD PACKAGING WITH LID AND **CLOSURE** SYSTEM FOR PACKAGING

Abstract: Packaging (1) for a food product, comprising a **container** (2) with an **opening** delimited by a surround (32) and a **closure** system (3) comprising a lid (31) mounted articulated relative to the **container** (2) and able to close off the **opening**. The lid is **locked** in the closed position by a **locking** plate (41) connected to the lid and an engagement rim **secured** to the surround. The plate pivots about an axis between a **locking** position with its catching portion engaged with the rim and an unlocked position. The plate pivots into the unlocked position under manual actuation, away from the catching portion, of an actuating portion towards a central axis (Z). The top face of the lid has a depression (47) **opening** laterally and the actuating portion of the plate is advantageously situated level with the mouth of the depression so that it can pivot thereinto and adopt the unlocked position.

Classifications:
International (IPC 8-9): A47G19/06 B65D21/02 B65D25/10 B65D43/14 B65D43/16 B65D43/22 B65D51/00 B65D51/18 B65D51/24 B65D51/26 B65D51/28 B65D55/02 B65D85/72 G01M3/26 G08B17/00
International (IPC 1-7): B65D21/02 B65D43/16 B65D51/24 B65D55/02 B65D551/24 G01M3/26 G08B17/00
CPC: B65D2251/1058 B65D43/169 B65D51/246 B65D2543/00888 B65D2543/00518 B65D43/162 B65D43/22 B65D51/24 B65D51/247
US: 206/569 220/212 220/254.3 220/574.1 220/833 220/835



Family:

Publication number	Publication date	Application number	Application date
AR069807 AA	20100217	AR2008P105530	20081218
AR069808 AA	20100217	AR2008P105531	20081218
AR069809 AA	20100217	AR2008P105532	20081218
AT519685 E	20110815	AT20080864632T	20081218
CN101939229 A	20110105	CN200880126707	20081218
CN102730302 A	20121017	CN201210162592	20081218
CN102730302 B	20150520	CN201210162592	20081218
CN102700818 A	20121003	CN201210162594	20081218
CN102700818 B	20160120	CN201210162594	20081218
DE602008008840 D1	20111006	DE200860008840T	20081218
DE602008019089 D1	20121115	DE200860019089T	20081218
DE602008021648 D1	20130307	DE200860021648T	20081218
DK2374727 T3	20130121	DK20110173317T	20081218
EP2227421 A2	20100915	EP20080864632	20081218
EP2227421 B1	20110810	EP20080864632	20081218
EP2374727 A1	20111012	EP20110173317	20081218
EP2374727 B1	20120926	EP20110173317	20081218
EP2374727 B9	20130403	EP20110173317	20081218
EP2388206 A1	20111123	EP20110173466	20081218
EP2388206 B1	20130109	EP20110173466	20081218
ES2396033 T3	20130218	ES20110173317T	20081218
ES2406857 T3	20130610	ES20110173466T	20081218
FR2925466 A1	20090626	FR20070008877	20071219
FR2925466 B1	20110916	FR20070008877	20071219
FR2925467 A1	20090626	FR20070008878	20071219
FR2925467 B1	20110916	FR20070008878	20071219
FR2925468 A1	20090626	FR20070008879	20071219
FR2925468 B1	20110916	FR20070008879	20071219
PL2374727 T3	20130329	PL20110173317T	20081218
RU2010129523 A	20120127	RU20100129523	20081218
RU2013114436 A	20141010	RU20130114436	20130401
RU2633258 C2	20171011	RU20130114436	20130401
RU2013114438 A	20141010	RU20130114438	20130401
TH100580 A	20100324	TH20081006455	20081217
TH104864 A	20101110	TH20081006456	20081217
TH100581 A	20100324	TH20081006457	20081217
TH66994 B	20181219	TH20081006457	20081217
US2010264156 AA	20101021	US20080808532	20081218
US2012261301 AA	20121018	US20120525713	20120618
US8899436 BB	20141202	US20120525713	20120618
US2012248132 AA	20121004	US20120525728	20120618
US8567629 BB	20131029	US20120525728	20120618
WO09081050 A2	20090702	WO2008FR52359	20081218
WO09081050 A3	20090827	WO2008FR52359	20081218

Priority:

FR20070008877 20071219
FR20070008878 20071219
FR20070008879 20071219
WO2008FR52359 20081218
CN200880126707 20081218
EP20080864632 20081218
EP20110173317 20081218
EP20110173466 20081218
US20100808532 20100616
US20120525728 20120618
US20120525713 20120618

Probable Assignee: GERVAIS DANONE COMP

Assignee(s): (std):	BOURDIN FREDERIC ; GERVAIS DANONE SA ; KOMPANI ZHERVE DANON ; LOVELL FRANCIS ; VANDAMME PATRICK
Assignee(s):	COMPAGNIE GERVAIS DANONE ; COMPAGNIE GERVAIS DANONE SOCIETE ANONYME ; GERVAIS DANONE COMP ; GERVAIS DANONE SOC ANONYME COMP
Inventor(s): (std):	BOURDIN FREDERIC ; BURDEN FREDERIK ; FRANCIS LOVELL ; FREDERIC BOURDIN ; LOVEL FRANSIS ; LOVELL FRANCIS ; PATRICK VANDAMME ; VANDAM PATRIK ; VANDAMME PATRICK
Agent(s):	CABINET PLASSERAUD; DE ELZABURU ALBERTO; FROST BROWN TODD LLC; MCDONNELL BOEHNEN HULBERT AND BERGHOFF LLP; OOO SOYUZPATENT; PLASSERAUD IP
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)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AR069807 AA	20100217	LSPB	+	published / reissued	
AR069807 AA	20111229	LSWD	-FB	SUSPENSION OF GRANTING PROCEDURE	
AR069808 AA	20100217	LSPB	+	published / reissued	
AR069808 AA	20140421	LSGT	+FG	GRANT, REGISTRATION	
AR069809 AA	20100217	LSPB	+	published / reissued	
AR069809 AA	20140609	LSGT	+FG	GRANT, REGISTRATION	
AT519685 E	20110815	LSGT	+	granted / extensions (spc, cpc, pte)	
AT519685 E	20120215	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT519685 E	20281218	PEXP		Calculated Patent Term Expiry	
CN101939229 A	20110105	LSPB	+	published / reissued	
CN101939229 A	20110105	LSPB	+C06	PUBLICATION	
CN101939229 A	20110302		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN101939229 A	20130116	LSDW	-C20	PATENT RIGHT OR UTILITY MODEL DEEMED TO BE ABANDONED OR IS ABANDONED	
CN102700818 A	20121003	LSPB	+	published / reissued	
CN102700818 A	20121003	LSPB	+C06	PUBLICATION	
CN102700818 A	20121128		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN102700818 B	20160120	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102700818 B	20160120	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN102700818 B	20281218	PEXP		Calculated Patent Term Expiry	
CN102730302 A	20121017	LSPB	+	published / reissued	
CN102730302 A	20121017	LSPB	+C06	PUBLICATION	
CN102730302 A	20121017	LSPB	PB01	公开	Text: 公开 (Disclosure)
CN102730302 A	20121212		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN102730302 A	20121212		SE01	实质审查请求的生效	Text: 实质审查的生效 (Force of substantive review)
CN102730302 B	20150520	LSGT	+	granted / extensions (spc, cpc, pte)	

CN102730302 B	20150520	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN102730302 B	20150520	LSGT	+GR01	授权	Text: 授权 (Authorization)
CN102730302 B	20181207	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN102730302 B	20181207	LSLE	-CF01	未缴年费专利权终止	Effective date: 20171218 Text: 专利权的终止 (Termination of Patent Right)
CN102730302 B	20281218	PEXP		Calculated Patent Term Expiry	
DE602008019089 D1	20120416		R079	AMENDMENT OF IPC MAIN CLASS	ClassificationScheme: IPC ClassificationSymbol: B65D0051240000 Text: PREVIOUS MAIN CLASS: B65D0051240000
DE602008019089 D1	20180703	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
DE602008021648 D1	20120615		R079	AMENDMENT OF IPC MAIN CLASS	ClassificationScheme: IPC ClassificationSymbol: B65D0043160000 Text: PREVIOUS MAIN CLASS: B65D0043160000
DK2374727 T3	20130121	LSGT	+	granted / extensions (spc, cpc, pte)	
DK2374727 T3	20281218	PEXP		Calculated Patent Term Expiry	
EP2227421 A2	20100915	LSPB	+	published / reissued	
EP2227421 A2	20100915	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20100615
EP2227421 A2	20100915		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: 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
EP2227421 A2	20100915		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL BA MK RS
EP2227421 A2	20101110		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: VANDAMME, PATRICK PartyType: inventor
EP2227421 A2	20101110		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: BOURDIN, FREDERIC PartyType: inventor
EP2227421 A2	20101110		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: LOVELL, FRANCIS PartyType: inventor
EP2227421 A2	20101201		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: VANDAMME, PATRICK PartyType: inventor
EP2227421 A2	20101201		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: BOURDIN, FREDERIC PartyType: inventor
EP2227421 A2	20101201		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: LOVELL, FRANCIS PartyType: inventor
EP2227421 A2	20110330		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP2227421 A2	20110810		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: 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
EP2227421 A2	20110810	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D

					Text: NOT ENGLISH
EP2227421 A2	20110815	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP2227421 A2	20110817		DAC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION (DELETED)	
EP2227421 A2	20110914	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D Text: LANGUAGE OF EP DOCUMENT: FRENCH
EP2227421 A2	20111006	LSPB	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20111006 Ref country code: DE Ref document number: 602008008840 Ref legal event code: R096 Country of Ref document: DE
EP2227421 A2	20111207	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110810 Ref country code: NL Ref legal event code: VDEP
EP2227421 A2	20120125	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	Effective date: 20110810 Ref country code: EP
EP2227421 A2	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111210 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP2227421 A2	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP2227421 A2	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2227421 A2	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP2227421 A2	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR
EP2227421 A2	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111212 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2227421 A2	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP2227421 A2	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111110 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP2227421 A2	20120215	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110810 Kind code of Ref document: T Ref country code: AT Ref document number: 519685 Ref legal event code: MK05 Country of Ref document: AT
EP2227421 A2	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE

				FROM NATIONAL OFFICE TO EPO]	PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP2227421 A2	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PL
EP2227421 A2	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP2227421 A2	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP2227421 A2	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP2227421 A2	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111111 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP2227421 A2	20120314	LSWD	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FD4D
EP2227421 A2	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2227421 A2	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IE
EP2227421 A2	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2227421 A2	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2227421 A2	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IT
EP2227421 A2	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP2227421 A2	20120629	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP2227421 A2	20120630	LSLE	-BERE	BE: LAPSED	Effective date: 20111231 Owner: CIE GERVAIS DANONE PartyType: owner Ref country code: EP
EP2227421 A2	20120718	LSGT	+26N	NO OPPOSITION	Effective date: 20120511

				FILED	
EP2227421 A2	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP2227421 A2	20120906	LSRE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20120511 Ref country code: DE Ref document number: 602008008840 Ref legal event code: R097 Country of Ref document: DE
EP2227421 A2	20120907	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20120831 Ref country code: FR Ref legal event code: ST
EP2227421 A2	20121011	LSDW	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20120703 Ref country code: DE Ref document number: 602008008840 Ref legal event code: R119 Country of Ref document: DE
EP2227421 A2	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP2227421 A2	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120703 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DE
EP2227421 A2	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MT
EP2227421 A2	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111121 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: ES
EP2227421 A2	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120102 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FR
EP2227421 A2	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111218 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP2227421 A2	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20111110 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP2227421 A2	20130731	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP2227421 A2	20130828	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20121218 Ref country code: EP
EP2227421 A2	20130930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR
EP2227421 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH

EP2227421 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110810 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HU
EP2227421 A2	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP2227421 A2	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121218 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GB
EP2227421 B1	20110810	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2227421 B1	20281218	PEXP		Calculated Patent Term Expiry	
EP2374727 A1	20111012	LSPB	+	published / reissued	
EP2374727 A1	20111012		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 2227421 Country of Ref document: EP
EP2374727 A1	20111012		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: 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
EP2374727 A1	20120502	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20120326
EP2374727 A1	20120523		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 51/24 20060101AFI20120416BHEP
EP2374727 A1	20120523		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 43/22 20060101ALI20120416BHEP
EP2374727 A1	20120530		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: VANDAMME, PATRICK PartyType: inventor
EP2374727 A1	20120530		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: BOURDIN, FREDERIC PartyType: inventor
EP2374727 A1	20120530		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: LOVELL, FRANCIS PartyType: inventor
EP2374727 A1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR
EP2374727 A1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2374727 A1	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130128 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2374727 A1	20140228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20131216 Year of fee payment: 6 Country of Ref document: TR

EP2374727 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151218 Year of fee payment: 8 Country of Ref document: GB
EP2374727 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151119 Year of fee payment: 8 Country of Ref document: DK
EP2374727 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151215 Year of fee payment: 8 Country of Ref document: IT
EP2374727 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151207 Year of fee payment: 8 Country of Ref document: CH
EP2374727 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151209 Year of fee payment: 8 Country of Ref document: DE
EP2374727 A1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151116 Year of fee payment: 8 Country of Ref document: NL
EP2374727 A1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151126 Year of fee payment: 8 Country of Ref document: PL
EP2374727 A1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151218 Year of fee payment: 8 Country of Ref document: ES
EP2374727 A1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151230 Year of fee payment: 8 Country of Ref document: FR
EP2374727 B1	20120926	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2374727 B1	20120926		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 2227421 Country of Ref document: EP
EP2374727 B1	20120926		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: 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
EP2374727 B1	20120926	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D Text: NOT ENGLISH
EP2374727 B1	20120928	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP2374727 B1	20121015	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20121015 Kind code of Ref document: T Ref country code: AT Ref document number: 576923 Ref legal event code: REF Country of Ref document: AT
EP2374727 B1	20121024	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D Text: LANGUAGE OF EP DOCUMENT: FRENCH
EP2374727 B1	20121115	LSPB	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20121115 Ref country code: DE Ref document number: 602008019089 Ref legal event code: R096 Country of Ref document: DE
EP2374727 B1	20130121		REG	REFERENCE TO A NATIONAL CODE	Ref country code: DK Ref legal event code: T3
EP2374727 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE

				STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP2374727 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121226 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP2374727 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2374727 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR
EP2374727 B1	20130206	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: NL Ref legal event code: T3
EP2374727 B1	20130215	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20120926 Kind code of Ref document: T Ref country code: AT Ref document number: 576923 Ref legal event code: MK05 Country of Ref document: AT
EP2374727 B1	20130218	LSGT	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130218 Kind code of Ref document: T3 Ref country code: ES Ref document number: 2396033 Ref legal event code: FG2A Country of Ref document: ES
EP2374727 B1	20130225	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20120926 Ref country code: LT Ref legal event code: MG4D
EP2374727 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP2374727 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP2374727 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP2374727 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121227 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP2374727 B1	20130329		REG	REFERENCE TO A NATIONAL CODE	Ref country code: PL Ref legal event code: T3
EP2374727 B1	20281218	PEXP		Calculated Patent Term Expiry	
EP2374727 B9	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130126 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP2374727 B9	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2374727 B9	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION

				INFORMATION FROM NATIONAL OFFICE TO EPO]	OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP2374727 B9	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2374727 B9	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130128 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2374727 B9	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2374727 B9	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP2374727 B9	20130630	LSLE	-BERE	BE: LAPSED	Effective date: 20121231 Owner: CIE GERVAIS DANONE PartyType: owner Ref country code: EP
EP2374727 B9	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121226 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP2374727 B9	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP2374727 B9	20130904	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20130627
EP2374727 B9	20130925	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP2374727 B9	20130930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP2374727 B9	20131024	LSRE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130627 Ref country code: DE Ref document number: 602008019089 Ref legal event code: R097 Country of Ref document: DE
EP2374727 B9	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121218 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP2374727 B9	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MT
EP2374727 B9	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP2374727 B9	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121218 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU

EP2374727 B9	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121218 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: TR
EP2374727 B9	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081218 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HU
EP2374727 B9	20151230	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 8 Country of Ref document: FR
EP2374727 B9	20161220	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 9 Country of Ref document: FR
EP2374727 B9	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161222 Year of fee payment: 9 Country of Ref document: CH
EP2374727 B9	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161129 Year of fee payment: 9 Country of Ref document: DK
EP2374727 B9	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161221 Year of fee payment: 9 Country of Ref document: GB
EP2374727 B9	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161117 Year of fee payment: 9 Country of Ref document: NL
EP2374727 B9	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161215 Year of fee payment: 9 Country of Ref document: IT
EP2374727 B9	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161229 Year of fee payment: 9 Country of Ref document: ES
EP2374727 B9	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161220 Year of fee payment: 9 Country of Ref document: FR
EP2374727 B9	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161124 Year of fee payment: 9 Country of Ref document: PL
EP2374727 B9	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161221 Year of fee payment: 9 Country of Ref document: DE
EP2374727 B9	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161209 Year of fee payment: 9 Country of Ref document: TR
EP2374727 B9	20180703	LSDW	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602008019089 Ref legal event code: R119 Country of Ref document: DE
EP2374727 B9	20180730	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20171231 Ref country code: DK Ref legal event code: EBP
EP2374727 B9	20180731	LSLE	REG	REFERENCE TO A	Ref country code: CH

				NATIONAL CODE	Ref legal event code: PL
EP2374727 B9	20180808		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20180101 Ref country code: NL Ref legal event code: MM
EP2374727 B9	20180829	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20171218 Ref country code: EP
EP2374727 B9	20180928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180101 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: NL
EP2374727 B9	20180928	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20180831 Ref country code: FR Ref legal event code: ST
EP2374727 B9	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20171218 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IT
EP2374727 B9	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180703 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DE
EP2374727 B9	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180102 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FR
EP2374727 B9	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20171231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP2374727 B9	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20171218 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GB
EP2374727 B9	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20171231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP2374727 B9	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20171231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DK
EP2374727 B9	20190430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20171218 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PL
EP2374727 B9	20190703	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20190703 Ref country code: ES Ref legal event code: FD2A
EP2374727 B9	20190731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20171219 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: ES
EP2388206 A1	20111123	LSPB	+	published / reissued	
EP2388206 A1	20111123		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 2227421 Country of Ref document: EP

EP2388206 A1	20111123		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: 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
EP2388206 A1	20120627	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20120522
EP2388206 A1	20120725		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 43/22 20060101ALI20120615BHEP
EP2388206 A1	20120725		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 43/16 20060101AFI20120615BHEP
EP2388206 A1	20120725		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 51/24 20060101ALI20120615BHEP
EP2388206 A1	20120815		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: VANDAMME, PATRICK PartyType: inventor
EP2388206 A1	20120815		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: BOURDIN, FREDERIC PartyType: inventor
EP2388206 A1	20120815		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: LOVELL, FRANCIS PartyType: inventor
EP2388206 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP2388206 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2388206 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP2388206 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2388206 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2388206 A1	20140228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20131216 Year of fee payment: 6 Country of Ref document: TR
EP2388206 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151215 Year of fee payment: 8 Country of Ref document: IT
EP2388206 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151218 Year of fee payment: 8 Country of Ref document: GB
EP2388206 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151209 Year of fee payment: 8 Country of Ref document: DE

EP2388206 A1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151218 Year of fee payment: 8 Country of Ref document: ES
EP2388206 A1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151230 Year of fee payment: 8 Country of Ref document: FR
EP2388206 B1	20130109	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2388206 B1	20130109		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 2227421 Country of Ref document: EP
EP2388206 B1	20130109		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: 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
EP2388206 B1	20130109	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D Text: NOT ENGLISH
EP2388206 B1	20130115	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP2388206 B1	20130115	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130115 Kind code of Ref document: T Ref country code: AT Ref document number: 592603 Ref legal event code: REF Country of Ref document: AT
EP2388206 B1	20130213	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D Text: LANGUAGE OF EP DOCUMENT: FRENCH
EP2388206 B1	20130307	LSPB	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130307 Ref country code: DE Ref document number: 602008021648 Ref legal event code: R096 Country of Ref document: DE
EP2388206 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP2388206 B1	20130610	LSGT	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130610 Kind code of Ref document: T3 Ref country code: ES Ref document number: 2406857 Ref legal event code: FG2A Country of Ref document: ES
EP2388206 B1	20130612	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130109 Ref country code: NL Ref legal event code: VDEP
EP2388206 B1	20130615	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130109 Kind code of Ref document: T Ref country code: AT Ref document number: 592603 Ref legal event code: MK05 Country of Ref document: AT
EP2388206 B1	20130625	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: LT Ref legal event code: MG4D
EP2388206 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130409 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP2388206 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP2388206 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE

EP2388206 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP2388206 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130509 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP2388206 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130409 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP2388206 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130509 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2388206 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP2388206 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130410 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP2388206 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2388206 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PL
EP2388206 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP2388206 B1	20130930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR
EP2388206 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2388206 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP2388206 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP2388206 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION

				INFORMATION FROM NATIONAL OFFICE TO EPO]	OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2388206 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2388206 B1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130109 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
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EP2388206 B1	20140630	LSLE	-BERE	BE: LAPSED	Effective date: 20131231 Owner: CIE GERVAIS DANONE PartyType: owner Ref country code: EP
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EP2388206 B1	20161220	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 9 Country of Ref document: FR
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EP2388206 B1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161220 Year of fee payment: 9 Country of Ref document: FR
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ES2406857 T3	20130610	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2406857 T3	20281218	PEXP		Calculated Patent Term Expiry	
FR2925466 A1	20090626	LSPB	+	published / reissued	
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FR2925468 B1	20140926	LSLE	-ST	NOTIFICATION OF LAPSE	Effective date: 20140829
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RU2010129523 A	20120127	LSPB	+	published / reissued	
RU2010129523 A	20131210	LSWD	-FA94	ACKNOWLEDGEMENT OF APPLICATION WITHDRAWN (NON-PAYMENT OF FEES)	Effective date: 20131004
RU2013114436 A	20141010	LSPB	+	published / reissued	
RU2013114438 A	20141010	LSPB	+	published / reissued	
RU2013114438 A	20170920	LSWD	-FA92	ACKNOWLEDGEMENT OF APPLICATION WITHDRAWN (LACK OF SUPPLEMENTARY MATERIALS SUBMITTED)	Effective date: 20170918
RU2633258 C2	20171011	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2633258 C2	20330401	PEXP		Calculated Patent Term Expiry	
TH100580 A	20100324	LSPB	+	published / reissued	
TH100581 A	20100324	LSPB	+	published / reissued	
TH104864 A	20101110	LSPB	+	published / reissued	
TH66994 B	20181219	LSGT	+	granted / extensions (spc, cpc, pte)	
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US2010264156 AA	20100902	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:VANDAMME, PATRICK;BOURDIN, FREDERIC;LOVELL, FRANCIS;SIGNING DATES FROM 20100715 TO 20100716;REEL/FRAME:024931/0159 Owner: COMPAGNIE GERVAIS DANONE, FRANCE PartyType: owner

US2010264156 AA	20101021	LSPB	+	published / reissued	
US2010264156 AA	20121022	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010264156 AA	20121022		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US2012248132 AA	20121004	LSPB	+	published / reissued	
US2012248132 AA	20131009	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2012261301 AA	20121018	LSPB	+	published / reissued	
US8567629 BB	20120906	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:VANDAMME, PATRICK;BOURDIN, FREDERIC;LOVELL, FRANCIS;SIGNING DATES FROM 20100715 TO 20100716;REEL/FRAME:028909/0275 Owner: COMPAGNIE GERVAIS DANONE, FRANCE PartyType: owner
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US8899436 BB	20120906	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:VANDAMME, PATRICK;BOURDIN, FREDERIC;LOVELL, FRANCIS;SIGNING DATES FROM 20100715 TO 20100716;REEL/FRAME:028909/0275 Owner: COMPAGNIE GERVAIS DANONE, FRANCE PartyType: owner
US8899436 BB	20141112	LSGT	PAT1	Patented Case	
US8899436 BB	20141202	LSGT	+	granted / extensions (spc, cpc, pte)	
US8899436 BB	20180716	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US8899436 BB	20190107	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US8899436 BB	20190107	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
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US8899436 BB	20190129	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20181202
US8899436 BB	20281218	PEXP		Calculated Patent Term Expiry	
WO09081050 A2	20081218	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200880126707.X Country of Ref document: CN
WO09081050 A2	20090702	LSPB	+	published / reissued	
WO09081050 A2	20090826		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A2 Ref document number: 08864632 Country of Ref document: EP
WO09081050 A3	20100615	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2008864632 Country of Ref document: EP
WO09081050 A3	20100616	LSNP	+WWE	WIPO	Ref document number: 12808532

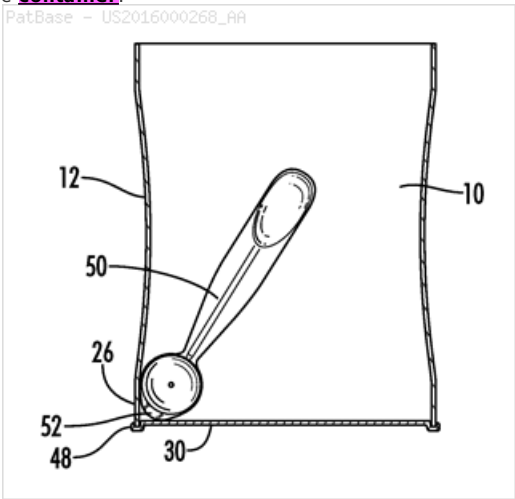
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WO09081050 A3	20100719	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2010129523 Country of Ref document: RU

28) Family number: 61317319 (US2016000268 AA)

Title: MEASURING **DEVICE** AND **CONTAINER**

Abstract: A measuring **device** for dispensing granulated powder. The measuring **device** includes a bucket, handle and a tapered tip. The bucket has a substantially circular top cross-sectional area and outside diameter, with a depth of from about 75 percent to about 250 percent of the outside diameter. The bucket includes a handle side oppositely facing a distal side. The handle is formed on the handle side of the bucket, and the tapered tip is formed on the distal side of the bucket. Some embodiments include varying volumes of the bucket, from about 5 cubic centimeters to about 30 cubic centimeters. The handle can include a surface indentation. The measuring **device** may be combined with an associated **container**, such that the measuring **device** is used to dispense granulated powder from the **container**.

Classifications:
International (IPC 8-9): A47J47/01 A47J47/04 A47J47/06 A47J47/10 B65D B65D21/00 B65D21/02 B65D43/02 B65D43/08 B65D43/16 B65D43/22 B65D45/18 B65D5/468 B65D5/66 B65D51/04 B65D51/24 B65D77/24 B65D8/00 B65D83/06
International (IPC 1-7): B65D43/16 B65D43/22 B65D51/24
CPC: A47J47/01 A47J47/04 B65D51/246 B65D77/245 B65D2203/12 B65D2251/205 B65D43/169 B65D43/22 A47J47/06 A47J47/10 B65D21/0217 B65D2231/00 B65D2251/1008 B65D43/08 B65D43/16 B65D5/66 B65D51/247
US: 1/1 206/508 220/212 220/324 220/752



Family:

Publication number	Publication date	Application number	Application date
AR100898 AA	20161109	AR2015P101945	20150617
AR103203 AA	20170426	AR2015P103290	20151013
AU2015284718 AA	20170105	AU20150284718	20150601
AU2015334095 AA	20160421	AU20150334095	20150909
AU2015334095 BB	20200924	AU20150334095	20150909
BR112017007016 A2	20171219	BR20171107016	20150909
CA2953124 AA	20161220	CA20152953124	20150601
CA2961881 AA	20170320	CA20152961881	20150909
CN106660683 A	20170510	CN201580035980	20150601
CN106794923 A	20170531	CN201580055874	20150909
CN106794923 A8	20170630	CN201580055874	20150909
CN106794923 B	20190920	CN201580055874	20150909
DE602015032758 D1	20190718	DE2015600327758T	20150909
EP3164341 A1	20170510	EP20150731432	20150601
EP3206962 A1	20170823	EP20150766714	20150909
EP3206962 B1	20190626	EP20150766714	20150909
ES2746563 T3	20200306	ES20150766714T	20150909
HK1236489 A1	20180329	HK20170110539	20171018
HK1238224 A1	20180427	HK20170112351	20171124
ID201712378 A	20171110	ID2016P0009117	20150601
ID201802764 A	20180316	ID2017P0002342	20150909
IN201617042343 A	20170324	IN201617042343	20161212
IN201717007776 A	20170707	IN201717007776	20170306
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MX2017003998 A1	20170707	MX20170003998	20150909
PH2016502495 A	20170322	PH20160502495	20161214
PH2017500670 A	20171009	PH20170500670	20170410
SG11201610425W A1	20170127	SG20161110425	20150601
SG11201701705W A1	20170427	SG20171101705	20150909
TH167905 A	20170921	TH20161007836	20150601
TH176599 A	20180607	TH20171002069	20150909
TW201615138 A	20160501	TW20150118606	20150609
TW201632429 A	20160916	TW20150130826	20150917
US2016000268 AA	20160107	US20140321022	20140701
US2016000270 AA	20160107	US20140515086	20141015
US9930996 BB	20180403	US20140515086	20141015
WO16003568 A1	20160107	WO2015US33553	20150601
WO16060755 A1	20160421	WO2015US49170	20150909

Priority:

US20140321022 20140701 US20140515086 20141015 WO2015US33553 20150601
WO2015US49170 20150909 EP20150766714 20150909

Probable Assignee: MEAD JOHNSON NUTRITION CO

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Inventor(s): KAHN JOHANNA DEERFIELD ; WIGGINS ROBIN P NEWBURGH

Agent(s): BETHANY J; CARTIGLIA JAMES R; CAWDELL KAREN TERESA; CHINA PATENT AGENT HK LTD; ELZABURU SLP; GOWLING WLG CANADA LLP; IR MIGNI MYRIASANDRA SH MIP MSEL; JAMES R; OSPREYIP PLLC; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; VO

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AR100898 AA	20161109	LSPB	+	published / reissued	
AR103203 AA	20170426	LSPB	+	published / reissued	
AU2015284718 AA	20170105	LSPB	+	published / reissued	
AU2015284718 AA	20200402	LSLE	-MK5	APPLICATION LAPSED SECTION 142(2)(E) - PATENT REQUEST AND COMPL. SPECIFICATION NOT ACCEPTED	
AU2015334095 AA	20170323	LSPB	+	published / reissued	
AU2015334095 BB	20200924	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2015334095 BB	20350909	PEXP		Calculated Patent Term Expiry	
BR112017007016 A2	20200317		B06U	PRELIMINARY REQUIREMENT: REQUESTS WITH SEARCHES PERFORMED BY OTHER PATENT OFFICES: SUSPENSION OF THE PATENT APPLICATION PROCEDURE	
CA2953124 AA	20161220	LSPB	+	published / reissued	
CA2961881 AA	20170320	LSPB	+	published / reissued	
CN106660683 A	20170510	LSPB	+	published / reissued	
CN106660683 A	20170510	LSPB	PB01	PUBLICATION	
CN106660683 A	20170510	LSPB	PB01	公开	Text: 公开 (Disclosure)
CN106660683 A	20170704		SE01	ENTRY INTO FORCE OF REQUEST FOR SUBSTANTIVE EXAMINATION	
CN106660683 A	20170704		SE01	实质审查请求的生效	Text: 实质审查的生效 (Force of substantive review)
CN106660683 A	20180329		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1236489 Ref legal event code: DE Country of Ref document: HK
CN106660683 A	20190709	LSDW	-WD01	INVENTION PATENT APPLICATION DEEMED WITHDRAWN AFTER PUBLICATION	
CN106660683 A	20190709	LSDW	-WD01	发明专利申请公布后的视为撤回	Text: 发明专利申请公布后的视为撤回 (After the publication of the patent application for invention shall be deemed to have been withdrawn)
CN106794923 A	20170531	LSPB	+	published / reissued	
CN106794923 A	20170531	LSPB	PB01	PUBLICATION	
CN106794923 A	20170531	LSPB	PB01	公开	Text: 公开 (Disclosure)
CN106794923 A8	20170630	LSRE	CI01	CORRECTION OF INVENTION PATENT GAZETTE	
CN106794923 A8	20170630	LSRE	CI01	发明专利公报更正	Corrected Item: 14/515,086

					2014.10.15 US (14/515,086 2014.10.15 US) Correction Item: 优先权数据 (Priority Data) Gazette Number: 22 Gazette Volume: 33 Text: 发明专利更正 (Invention patent corrections)
CN106794923 A8	20170630	LSRE	CI02	CORRECTION OF INVENTION PATENT APPLICATION	
CN106794923 A8	20170630	LSRE	CI02	发明专利申请更正	Corrected Item: 14/515,086 2014.10.15 US (14/515,086 2014.10.15 US) Correction Item: 优先权数据 (Priority Data) Gazette Number: 22 Gazette Page: 扉页 Gazette Volume: 33 Text: 发明专利更正 (Invention patent corrections)
CN106794923 A8	20171020		SE01	ENTRY INTO FORCE OF REQUEST FOR SUBSTANTIVE EXAMINATION	
CN106794923 A8	20171020		SE01	实质审查请求的生效	Text: 实质审查的生效 (Force of substantive review)
CN106794923 A8	20180427		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1238224 Ref legal event code: DE Country of Ref document: HK
CN106794923 B	20190920	LSGT	+	granted / extensions (spc, cpc, pte)	
CN106794923 B	20190920	LSGT	+GR01	PATENT GRANT	
CN106794923 B	20190920	LSGT	+GR01	授权	Text: 授权 (Authorization)
CN106794923 B	20350909	PEXP		Calculated Patent Term Expiry	
EP3164341 A1	20170510	LSPB	+	published / reissued	
EP3164341 A1	20170510	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20161220
EP3164341 A1	20170510		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3164341 A1	20170510		+AV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT	Country of Ref document: MA
EP3164341 A1	20170510		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3164341 A1	20171011		DAV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT (DELETED)	
EP3164341 A1	20171011		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3164341 A1	20171213	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: MJN U.S. HOLDINGS LLC PartyType: owner
EP3164341 A1	20180502	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20180405
EP3164341 A1	20190327	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20181016
EP3206962 A1	20170823	LSPB	+	published / reissued	
EP3206962 A1	20170823	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20170413
EP3206962 A1	20170823		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3206962 A1	20170823		+AV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT	Country of Ref document: MA

EP3206962 A1	20170823		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3206962 A1	20171213	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: MJN U.S. HOLDINGS LLC PartyType: owner
EP3206962 A1	20180124		DAV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT (DELETED)	
EP3206962 A1	20180124		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3206962 A1	20180620	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20180516
EP3206962 A1	20190227	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20190130
EP3206962 B1	20190626	LSGT	+	granted / extensions (spc, cpc, pte)	
EP3206962 B1	20190626		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AL AT 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 SM TR
EP3206962 B1	20190626	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP3206962 B1	20190628	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP3206962 B1	20190715	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20190715 Kind code of Ref document: T Ref country code: AT Ref document number: 1148025 Ref legal event code: REF Country of Ref document: AT
EP3206962 B1	20190718	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602015032758 Ref legal event code: R096 Country of Ref document: DE
EP3206962 B1	20190724	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP3206962 B1	20190911		REG	REFERENCE TO A NATIONAL CODE	Ref country code: NL Ref legal event code: FP
EP3206962 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP3206962 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP3206962 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP3206962 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AL
EP3206962 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP3206962 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR

EP3206962 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190815 Year of fee payment: 5 Country of Ref document: FR
EP3206962 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190910 Year of fee payment: 5 Country of Ref document: IE
EP3206962 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190912 Year of fee payment: 5 Country of Ref document: NL
EP3206962 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190827 Year of fee payment: 5 Country of Ref document: DE
EP3206962 B1	20191111	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: LT Ref legal event code: MG4D
EP3206962 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190926 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP3206962 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP3206962 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RS
EP3206962 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190927 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP3206962 B1	20191231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190906 Year of fee payment: 5 Country of Ref document: GB
EP3206962 B1	20200115	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20190626 Kind code of Ref document: T Ref country code: AT Ref document number: 1148025 Ref legal event code: MK05 Country of Ref document: AT
EP3206962 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP3206962 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP3206962 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP3206962 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO

EP3206962 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20191028 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP3206962 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP3206962 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SM
EP3206962 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20191026 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP3206962 B1	20200228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20191001 Year of fee payment: 5 Country of Ref document: ES
EP3206962 B1	20200228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20191022 Year of fee payment: 5 Country of Ref document: IT
EP3206962 B1	20200306	LSGT	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20200306 Kind code of Ref document: T3 Ref country code: ES Ref document number: 2746563 Ref legal event code: FG2A Country of Ref document: ES
EP3206962 B1	20200331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR
EP3206962 B1	20200501	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PL
EP3206962 B1	20200501	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP3206962 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20200224 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP3206962 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MC
EP3206962 B1	20200529	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP3206962 B1	20200603	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602015032758 Ref legal event code: R097 Country of Ref document: DE
EP3206962 B1	20200730		PG2D	INFORMATION ON LAPSE IN CONTRACTING STATE DELETED	
EP3206962 B1	20200731	LSLE	-PG25	LAPSED IN A	Lapsed date: 20190930

				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP3206962 B1	20200731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190930 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP3206962 B1	20200731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190909 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP3206962 B1	20200805	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20200603
EP3206962 B1	20200806		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20190930 Ref country code: BE Ref legal event code: MM
EP3206962 B1	20200831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190626 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP3206962 B1	20200831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190930 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP3206962 B1	20350909	PEXP		Calculated Patent Term Expiry	
ES2746563 T3	20200306	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2746563 T3	20200306	LSGT	+FG2A	DEFINITIVE PROTECTION	Effective date: 20200306 Filing date: 20200306
ES2746563 T3	20350909	PEXP		Calculated Patent Term Expiry	
HK1236489 A1	20180329	LSPB	+	published / reissued	
HK1238224 A1	20180427	LSPB	+	published / reissued	
ID201712378 A	20171110	LSPB	+	published / reissued	
ID201802764 A	20180316	LSPB	+	published / reissued	
IN201617042343 A	20170324	LSPB	+	published / reissued	
IN201717007776 A	20170707	LSPB	+	published / reissued	
MX2016016253 A1	20170406	LSPB	+	published / reissued	
MX2017003998 A1	20170707	LSPB	+	published / reissued	
PH2016502495 A	20170322	LSPB	+	published / reissued	
PH2017500670 A	20171009	LSPB	+	published / reissued	
SG11201610425W A1	20170127	LSPB	+	published / reissued	
SG11201701705W A1	20170427	LSPB	+	published / reissued	
TH167905 A	20170921	LSPB	+	published / reissued	
TH176599 A	20180607	LSPB	+	published / reissued	
TW201615138 A	20160501	LSPB	+	published / reissued	
TW201632429 A	20160916	LSPB	+	published / reissued	
US2016000268 AA	20140804	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS

					INTEREST;ASSIGNORS:WIGGINS, ROBIN P.;KAHN, JOHANNA;SIGNING DATES FROM 20140725 TO 20140730;REEL/FRAME:033455/0071 Owner: MEAD JOHNSON NUTRITION COMPANY, ILLINOIS PartyType: owner
US2016000268 AA	20160107	LSPB	+	published / reissued	
US2016000268 AA	20170221		FRM1	Final Rejection Mailed	
US2016000268 AA	20170524		RFE1	Docketed New Case - Ready for Examination	
US2016000268 AA	20170625	LSES	NFA2	Non Final Action Counted, Not Yet Mailed	
US2016000268 AA	20170706	LSES	NFA1	Non Final Action Mailed	
US2016000268 AA	20171023		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2016000268 AA	20171113		FRM1	Final Rejection Mailed	
US2016000268 AA	20180226		RFE1	Docketed New Case - Ready for Examination	
US2016000268 AA	20180402	LSES	NFA2	Non Final Action Counted, Not Yet Mailed	
US2016000268 AA	20180403	LSES	NFA1	Non Final Action Mailed	
US2016000268 AA	20180926		FRM1	Final Rejection Mailed	
US2016000268 AA	20180926		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: FINAL REJECTION MAILED
US2016000268 AA	20190425	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2016000268 AA	20190425		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US2016000270 AA	20160107	LSPB	+	published / reissued	
US2016000270 AA	20170331	LSES	NFA1	Non Final Action Mailed	
US2016000270 AA	20170715		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2016000270 AA	20170915		FRM1	Final Rejection Mailed	
US2016000270 AA	20171212	LSES	ALW2	Allowed -- Notice of Allowance Not Yet Mailed	
US2016000270 AA	20171213	LSES	NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2016000270 AA	20180314	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US9930996 BB	20141208	LSAS	AS	ASSIGNMENT	Effective date: 20141201 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:WIGGINS, ROBIN P.;KAHN, JOHANNA;REEL/FRAME:034424/0979 Owner: MEAD JOHNSON NUTRITION COMPANY, ILLINOIS PartyType: owner
US9930996 BB	20180314	LSGT	PAT1	Patented Case	
US9930996 BB	20180403	LSGT	+	granted / extensions (spc, cpc, pte)	
US9930996 BB	20340813	PEXP		Calculated Patent	

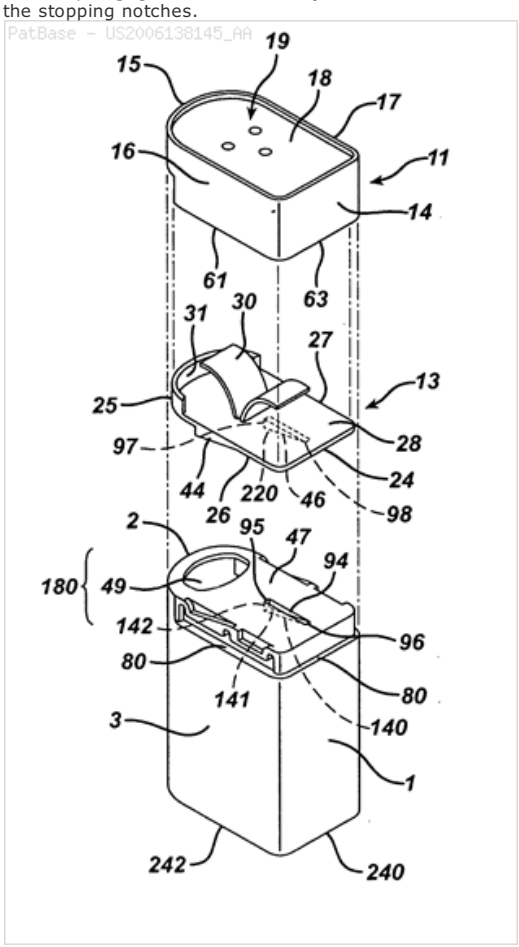
				Term Expiry (PTA 43 days)	
WO16003568 A1	20160107	LSPB	+	published / reissued	
WO16003568 A1	20160217		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 15731432 Country of Ref document: EP
WO16003568 A1	20161208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/A/2016/016253 Country of Ref document: MX
WO16003568 A1	20161214	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 12016502495 Country of Ref document: PH
WO16003568 A1	20161220	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2953124 Country of Ref document: CA
WO16003568 A1	20161220		+REEP	REQUEST FOR ENTRY INTO THE EUROPEAN PHASE	Ref document number: 2015731432 Country of Ref document: EP
WO16003568 A1	20161220	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2015731432 Country of Ref document: EP
WO16003568 A1	20170102	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO16003568 A1	20170105	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 20150601 Kind code of Ref document: A Ref document number: 2015284718 Country of Ref document: AU
WO16060755 A1	20160421	LSPB	+	published / reissued	
WO16060755 A1	20160601		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 15766714 Country of Ref document: EP
WO16060755 A1	20170320	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2961881 Country of Ref document: CA
WO16060755 A1	20170323	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 20150909 Kind code of Ref document: A Ref document number: 2015334095 Country of Ref document: AU
WO16060755 A1	20170327	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/A/2017/003998 Country of Ref document: MX
WO16060755 A1	20170413		+REEP	REQUEST FOR ENTRY INTO THE EUROPEAN PHASE	Ref document number: 2015766714 Country of Ref document: EP
WO16060755 A1	20170413	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2015766714 Country of Ref document: EP
WO16060755 A1	20170418	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO16060755 A1	20170418		REG	REFERENCE TO NATIONAL CODE	Ref country code: BR Ref document number: 112017007016 Ref legal event code: B01A Country of Ref document: BR
WO16060755 A1	20171219	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Effective date: 20170405 Kind code of Ref document: A2 Ref document number: 112017007016 Country of Ref document: BR

29) Family number: 33091347 (US2006138145 AA)

Title: CHILD-RESISTANT **CLOSURE** FOR DISPENSING **CONTAINERS**

Abstract: A child resistant, moveable **closure** member and **container** **device** having an overcap, and inner **closure**, and a **container**, which may have a non-round body. The overcap has opposed end walls and opposed sidewalls, with at least one leading **locking** pin and at least one trailing **locking** pin in at least one of said sidewalls. The inner **closure** may have at least one guiding bar, which extends downwardly from its lower surface, that is compatible in shape with an **opening** slot that may be in at least one of the sidewalls along the upper body of the **container**. The **container** further has a fixed cover portion facing the inner **closure** with a dispensing **opening** therethrough. At least one of the **container** sidewalls may have a closing notch, a stopping notch distal to the closing notch, and an **opening** notch therebetween. When the moveable **closure** is in the operative **closure** position, at least one of the leading **locking** pins is removably engaged in one of the closing notches and at least one of the trailing **locking** pins is removably engaged in at least one of the **open** notches, and the at least one guiding bar lies in the **opening** slot of the **container**. As the moveable **closure** is moved to its operative **open** position, the guiding bar engages and slidably travels along the **opening** slot. When the moveable **closure** is in its operative **open** position, at least one of the leading **locking** pins is removably engaged in one of the **open** notches and at least one of the trailing **locking** pins is removably engaged in one of the stopping notches.

Classifications:
International (IPC 8-9): B65D25/54 B65D43/02 B65D43/12 B65D43/14 B65D43/20 B65D55/02 B65D55/10 B65D83/04
CPC: B65D2401/25 B65D50/04
US: 206/540 215/201 215/216 215/301 215/322 220/252 220/276 220/345.2 220/345.200P 220/345.4 220/345.400S 220/348 220/662



Family:

Publication number	Publication date	Application number	Application date
CA2491696 AA	20060621	CA20042491696	20041224
CA2491696 C	20170711	CA20042491696	20041224
US2006138145 AA	20060629	US20040018051	20041221
US7370773 BB	20080513	US20040018051	20041221
US2009057187 AA	20090305	US20080034763	20080221
US7946447 BB	20110524	US20080034763	20080221

Priority:
US20040018051 20041221 CA20042491696 20041224 US20080034763 20080221

Probable Assignee: MCNEIL PPC INC

Assignee(s): (std): GROSS RICHARD A ; LAY DIETER F ; MCNEIL PPC INC ; MICHAELIAN PETER ; MOSES ERIK J ; MOSES ERIK JOSEPH ; PIRIE CRAIG ; RECCHIUTI KRISTIN ; RINKER ROGER ; SPANO JOHN ; STERLING DANIEL P ; STERLING DANIEL PETER ; TOTH MARY ; VERDURA JAVIER ; WOJNAROWICZ JR LEONARD ; WOJNAROWICZ LEONARD JR

Inventor(s): (std): GROSS RICHARD A ; LAY DIETER F ; MICHAELIAN PETER ; MOSES ERIK J ; MOSES ERIK JOSEPH ; PIRIE CRAIG ; RECCHIUTI KRISTIN ; RINKER ROGER ; SPANO JOHN ; STERLING DANIEL P ; STERLING DANIEL PETER ; TOTH MARY ; VERDURA JAVIER ; WOJNAROWICZ JR LEONARD ; WOJNAROWICZ LEONARD JR

Inventor(s): GROSS RICHARD ; LAY DIETER ; MOSES ERIK ; STERLING DANIEL ; WOJNAROWICZ LEONARD

Agent(s): KAREN G; MCGOWAN WILLIAM E; PHILIP S JOHNSON JOHNSON AND JOHNSON; SMART AND BIGGAR; WILLIAM E

Legal status (INPADOC)

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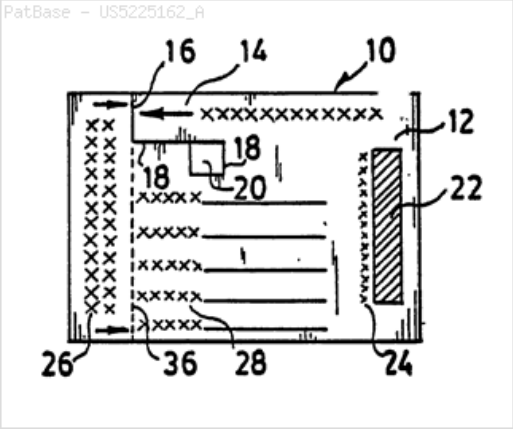
Patent	Date recorded	Event group	Code	Event	Details
CA2491696 AA	20060621	LSPB	+	published / reissued	
CA2491696 AA	20091221	LSES	+EEER	EXAMINATION REQUEST	
CA2491696 C	20170711	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2491696 C	20241224	PEXP		Calculated Patent Term Expiry	
US2006138145 AA	20060629	LSPB	+	published / reissued	
US2006138145 AA	20080423	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2009057187 AA	20090305	LSPB	+	published / reissued	
US2009057187 AA	20110504	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US7370773 BB	20050317	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:TOTH, MARY;VERDURA, JAVIER;PIRIE, CRAIG;AND OTHERS;REEL/FRAME:016367/0804;SIGNING DATES FROM 20050211 TO 20050314 Owner: MCNEIL-PPC, INC., NEW JERSEY PartyType: owner
US7370773 BB	20080423	LSGT	PAT1	Patented Case	
US7370773 BB	20080513	LSGT	+	granted / extensions (spc, cpc, pte)	
US7370773 BB	20110921	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7370773 BB	20150702	LSAS	AS	ASSIGNMENT	Effective date: 20150623 OldParty: MERGER AND CHANGE OF NAME;ASSIGNORS:MCNEIL-PPC, INC.;JOHNSON & JOHNSON CONSUMER INC.;REEL/FRAME:036049/0254 Owner: JOHNSON & JOHNSON CONSUMER INC., NEW JERSEY PartyType: owner
US7370773 BB	20151028	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US7370773 BB	20191031	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 12
US7370773 BB	20260414	PEXP		Calculated Patent Term Expiry (PTA 479 days)	
US7946447 BB	20110504	LSGT	PAT1	Patented Case	
US7946447 BB	20110524	LSGT	+	granted / extensions (spc, cpc, pte)	
US7946447 BB	20141029	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7946447 BB	20150702	LSAS	AS	ASSIGNMENT	Effective date: 20150623 OldParty: MERGER AND CHANGE OF NAME;ASSIGNORS:MCNEIL-PPC, INC.;JOHNSON & JOHNSON CONSUMER INC.;REEL/FRAME:036049/0254 Owner: JOHNSON & JOHNSON CONSUMER INC., NEW JERSEY PartyType: owner
US7946447 BB	20181108	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 8
US7946447 BB	20260210	PEXP		Calculated Patent Term Expiry (PTA 416 days)	

30) Family number: 8981741 (US5225162 A)

Title: DISPOSABLE **TAMPER EVIDENT** **LOCKING** **DEVICE**

Abstract: A **locking** **device** in the shape of a unitary body formed from a bio-degradable material which includes an element with at least one free end formed integral with said body. The severable element is designed to engage and **secure** a **container** **lock** mechanism when the **container** is in a closed position, whereby the free end of the element is capable of being mechanically or adhesively **secured** to said unitary body to form a seal, with said **device** being designed to fracture upon **opening** of the **container** **lock** mechanism thereby providing visible evidence of the **lock** mechanism being **opened**.

Classifications:
International (IPC 8-9): A61L2/26 B65D55/06 G09F3/02 G09F3/03
International (IPC 1-7): A61L2/00 A61L2/06 A61L2/26 B31B1/90 B42D15/00 B65D27/30 B65D55/06 G01N31/00 G01N31/22 G09F3/03 G09F3/10
CPC: A61L2/26 G09F3/0292 Y10S206/807 Y10S283/90 Y10T24/15 Y10T24/153 Y10T292/507 Y10T428/14 Y10T428/24215 Y10T428/24314
US: 206/439 206/807 24/30.50P 24/30.50R 24/30.5P 24/30.5R 283/114 283/74 283/900 283/97 292/307.00A 292/307A 40/299 40/628 40/630 40/665 40/674 422/119 422/26 422/300 422/310 422/401 422/56 428/124 428/136 428/40 428/40.1 428/41 436/1 493/375



Family:

Publication number	Publication date	Application number	Application date
AT124009 E	19950715	AT19910917762T	19911010
CA2094158 AA	19930415	CA19912094158	19911010
CA2094158 C	20010116	CA19912094158	19911010
DE69110687 D1	19950727	DE19916010687T	19911010
DE69110687 T2	19960125	DE19916010687T	19911010
EP0553151 A1	19930804	EP19910917762	19911010
EP0553151 A4	19930513	EP19910917762	19911010
EP0553151 B1	19950621	EP19910917762	19911010
US5225162 A	19930706	US19900598946	19901017
US5382528 A	19950117	US19930016092	19930210
WO9206899 A1	19920430	WO1991US07249	19911010

Priority:
US19900598946 19901017 WO1991US07249 19911010 US19930016092 19930210

Probable Assignee: SPS MED SUPPLY CORP
Assignee(s): (std): SPS MED SUPPLY CORP
Assignee(s): SCOVILLE JOHN ROBERT ; SPS MEDICAL SUPPLY A CORP OF NY CORP ; SPS MEDICAL SUPPLY CORP ; SPS MEDICAL SUPPLY CORP ROCHESTER N Y US
Inventor(s): (std): SCOVILLE JOHN ; SCOVILLE JOHN R ; SCOVILLE JOHN ROBERT
Inventor(s): SCOVILLE JOHN ROBERT HENRIETTA NY 14467 US
Agent(s): BORDEN LADNER GERVAIS LLP
Designated states: AT BE CA CH DE DK ES FR GB GR IT LI LU NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT124009 E	19950715	LSGT	+	granted / extensions (spc, cpc, pte)	
AT124009 E	19951215	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT124009 E	20111010	PEXP		Calculated Patent Term Expiry	
CA2094158 AA	19930415	LSPB	+	published / reissued	
CA2094158 AA	19940113	LSES	+EEER	EXAMINATION REQUEST	
CA2094158 C	20010116	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2094158 C	20061010	LSLE	-MKLA	LAPSED	
CA2094158 C	20111010	PEXP		Calculated Patent Term Expiry	

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DE69110687 T2	19960125	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69110687 T2	19960718	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69110687 T2	20060817	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69110687 T2	20111010	PEXP		Calculated Patent Term Expiry	
EP0553151 A1	19930804	LSPB	+	published / reissued	
EP0553151 A1	19930804	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19930326
EP0553151 A1	19930804		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE CH DE DK ES FR GB GR IT LI LU NL SE
EP0553151 A1	19931201	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 19931015
EP0553151 A1	19950519		+ITF	IT: TRANSLATION FOR A EP PATENT FILED	Owner: DE DOMINICIS & MAYER S.R.L. PartyType: owner
EP0553151 B1	19950621	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP0553151 B1	19950621	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19950621 Country of Ref document: AT
EP0553151 B1	19950621	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19950621 Country of Ref document: BE
EP0553151 B1	19950621	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19950621 Country of Ref document: CH
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EP0553151 B1	19950621	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19950621 NotificationOfLapse: THE PATENT HAS BEEN ANNULLED BY A DECISION OF A NATIONAL AUTHORITY Country of Ref document: ES
EP0553151 B1	19950621	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19950621 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: NL
EP0553151 B1	19950621	LSLE	-PG25	LAPSED IN A CONTRACTING	Lapsed date: 19950621 NotificationOfLapse: LAPSE

				STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP0553151 B1	19950621		REF	CORRESPONDS TO:	Date of Ref document: 19950715 Kind code of Ref document: T Ref document number: 124009 Country of Ref document: AT
EP0553151 B1	19950727		REF	CORRESPONDS TO:	Date of Ref document: 19950727 Ref document number: 69110687 Country of Ref document: DE
EP0553151 B1	19950921	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19950921 Country of Ref document: SE
EP0553151 B1	19950922		+ET	FR: TRANSLATION FILED	
EP0553151 B1	19950929	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP0553151 B1	19951031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19951031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP0553151 B1	19960102	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	Ref country code: EP
EP0553151 B1	19960612	LSGT	+26N	NO OPPOSITION FILED	
EP0553151 B1	20020101		REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: IF02
EP0553151 B1	20041013	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20041013 Year of fee payment: 14 Country of Ref document: GB
EP0553151 B1	20041014	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20041014 Year of fee payment: 14 Country of Ref document: DE
EP0553151 B1	20041026	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20041026 Year of fee payment: 14 Country of Ref document: FR
EP0553151 B1	20051010	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20051010 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GB
EP0553151 B1	20051010	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20051010 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IT
EP0553151 B1	20051010	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20051010 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES;WARNING: LAPSES OF ITALIAN PATENTS WITH EFFECTIVE DATE BEFORE 2007 MAY HAVE OCCURRED AT ANY TIME BEFORE 2007. THE CORRECT EFFECTIVE DATE MAY BE DIFFERENT FROM THE ONE RECORDED. Country of Ref document: IT
EP0553151 B1	20060503	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL	Lapsed date: 20060503 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DE

				OFFICE TO EPO]	
EP0553151 B1	20060628	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20051010 Ref country code: EP
EP0553151 B1	20060630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20060630 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FR
EP0553151 B1	20061020	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20060630 Ref country code: FR Ref legal event code: ST
EP0553151 B1	20111010	PEXP		Calculated Patent Term Expiry	
US5225162 A	19901017	LSAS	AS	ASSIGNMENT	Effective date: 19901016 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST.;ASSIGNOR:SCOVILLE, JOHN R.;REEL/FRAME:005482/0316 Owner: SPS MEDICAL SUPPLY CORPORATION, A CORP OF NY, NEW PartyType: owner
US5225162 A	19930623	LSGT	PAT1	Patented Case	
US5225162 A	19930623	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US5225162 A	19930706	LSGT	+	granted / extensions (spc, cpc, pte)	
US5225162 A	19961220	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5225162 A	20010105	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5225162 A	20010130		REMI	MAINTENANCE FEE REMINDER MAILED	
US5225162 A	20050105	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US5225162 A	20101017	PEXP		Calculated Patent Term Expiry	
US5382528 A	19950117	LSGT	+	granted / extensions (spc, cpc, pte)	
US5382528 A	19980717	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5382528 A	20020703	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5382528 A	20060802		REMI	MAINTENANCE FEE REMINDER MAILED	
US5382528 A	20070117	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5382528 A	20070214	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
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US5382528 A	20130210	PEXP		Calculated Patent Term Expiry	
WO9206899 A1	19920430	LSPB	+	published / reissued	
WO9206899 A1	19920430		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: CA
WO9206899 A1	19920430		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AT BE CH DE DK ES FR GB GR IT LU NL SE
WO9206899 A1	19930326	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1991917762 Country of Ref document: EP
WO9206899 A1	19930415	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2094158 Country of Ref document: CA
WO9206899 A1	19930804	LSPB	+WWP	WIPO	Ref document number:

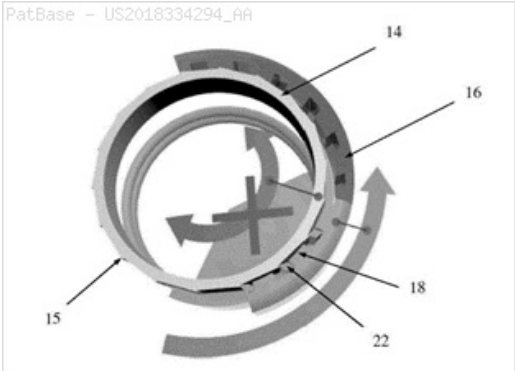
				INFORMATION: PUBLISHED IN NATIONAL OFFICE	1991917762 Country of Ref document: EP
WO9206899 A1	19950621	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 1991917762 Country of Ref document: EP

31) Family number: 62998528 (US2018334294 AA)

Title: THREADED CAP AND NECK SET FOR EVIDENCING TAMPERING WITH **CONTAINERS**

Abstract: The present disclosure provides a threaded cap (**11**) and neck (**12**) set for evidencing tampering with **container** (**13**), comprising a neck (**12**) of a **container** (**13**) having a cylindrical shape and an aperture at its top end, the neck (**12**) having threads on its outer surface and a sealing collar (**14**), the sealing collar (**14**) comprising a plurality of teeth (**15**) and a cap (**1**) having a cylindrical shape and having threads on its inner surface, the cap (**11**) including a **tamper-evident** ring (**16**) attached to the lower rim (**17**) of the cap (**11**), said **tamper-evident** ring (**16**) having a diameter longer than the diameter of the cap (**11**). The **tamper-evident** ring (**16**) comprises multiple reversible grippers (**18**) projecting longitudinally from the lower rim (**17**) of the **tamper-evident** ring (**16**), wherein the reversible grippers (**18**) are coupled to the lower rim (**17**) of the **tamper-evident** ring (**16**) by a hingeable membrane.

Classifications:
International (IPC 8-9): B65D B65D41/34 B65D41/38
CPC: B65D41/3419 B65D41/38 B65D41/3404 B65D41/3423
US: 1/1 215/44



Family:

Publication number	Publication date	Application number	Application date
BR102015029873 A2	20160719	BR20151029873	20151127
BR102015029873 B1	20180619	BR20151029873	20151127
CN107709180 A	20180216	CN201680039074	20160406
CN107709180 B	20200512	CN201680039074	20160406
EP3381831 A1	20181003	EP20160867466	20160406
EP3381831 A4	20190918	EP20160867466	20160406
HK1250229 A1	20181207	HK20180109636	20180725
US2018334294 AA	20181122	US20160779493	20160406
WO17088036 A1	20170601	WO2016BR50076	20160406

Priority:

BR20151029873 20151127 BR20151098730 20151127 WO2016BR50076 20160406

Probable Assignee: JOSE NEVES COSTA PINHEIRO

Assignee(s): (std): JOSE NEVES COSTA PINHEIRO ; PINHEIRO JOSE NEVES COSTA

Inventor(s): (std): JOSE NEVES COSTA PINHEIRO ; PINHEIRO JOSE NEVES COSTA

Agent(s): HOERSCHLER WOLFRAM JOHANNES; KASZNAR LEONARDOS INTELLECTUAL PROPERTY

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BR102015029873 A2	20160719	LSPB	B03B	PUBLICATION OF AN APPLICATION: ANTICIPATED PUBLICATION	
BR102015029873 A2	20180123	LSES	B65X	NOTIFICATION OF REQUIREMENT FOR PRIORITY EXAMINATION OF PATENT APPLICATION	
BR102015029873 A2	20180227	LSES	+B65Y	GRANT OF PRIORITY EXAMINATION OF THE PATENT APPLICATION (REQUEST COMPLIES WITH DEC. 132/06 OF 20061117)	
BR102015029873 A2	20180515	LSGT	B09A	DECISION: INTENTION TO GRANT	
BR102015029873 A2	20180619	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	
BR102015029873 B1	20351127	PEXP		Calculated Patent Term Expiry	

CN107709180 A	20180216	LSPB	+	published / reissued	
CN107709180 A	20180216	LSPB	PB01	PUBLICATION	
CN107709180 A	20180216	LSPB	PB01	公开	Text: 公开 (Disclosure)
CN107709180 A	20181204		SE01	ENTRY INTO FORCE OF REQUEST FOR SUBSTANTIVE EXAMINATION	
CN107709180 A	20181204		SE01	实质审查请求的生效	Text: 实质审查的生效 (Force of substantive review)
CN107709180 A	20181207		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1250229 Ref legal event code: DE Country of Ref document: HK
CN107709180 B	20200512	LSGT	+	granted / extensions (spc, cpc, pte)	
CN107709180 B	20200512	LSGT	+GR01	PATENT GRANT	
CN107709180 B	20200512	LSGT	+GR01	授权	Text: 授权 (Authorization)
CN107709180 B	20360406	PEXP		Calculated Patent Term Expiry	
EP3381831 A1	20181003	LSPB	+	published / reissued	
EP3381831 A1	20181003	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20180614
EP3381831 A1	20181003		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3381831 A1	20181003		+AV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT	Country of Ref document: MA MD
EP3381831 A1	20181003		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3381831 A1	20190306		DAV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT (DELETED)	
EP3381831 A1	20190306		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3381831 A4	20190918	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	Effective date: 20190819
EP3381831 A4	20190918		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 41/34 20060101AFI20190812BHEP
EP3381831 A4	20190918		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 41/38 20060101ALI20190812BHEP
EP3381831 A4	20200325	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20200227
HK1250229 A1	20181207	LSPB	+	published / reissued	
US2018334294 AA	20181106		RFE1	Docketed New Case - Ready for Examination	
US2018334294 AA	20181106		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: DOCKETED NEW CASE - READY FOR EXAMINATION
US2018334294 AA	20181122	LSPB	+	published / reissued	
US2018334294 AA	20200521	LSES	NFA1	Non Final Action Mailed	
WO17088036 A1	20170601	LSPB	+	published / reissued	
WO17088036 A1	20170726		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 16867466 Country of Ref document: EP
WO17088036 A1	20171012		DPE1	REQUEST FOR PRELIMINARY EXAMINATION FILED AFTER EXPIRATION	

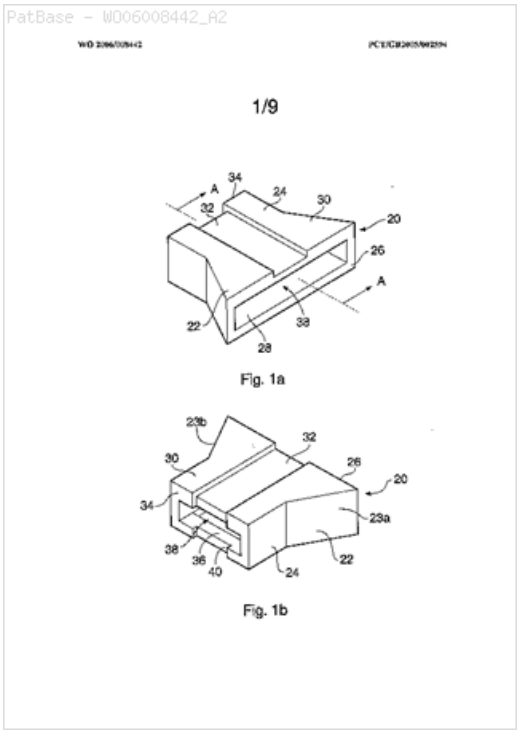
				OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED FROM 20040101)	
WO17088036 A1	20180525	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 15779493 Country of Ref document: US
WO17088036 A1	20180529	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO17088036 A1	20180607		-WD	WITHDRAWAL OF DESIGNATIONS AFTER INTERNATIONAL PUBLICATION	Country of Ref document: BR
WO17088036 A1	20180627	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2016867466 Country of Ref document: EP

32) Family number: 30975053 (WO06008442 A2)

Title: **SECURITY** CLIP

Abstract: A **security** clip is provided for holding a plurality of sheets of material (60, 180), the **security** clip comprising a body (20) having a first aperture (28) defining a reception region (38) into which at least a portion of the plurality of sheets of material can be inserted via the first aperture, a **securing** **device** (50, 120) comprising a **securing** element (54, 124) moveable between a first position where the **securing** element permits insertion of sheets of material into the reception region and removal of sheets therefrom and a second position where the **securing** element co-operates with the body to inhibit removal of one or more sheets from the body, and a **tamper evident** **closure** (57, 140) for preventing access to the **securing** mechanism.

Classifications:
International (IPC 8-9): B42F1/00 B42F1/02 E05G1/00 E05G1/14
International (IPC 1-7): B42F1/02 E05G1/00 E05G1/14
CPC: B42F1/02



Family:

Publication number	Publication date	Application number	Application date
GB200416504 A0	20040825	GB20040016504	20040723
GB2416562 A1	20060201	GB20040016504	20040723
WO06008442 A2	20060126	WO2005GB02594	20050701
WO06008442 A3	20060504	WO2005GB02594	20050701

Priority:

GB20040016504 20040723

Probable Assignee: SPECIALIST VEHICLE DEVELOPMENT

Assignee(s): (std): SEARLE ANDREW ; SPECIALIST VEHICLE DEVELOPMENT

Assignee(s): SPECIALIST VEHICLE DEVELOPMENTS LIMITED ; SPECIALIST VEHICLE DEVELOPMENTS LTD

Inventor(s): (std): SEARLE ANDREW

Inventor(s): ANDREW SEARLE

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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB2416562 A1	20060201	LSPB	+	published / reissued	
GB2416562 A1	20061220	LSWD	-WAP	APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)	
WO06008442 A2	20060126	LSPB	+	published / reissued	
WO06008442 A2	20060126		+AK	DESIGNATED STATES	Kind code of Ref document: A2 Country of Ref document: AE AG AL AM AT

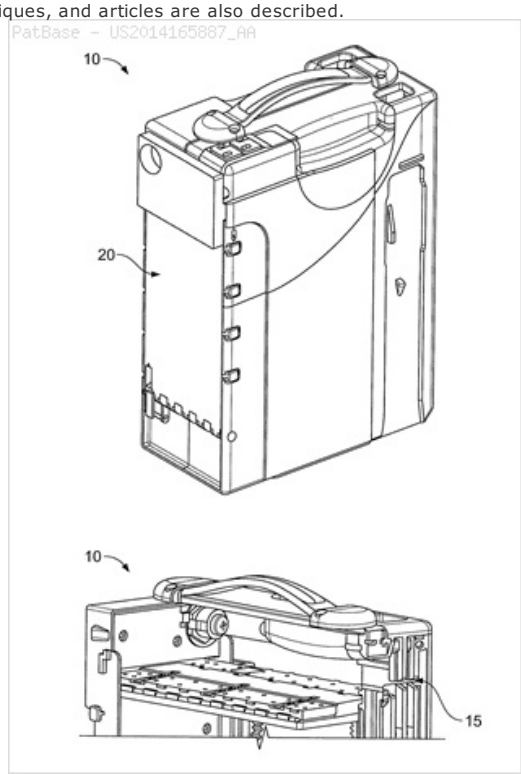
					AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
WO06008442 A2	20060126		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A2 Country of Ref document: AM AT AZ BE BF BG BJ BY CF CG CH CI CM CY CZ DE DK EE ES FI FR GA GB GM GN GQ GR GW HU IE IS IT KE KG KZ LS LT LU LV MC MD ML MR MW MZ NA NE NL PL PT RO RU SD SE SI SK SL SN SZ TD TG TJ TM TR TZ UG ZM ZW
WO06008442 A3	20070124	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	Ref country code: DE
WO06008442 A3	20070905		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO06008442 A3	20071128	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A2 Ref document number: 05756818 Country of Ref document: EP

33) Family number: 56710705 (US2014165887 AA)

Title: **TAMPER EVIDENT** STORAGE **DEVICE** FOR ITEMS OF VALUE

Abstract: A system for storing items of value includes a lockable cassette, a door, a **container**, and a **locking** mechanism. The lockable cassette includes an **opening** for receiving items of value. The door is operably coupled to the cassette and is movable between an **open** position providing access to the contents of the cassette and a closed position preventing access to the contents of the cassette. The **container** is removably coupled to the cassette for **securely** storing items of value and includes a **closure** mechanism configured to restrict access to the stored items of value in the **container**. The **locking** mechanism is coupled to the door and is configured to selectively **lock** the door in the closed position and to selectively operate the **closure** mechanism. Related apparatus, systems, techniques, and articles are also described.

Classifications:
International (IPC 8-9): E05B65/52 E05G1/00 E05G1/026 E05G1/04 G07D11/00
CPC: E05G1/005 E05G1/026 E05G1/04 G07D11/125
US: 1/1 109/59R 109/64



Family:

Publication number	Publication date	Application number	Application date
BR102013032271 A2	20141029	BR20131032271	20131216
CN103871153 A	20140618	CN201310692708	20131217
CN103871153 B	20180710	CN201310692708	20131217
DE602013021922 D1	20170720	DE201360021922T	20131211
EP2743895 A1	20140618	EP20130196752	20131211
EP2743895 B1	20170607	EP20130196752	20131211
ES2635100 T3	20171002	ES20130196752T	20131211
US2014165887 AA	20140619	US20130101625	20131210
US9290983 BB	20160322	US20130101625	20131210
US2016177615 AA	20160623	US20160058025	20160301
ZA201309455 A	20150128	ZA20130009455	20131213

Priority:

US20120737970P 20121217 US20130101625 20131210 EP20130196752 20131211 US20160058025 20160301

Probable Assignee: MEI INC

Assignee(s): (std): CRANE PAYMENT INNOVATIONS INC ; MEI INC

Assignee(s): CRANE PAYMENT INNOVATIONS INC MALVERN

Inventor(s): (std): BANE STEVEN ; BLASKO DAVID ; VARLEY ROBIN

Inventor(s): BANE STEVEN HILDERSTONE STAFFS ; BLASKO DAVID TRAPPE ; DAVID BLASKO ; ROBIN VARLEY ; STEVEN BANE ; VARLEY ROBIN NEWBURY

Agent(s): LEHMANN MARIA ISABEL; PETERREINS FRANK; PETERREINS SCHLEY; PETERREINS SCHLEY PATENT U RECHTSANWAELTE

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
BR102013032271 A2	20141029	LSPB	B03A	PUBLICATION OF AN APPLICATION: PUBLICATION OF A PATENT APPLICATION OR	

				OF A CERTIFICATE OF ADDITION OF INVENTION	
BR102013032271 A2	20181121		B06F	OBJECTIONS, DOCUMENTS AND/OR TRANSLATIONS NEEDED AFTER AN EXAMINATION REQUEST ACCORDING ART. 34 INDUSTRIAL PROPERTY LAW	
BR102013032271 A2	20191231		B06U	PRELIMINARY REQUIREMENT: REQUESTS WITH SEARCHES PERFORMED BY OTHER PATENT OFFICES: SUSPENSION OF THE PATENT APPLICATION PROCEDURE	
BR102013032271 A2	20200623	LSRV	-B11B	DISMISSAL ACC. ART. 36, PAR 1 OF IPL - NO REPLY WITHIN 90 DAYS TO FULLFIL THE NECESSARY REQUIREMENTS	
CN103871153 A	20140618	LSPB	+	published / reissued	
CN103871153 A	20140618	LSPB	+C06	PUBLICATION	
CN103871153 A	20160106		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN103871153 B	20180710	LSGT	+	granted / extensions (spc, cpc, pte)	
CN103871153 B	20180710	LSGT	+GR01	PATENT GRANT	
CN103871153 B	20331217	PEXP		Calculated Patent Term Expiry	
DE602013021922 D1	20161130		R079	AMENDMENT OF IPC MAIN CLASS	ClassificationScheme: IPC ClassificationSymbol: G07D0011000000 Text: PREVIOUS MAIN CLASS: G07D0011000000
DE602013021922 D1	20181127		R079	AMENDMENT OF IPC MAIN CLASS	ClassificationScheme: IPC ClassificationSymbol: G07D0011000000 Text: PREVIOUS MAIN CLASS: G07D0011000000
DE602013021922 D1	20200701	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
EP2743895 A1	20140618	LSPB	+	published / reissued	
EP2743895 A1	20140618	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20131211
EP2743895 A1	20140618		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP2743895 A1	20140618		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP2743895 A1	20140625	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20140521
EP2743895 A1	20160106	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PartyType: owner Owner: CRANE PAYMENT INNOVATIONS, INC.
EP2743895 A1	20170104		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationSymbol: E05G 1/026 20060101ALI20161130BHEP ClassificationScheme: IPC
EP2743895 A1	20170104		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationSymbol: G07D 11/00 20060101AFI20161130BHEP ClassificationScheme: IPC
EP2743895 A1	20170104		RIC1	INFORMATION	ClassificationSymbol: E05G 1/00

				PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	20060101ALI20161130BHEP ClassificationScheme: IPC
EP2743895 A1	20170125	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20170105
EP2743895 B1	20170607	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2743895 B1	20170607		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AL AT 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 SM TR
EP2743895 B1	20170607	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP2743895 B1	20170615	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: EP Ref country code: CH
EP2743895 B1	20170615	LSNP	REG	REFERENCE TO A NATIONAL CODE	Kind code of Ref document: T Ref document number: 899735 Effective date: 20170615 Ref country code: AT Ref legal event code: REF Country of Ref document: AT
EP2743895 B1	20170628	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP2743895 B1	20170720	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 602013021922 Ref country code: DE Ref legal event code: R096 Country of Ref document: DE
EP2743895 B1	20171002	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: ES Kind code of Ref document: T3 Ref document number: 2635100 Ref legal event code: FG2A Effective date: 20171002 Country of Ref document: ES
EP2743895 B1	20171011		REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: MP Effective date: 20170607 Ref country code: NL
EP2743895 B1	20171025	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: MG4D Ref country code: LT
EP2743895 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170607 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2743895 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170908 Country of Ref document: GR
EP2743895 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170607 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR
EP2743895 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: LT
EP2743895 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170907 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP2743895 B1	20171115	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 899735 Effective date: 20170607 Ref legal event code: MK05 Kind code of Ref document: T Ref country code: AT Country of Ref document: AT
EP2743895 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: NL
EP2743895 B1	20171130	LSLE	-PG25	LAPSED IN A	Lapsed date: 20170607

				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RS
EP2743895 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: LV
EP2743895 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170607 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP2743895 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170907 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP2743895 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170607 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2743895 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170607 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP2743895 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: EE
EP2743895 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170607 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2743895 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170607 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2743895 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 5 Payment date: 20171206 Country of Ref document: DE
EP2743895 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: PL
EP2743895 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170607 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SM
EP2743895 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20171007 Country of Ref document: IS
EP2743895 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171206 Year of fee payment: 5 Country of Ref document: GB

EP2743895 B1	20180308	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref legal event code: R097 Ref document number: 602013021922 Country of Ref document: DE
EP2743895 B1	20180430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170607 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP2743895 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 5 Payment date: 20180102 Country of Ref document: ES
EP2743895 B1	20180516	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20180308
EP2743895 B1	20180531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: SI
EP2743895 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171221 Year of fee payment: 5 Country of Ref document: IT
EP2743895 B1	20180731	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: PL Ref country code: CH
EP2743895 B1	20180919	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP2743895 B1	20180928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20171211 Country of Ref document: LU
EP2743895 B1	20180928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20171211 Country of Ref document: MT
EP2743895 B1	20180928	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: ST Effective date: 20180831
EP2743895 B1	20181018		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20171231 Ref country code: BE Ref legal event code: MM
EP2743895 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20180102 Country of Ref document: FR
EP2743895 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20171211 Country of Ref document: IE
EP2743895 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20171231 Country of Ref document: CH
EP2743895 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20171231 Country of Ref document: BE
EP2743895 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20171231 Country of Ref document: LI

EP2743895 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20181127 Year of fee payment: 6 Country of Ref document: DE
EP2743895 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 6 Payment date: 20181205 Country of Ref document: GB
EP2743895 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190102 Year of fee payment: 6 Country of Ref document: ES
EP2743895 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 6 Payment date: 20181220 Country of Ref document: IT
EP2743895 B1	20190628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: MC
EP2743895 B1	20190628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20131211 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO Country of Ref document: HU
EP2743895 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20170607 Country of Ref document: CY
EP2743895 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: MK
EP2743895 B1	20200331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: TR
EP2743895 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20191213 Year of fee payment: 7 Country of Ref document: GB
EP2743895 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: PT
EP2743895 B1	20200701	LSDW	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 602013021922 Ref legal event code: R119 Ref country code: DE Country of Ref document: DE
EP2743895 B1	20200731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20170607 Country of Ref document: AL
EP2743895 B1	20331211	PEXP		Calculated Patent Term Expiry	
ES2635100 T3	20171002	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2635100 T3	20331211	PEXP		Calculated Patent Term Expiry	

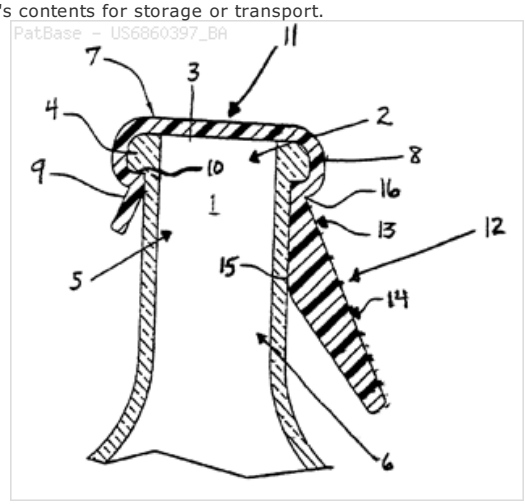
US2014165887 AA	20140619	LSPB	+	published / reissued	
US2014165887 AA	20151027	LSAS	AS	ASSIGNMENT	Effective date: 20150122 OldParty: CHANGE OF NAME;ASSIGNOR:MEI, INC.;REEL/FRAME:036981/0237 Owner: CRANE PAYMENT INNOVATIONS, INC., PENNSYLVANIA PartyType: owner
US2014165887 AA	20160302	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2016177615 AA	20160416		RFE1	Docketed New Case - Ready for Examination	
US2016177615 AA	20160623	LSPB	+	published / reissued	
US2016177615 AA	20171010	LSES	NFA1	Non Final Action Mailed	
US2016177615 AA	20180120		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2016177615 AA	20180410	LSES	NFA1	Non Final Action Mailed	
US2016177615 AA	20181015	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2016177615 AA	20181015		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US9290983 BB	20140131	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:BANE, STEVEN;VARLEY, ROBIN;BLASKO, DAVID;SIGNING DATES FROM 20130110 TO 20130221;REEL/FRAME:032101/0750 Owner: MEI, INC., PENNSYLVANIA PartyType: owner
US9290983 BB	20151029		RSP1	Response after Final Action Forwarded to Examiner	
US9290983 BB	20151112	LSES	NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US9290983 BB	20160302	LSGT	PAT1	Patented Case	
US9290983 BB	20160322	LSGT	+	granted / extensions (spc, cpc, pte)	
US9290983 BB	20191111	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US9290983 BB	20200427	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US9290983 BB	20200427	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US9290983 BB	20200427	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US9290983 BB	20200519	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20200322
US9290983 BB	20331210	PEXP		Calculated Patent Term Expiry	
ZA201309455 A	20150128	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201309455 A	20331212	PEXP		Calculated Patent Term Expiry	

34) Family number: 31715656 (US6860397 BA)

Title: EASY **OPEN** **CONTAINER** **CLOSURE**

Abstract: The present invention provides a **container** **closure** with a handle, wherein the handle acts as a lever when squeezed against the neck of the **container**. The force on the lever handle is transferred to the **container** **closure** forcing a portion of the **closure** to slip over the bead of the **container** and release the **closure**'s hold on the **container**'s top. Once the **closure**'s hold is released, the **closure** is easily removed from the **container**. The **closure** is reusable and can be replaced over the **container** **opening** to **secure** the **container**'s contents for storage or transport.

Classifications:
International (IPC 8-9): B65D41/00 B65D41/16 B65D41/18 B65D41/22 B65D41/46
International (IPC 1-7): B65D41/16 B65D41/22
CPC: B65D41/16 B65D41/18 B65D41/22 B65D47/127 B65D50/061 B65D55/026 Y10S215/901 Y02W30/80
US: 215/295 215/304 215/305 215/317 215/321 215/321S 215/324 215/901 220/281 220/793



Family:

Publication number	Publication date	Application number	Application date
US6860397 BA	20050301	US20000579050	20000526
US2005189313 AA	20050901	US20050049821	20050203
US7568586 BB	20090804	US20050049821	20050203
WO06083606 A2	20060810	WO2006US02322	20060124
WO06083606 A3	20071129	WO2006US02322	20060124

Priority:
US19990136332P 19990526 US20000579050 20000526 US20050049821 20050203

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2005189313 AA	20050901	LSPB	+	published / reissued	
US6860397 BA	20050209	LSGT	PAT1	Patented Case	
US6860397 BA	20050209	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US6860397 BA	20050301	LSGT	+	granted / extensions (spc, cpc, pte)	
US6860397 BA	20080902	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6860397 BA	20120904	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6860397 BA	20161007		REMI	MAINTENANCE FEE REMINDER MAILED	
US6860397 BA	20170227	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6860397 BA	20170227		+SULP	SURCHARGE FOR LATE PAYMENT	Year of fee payment: 11
US6860397 BA	20200526	PEXP		Calculated Patent Term Expiry	
US7568586 BB	20090715	LSGT	PAT1	Patented Case	
US7568586 BB	20090804	LSGT	+	granted / extensions (spc, cpc, pte)	

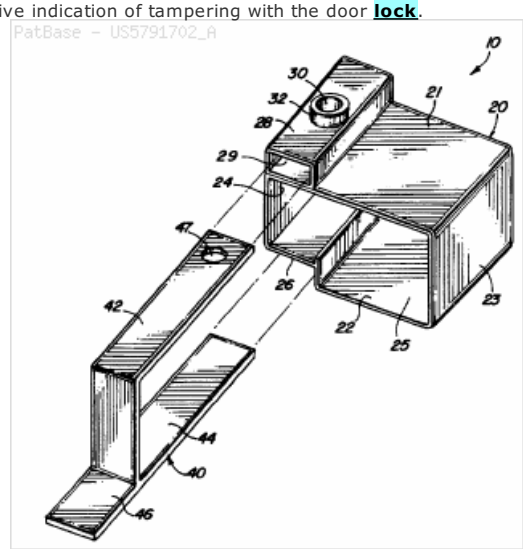
US7568586 BB	20130204	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7568586 BB	20170317		REMI	MAINTENANCE FEE REMINDER MAILED	
US7568586 BB	20170904	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7568586 BB	20170904	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7568586 BB	20170904	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7568586 BB	20170926	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20170804
US7568586 BB	20220119	PEXP		Calculated Patent Term Expiry (PTA 603 days and a terminal disclaimer has been filed)	
WO06083606 A2	20060810	LSPB	+	published / reissued	
WO06083606 A2	20060920		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO06083606 A2	20070804	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO06083606 A3	20080402	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A2 Ref document number: 06719253 Country of Ref document: EP

35) Family number: 11072425 (US5791702 A)

Title: **TAMPER EVIDENT**, CARGO **CONTAINER** DOOR **LOCK**

Abstract: A **tamper evident**, cargo **container** door **lock** structured to be used on a cargo **container** of the type having a pair of doors **secured** in a closed orientation by a **closure** assembly of the type including a **lock** rod and an actuation handle connected to the **lock** rod to facilitate pivotal movement of the **lock** rod and permit slided movement thereof to release the door from the closed orientation, the door **lock** including a primary shroud assembly formed of a substantially strong, cut resistant metal and structured to cover and shield from external access a connection joint between the actuation handle and the **lock** rod of the **closure** assembly, thereby preventing access to the connection joint without cutting or removing the primary shroud assembly. Further, the door **lock** includes a pivot brace which **securely** engages the primary shroud assembly and prevent pivotal movement thereof about an axis of the **lock** rod, thereby preventing pivotal movement of the actuation handle and the connection joint of the **closure** assembly which are encased by the primary shroud assembly. Both the pivot brace and the primary shroud assembly are covered by a **tamper evident** coating which is substantially difficult to un-noticeably repair upon the primary shroud assembly or the pivot brace, and accordingly the **tamper evident** coating, being cut, thereby providing a clear, positive indication of tampering with the door **lock**.

Classifications:
International (IPC 8-9): E05B13/00 E05B65/12 E05B65/16
International (IPC 1-7): B65D55/00
CPC: E05B13/002 E05B83/10 Y10T292/48 Y10T292/51 Y10T70/5735
US: 292/307.00R 292/307R 292/327 70/202



Family:

Publication number	Publication date	Application number	Application date
US5791702 A	19980811	US19960675038	19960703

Priority:
US19960675038 19960703

Probable Assignee: LIROFF JEFF
Assignee(s): LIROFF JEFF
Inventor(s): (std): LIROFF JEFF

Legal status (INPADOC)

View legal status timeline

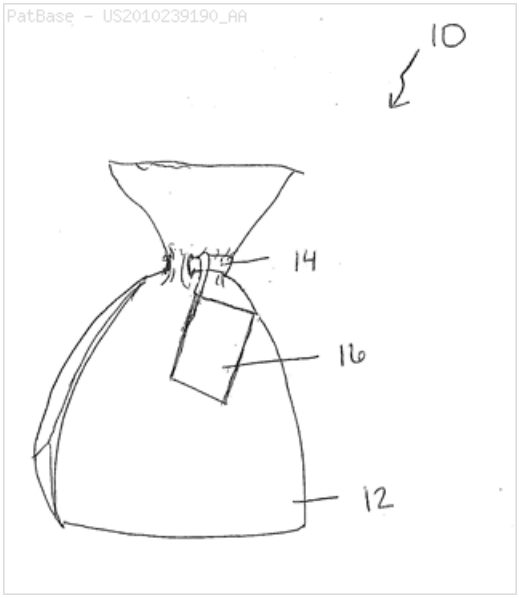
Patent	Date recorded	Event group	Code	Event	Details
US5791702 A	19980811	LSGT	+	granted / extensions (spc, cpc, pte)	
US5791702 A	20010928	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5791702 A	20060301		REMI	MAINTENANCE FEE REMINDER MAILED	
US5791702 A	20060811	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5791702 A	20060913	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5791702 A	20060913	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5791702 A	20061010	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20060811
US5791702 A	20160703	PEXP		Calculated Patent Term Expiry	

36) Family number: 46870438 (US2010239190 AA)

Title: **Tamper-Evident** System and Methods For Storing Property

Abstract: A **tamper-evident** system and method is disclosed to be used to provide evidence that the contents in a **container** have or have not been tampered with prior to the intended **opening** of the **container**. The **tamper-evident** system and method also acts as a deterrent to those attempting unauthorized access the contents of the **container**. The system and method of the present invention can be practiced or used in conjunction with bulky items such as winter coats and boots, sleeping bags and with **containers**, such as suitcases, backpacks, bags, briefcases, either singularly or in total with cubic capacity that is greater than that available in two-dimensional **tamper-evident** **containers**, particularly those with distinct hard corners to be used by, for example, a patient at a hospital or medical facility, or computers and the like that are being removed for evidentiary purposes.

Classifications:
International (IPC 8-9): B31B1/74 B31B41/14 B65D33/16
CPC: B65D33/16 B65D33/34 B65D63/1027
US: 383/5 383/5P 493/210 493/210S 493/227 493/227S



Family:

Publication number	Publication date	Application number	Application date
US2010239190 AA	20100923	US20100729908	20100323

Priority:
US20090210802P 20090323 US20100729908 20100323

Probable Assignee: MAKOWKA KENNETH
Assignee(s): (std): MAKOWKA KENNETH ; MCNAMARA AMBROSE J
Inventor(s): (std): MAKOWKA KENNETH ; MCNAMARA AMBROSE J
Agent(s): VALAUSKAS AND PINE LLC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2010239190 AA	20100923	LSPB	+	published / reissued	
US2010239190 AA	20121022	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010239190 AA	20121022		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION

37) Family number: 8462153 (EP0618146 A2)

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

Abstract: A **container** **closure** cap having a lid portion that is connectable to a base cap is disclosed. The lid portion includes a tongue portion that is connected to the remainder of the lid by a living hinge and a pair of fracturable tear lines. In order to access the **container** through the lid, the tongue must be raised, which causes the rupture of the tear lines and thus provides visual proof that the underlying **container** has been tampered with.

Classifications:
International (IPC 8-9): B65D47/08 B65D55/06
International (IPC 1-7): B65D41/34 B65D47/08 B65D47/36 B65D55/02 B65D55/06
CPC: B65D2401/15 B65D47/089

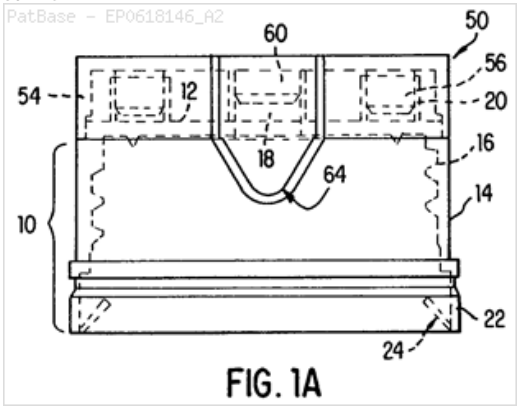


FIG. 1A

Family:

Publication number	Publication date	Application number	Application date
AU199454799 A1	19941006	AU19940054799	19940131
CA2114972 AA	19941003	CA19942114972	19940204
EP0618146 A2	19941005	EP19940101628	19940203
EP0618146 A3	19950405	EP19940101628	19940203

Priority:
US19930043070 19930402 CA19942114972 19940204

Probable Assignee: KERR GROUP INC
Assignee(s): (std): KERR GROUP INC
Assignee(s): HERR JAMES E
Inventor(s): (std): HERR JAMES E
Inventor(s): JAMES E HERR
Agent(s): BORDEN LADNER GERVAIS LLP; FB RICE; FB RICE PTY LTD
Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

View legal status timeline

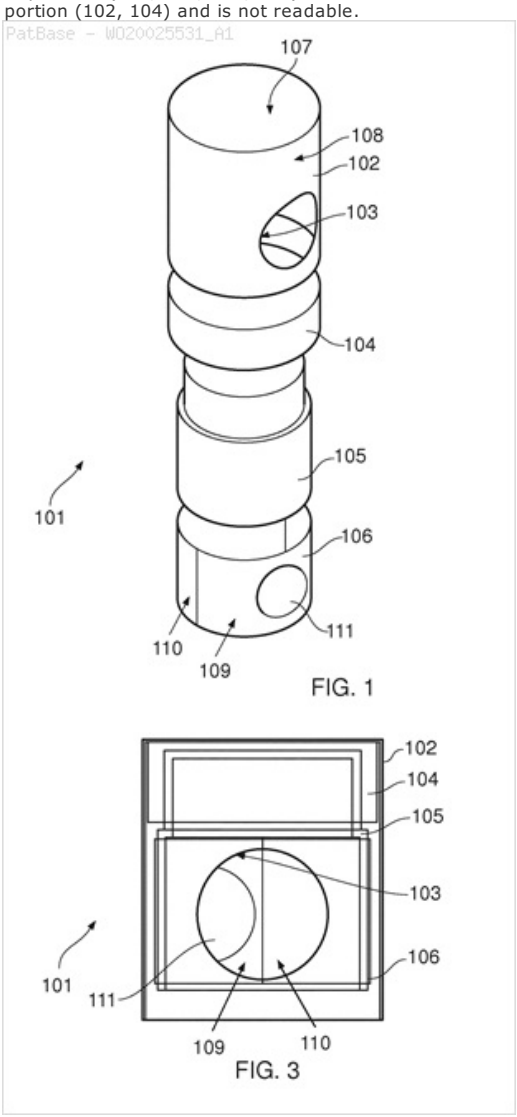
Patent	Date recorded	Event group	Code	Event	Details
AU199454799 A1	19941006	LSPB	+	published / reissued	
CA2114972 AA	19941003	LSPB	+	published / reissued	
CA2114972 AA	19960804	LSLE	-FZDE	DEAD	
EP0618146 A2	19941005	LSPB	+	published / reissued	
EP0618146 A2	19941005		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
EP0618146 A3	19950405		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A3 Country of Ref document: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
EP0618146 A3	19951206	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19951004
EP0618146 A3	19960207	LSWD	-18W	APPLICATION WITHDRAWN	Date Application Withdrawn: 19951211

38) Family number: 71306834 (WO20025531 A1)

Title: A **TAMPER-EVIDENT** **CLOSURE** COMPRISING A RFID TAG

Abstract: A **tamper-evident** **closure** (101) for a **container** neck comprises a first portion (105, 106), a second portion (102, 104) comprising a window (103) through which a view of the first portion is visible, a **locking** mechanism, and an RFID **device** (107) associated with the first portion (105, 106). The second portion (102, 104) is rotatable relative to the first portion (105, 106) upon first **opening** of the **tamper-evident** **closure** (101) from a first position in which the first and second portions (105, 106; 102, 104) are in a first relative relation and the RFID **device** (107) is aligned with the window (103) and is readable, to a second position in which the first and second portions (105, 106; 102, 104) are in a second relative relation and the RFID **device** (107) is masked by the second portion (102, 104) and is not readable.

Classifications:
International (IPC 8-9): B65D55/02 G06K19/00
CPC: B65D2203/10 B65D55/022 B65D55/026 B65D55/028



Family:

Publication number	Publication date	Application number	Application date
GB201812531 A0	20180912	GB20180012531	20180801
GB2576009 A1	20200205	GB20180012531	20180801
WO20025531 A1	20200206	WO2019EP70341	20190729

Priority:
GB20180012531 20180801

Probable Assignee: OBRIST CLOSURES SWITZERLAND

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

Inventor(s): (std): ALEXANDER DONALD MEIKLEM MCPHERSON ; ANTONELLI MARCO ; MARCO ANTONELLI ; MCPHERSON ALEXANDER DONALD MEIKLEM

Agent(s): BRYERS LLP ET AL

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB2576009 A1	20200205	LSPB	+	published / reissued	

GB2576009 A1	20200325		732E	AMENDMENTS TO THE REGISTER IN RESPECT OF CHANGES OF NAME OR CHANGES AFFECTING RIGHTS (SECT. 32/1977)	Text: REGISTERED BETWEEN 20200227 AND 20200304
WO20025531 A1	20200206	LSPB	+	published / reissued	
WO20025531 A1	20200318		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 19746469 Country of Ref document: EP

39) Family number: 79348178 (WO20118286 A1)

Title: FURNITURE DRAWER **SECUREMENT** **DEVICE**

Abstract: A **tamper-evident** **securement** **device** for use in **securing** closed a drawer of a furniture, comprising: a flexible extending **closure** member comprising an at least partially flexible attaching portion disposed within the furniture, and a flexible **locking** portion comprising a distal end section that traverses a gap between the drawer and a drawer **opening** when the drawer is closed, and provides an aperture that is disposed outside the furniture; and a **securement** member disposed within the furniture that attaches the extending **closure** member to an inner surface of a top side of the furniture; wherein a **lock** **device** can be inserted through the aperture of the flexible **locking** portion. The **tamper-evident** **securement** **device** may employ a shield plate. For installation of the **tamper-evident** **securement** **device**, an implement may be utilized.

Classifications:
International (IPC 8-9): E05B39/00 E05B65/46
CPC: E05B65/46 E05B67/383

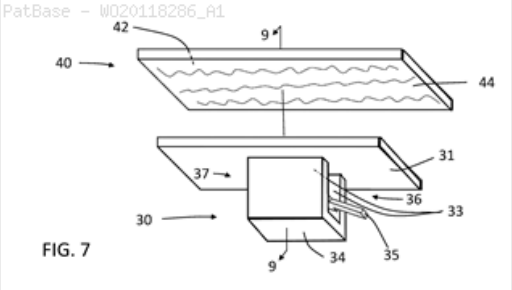


FIG. 7

Family:

Publication number	Publication date	Application number	Application date
WO20118286 A1	20200611	WO2019US65116	20191207

Priority:
US20180776828P 20181207

Probable Assignee: TRINH ALBERT LONG

Assignee(s): (std): TRINH ALBERT LONG ; TRINH DAVID LAM ; TRINH DENNIS SAM ; TRINH TOAN

Inventor(s): (std): TRINH ALBERT LONG ; TRINH DAVID LAM ; TRINH DENNIS SAM ; TRINH TOAN

Agent(s): NESBITT DANIEL F

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

Legal status (INPADOC)

View legal status timeline

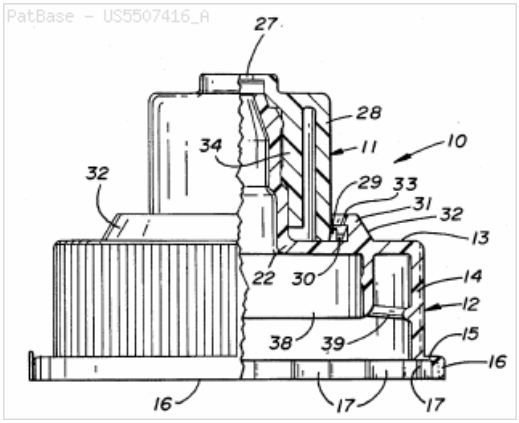
Patent	Date recorded	Event group	Code	Event	Details
WO20118286 A1	20200611	LSPB	+	published / reissued	
WO20118286 A1	20200722		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 19893563 Country of Ref document: EP

40) Family number: 13185566 (US5507416 A)

Title: **TAMPER EVIDENT** PUSH PULL RESEALABLE CAP

Abstract: An improvement for a **tamper evident** resealable cap for use on a bottle, the cap having an upstanding spout that is registerable with an **opening** in the center of the cap and a sealing plug of a smaller diameter positioned thereabove on multiple upstanding legs extending from the spout. The improvement is directed towards a detachable annular ring **secured** to the cap by a plurality of frangible elements thereabout, the ring is arranged for restrictive registration with a **locking** shoulder that extends from the top of the cap body. The cap body has a **tamper evident** band **secured** to the cap by a plurality of circumferentially spaced frangible elements with a plurality of annularly spaced radially inwardly extending annular projections and is registerable with a neck portion of the bottle to prevent rotation in one direction without removal of the **tamper evident** ring.

Classifications:
International (IPC 8-9): B65D41/32 B65D41/34 B65D41/48 B65D43/08 B65D43/10 B65D47/04 B65D47/24 B65D51/18
International (IPC 1-7): B67D5/33
CPC: B65D2251/0015 B65D2251/0087 B65D2401/15 B65D2401/20 B65D41/3409 B65D41/48 B65D47/243 B65D51/18
US: 222/153.07 222/153.1 222/153.14 222/525



Family:

Publication number	Publication date	Application number	Application date
US5507416 A	19960416	US19940314674	19940929
US5657906 A	19970819	US19950536623	19950928
US5662247 A	19970902	US19960616367	19960315

Priority:
US19940314674 19940929 US19950536623 19950928 US19960616367 19960315

Probable Assignee: WEST PENN PLASTICS
Assignee(s): (std): WEST PENN PLASTICS
Assignee(s): WEST PENN PLASTICS RD
Inventor(s): (std): MARINO MICHAEL ; RAPCHAK THOMAS P

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
US5507416 A	19950105	LSAS	AS	ASSIGNMENT	PartyType: owner Owner: WEST PENN PLASTICS, PENNSYLVANIA Effective date: 19941229 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MARINO, MICHAEL;RAPCHAK, THOMAS;REEL/FRAME:007292/0342
US5507416 A	19960416	LSGT	+	granted / extensions (spc, cpc, pte)	
US5507416 A	19990923	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5507416 A	20030926	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5507416 A	20071022		REMI	MAINTENANCE FEE REMINDER MAILED	
US5507416 A	20080416	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5507416 A	20080512	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5507416 A	20080512	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5507416 A	20080603	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20080416
US5507416 A	20140929	PEXP		Calculated Patent Term Expiry	
US5657906 A	19970819	LSGT	+	granted / extensions (spc, cpc, pte)	

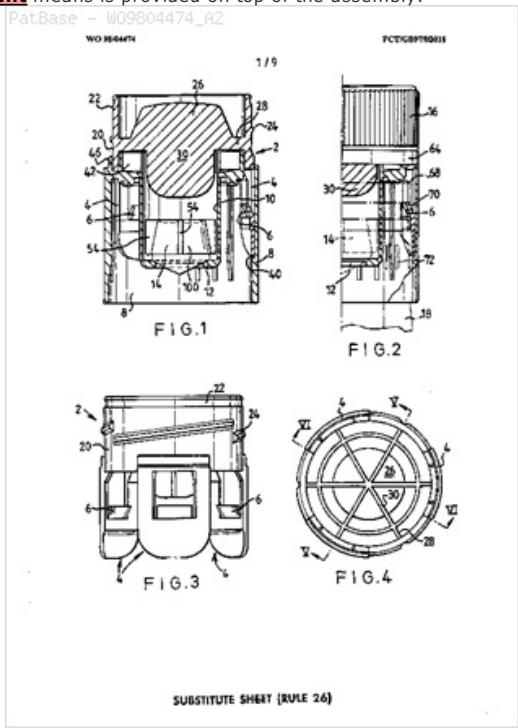
US5657906 A	20010122	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5657906 A	20050215	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5657906 A	20090223		REMI	MAINTENANCE FEE REMINDER MAILED	
US5657906 A	20090819	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5657906 A	20090914	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5657906 A	20090914	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5657906 A	20091006	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20090819
US5657906 A	20150928	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US5662247 A	19960531	LSAS	AS	ASSIGNMENT	PartyType: owner Owner: WEST PENN PLASTICS, PENNSYLVANIA Effective date: 19960528 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:MARINO, MICHAEL;REEL/FRAME:007970/0688
US5662247 A	19970902	LSGT	+	granted / extensions (spc, cpc, pte)	
US5662247 A	19980901	LSRE	CC	CERTIFICATE OF CORRECTION	
US5662247 A	20010130	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5662247 A	20050228	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5662247 A	20090309		REMI	MAINTENANCE FEE REMINDER MAILED	
US5662247 A	20090902	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5662247 A	20090928	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5662247 A	20090928	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5662247 A	20091020	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20090902
US5662247 A	20160315	PEXP		Calculated Patent Term Expiry	

41) Family number: 20605057 (WO9804474 A2)

Title: LIQUID **CONTAINER** **CLOSURE** ASSEMBLY

Abstract: There is disclosed an improved **closure** assembly for application to a mouth of a **container** for liquid, for example, a neck of a bottle. It is an objection of the improvement to provide a **closure** assembly which cannot be removed without an extreme level of effort, or breakage being caused to the bottle. A **closure** assembly adapted to be applied to a mouth and neck portion of a **container** for liquid, comprises tubular means (2, 2') adapted to lie substantially concentrically with respect to said mouth and provided with projection means (6, 6') projecting inwardly of the tubular means (2, 2'), said projection means (6, 6') being moveable radially of the tubular means (2, 2') in a stiffly resilient manner, the **closure** assembly being further provided with a supporting sleeve means (10, 10') adapted to surround at least the projection means (6, 6') of said tubular means (2, 2'). A screw-cap with **tamper-evident** means is provided on top of the assembly.

Classifications:
International (IPC 8-9): B65D41/34 B65D45/00 B65D45/32 B65D49/00 B65D49/04
International (IPC 1-7): B65D41/34 B65D45/32 B65D49/04 B65D55/02
CPC: B65D2401/10 B65D2401/15 B65D2401/55 B65D41/3409 B65D45/32 B65D49/04



Family:

Publication number	Publication date	Application number	Application date
AU199737008 A1	19980220	AU19970037008	19970728
BRPI9710788 A	19990817	BR1997PI10788	19970728
CN1226217 A	19990818	CN19971096858	19970728
EP0918700 A2	19990602	EP19970933763	19970728
GB9615966 A0	19960911	GB19960015966	19960730
GB9706883 A0	19970521	GB19970006883	19970404
GB2323839 A1	19981007	GB19980007015	19980402
GB2323839 B2	20010808	GB19980007015	19980402
GB9807015 A0	19980603	GB19980007015	19980402
RU99104146 A	20010120	RU19990104146	19970728
WO9804474 A2	19980205	WO1997GB02018	19970728
WO9804474 A3	19980319	WO1997GB02018	19970728

Priority:
GB19960015966 19960730 GB19970006883 19970404 WO1997GB02018 19970728

Probable Assignee: MONTGOMERY DANIEL AND SON LTD

Assignee(s): (std): FAULKNER ALAN ; MONTGOMERY DANIEL AND SON LTD ; SLOANE CRAIG MARTIN ; THOMSON DAVID WILLIAM

Assignee(s): DANIEL MONTGOMERY AND SON LTD

Inventor(s): (std): FAUKUNER ALAN ; FAULKNER ALAN ; SLOANE CRAIG MARTIN ; THOMSON DAVID WILLIAM ; WILLIAM DAVID THOMSON

Inventor(s): ALAN FAUKUNER ; ALAN FAULKNER ; CRAIG MARTIN SLOANE ; DAVID THOMSON WILLIAM ; DAVID WILLIAM THOMSON

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199737008 A1	19980220	LSPB	+	published / reissued	
BRPI9710788 A	19990817	LSPB	+	published / reissued	
BRPI9710788 A	20031021	LSRV	-FA10	DISMISSAL: DISMISSAL -	

				ARTICLE 33 OF INDUSTRIAL PROPERTY LAW	
BRPI9710788 A	20040608	LSRV	-B11Y	DEFINITIVE DISMISSAL ACC. ARTICLE 33 OF IPL - EXTENSION OF TIME LIMIT FOR REQUEST OF EXAMINATION EXPIRED	
CN1226217 A	19990818	LSPB	+	published / reissued	
CN1226217 A	19990818	LSPB	+C06	PUBLICATION	
CN1226217 A	19990825		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN1226217 A	20020417	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
EP0918700 A2	19990602	LSPB	+	published / reissued	
EP0918700 A2	19990602	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19990115
EP0918700 A2	19990602		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
EP0918700 A2	19990825	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 19990707
EP0918700 A2	20001227	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20000707
GB2323839 A1	19981007	LSPB	+	published / reissued	
GB2323839 B2	20010808	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2323839 B2	20051228	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20050402
GB2323839 B2	20180402	PEXP		Calculated Patent Term Expiry	
RU99104146 A	20010120	LSPB	+	published / reissued	
WO9804474 A2	19970728	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 97196858.6 Country of Ref document: CN
WO9804474 A2	19980205	LSPB	+	published / reissued	
WO9804474 A2	19980205		+AK	DESIGNATED STATES	Kind code of Ref document: A2 Country of Ref document: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
WO9804474 A2	19980205		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A2 Country of Ref document: AT BE CH DE DK ES FI FR GB GH GR IE IT KE LS LU MC MW NL SD SZ UG ZW
WO9804474 A3	19980319		DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO9804474 A3	19980603		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO9804474 A3	19990112	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1997933763 Country of Ref document: EP
WO9804474 A3	19990216	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 09230386 Country of Ref document: US
WO9804474 A3	19990602	LSWD	REG	REFERENCE TO NATIONAL CODE	Ref country code: DE Ref legal event code: 8642
WO9804474 A3	19990602	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1997933763 Country of Ref document: EP
WO9804474 A3	19990604	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref document number: 1998508603 Country of Ref document:

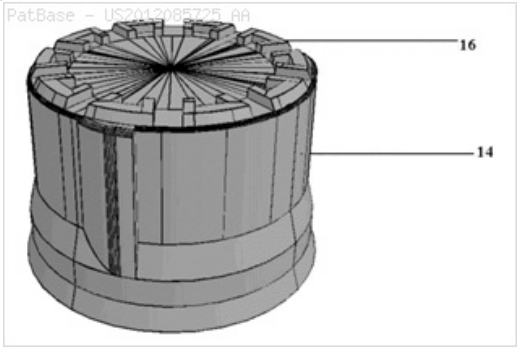
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WO9804474 A3	20000130	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: CA
WO9804474 A3	20000707	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	Ref document number: 1997933763 Country of Ref document: EP

42) Family number: 47726518 (US2012085725 AA)

Title: CHILD RESISTANT SCREW CAP

Abstract: The present invention relates to a child resistant cap assembly having an outer cap and an inner cap assembly that is difficult to be **opened** by children, and at the same time is simple and easy to use by adults. At the time of **locking**, the outer cap block and the inner cap block is stuck and after **locking**, are immovable. The cap is difficult to **open** by children. To **open** the cap, one must push the outer cap down and then turn the cap. The child resistant cap assembly has an outer cap, an inner cap assembly that is difficult to be **opened** by children and at the same time is simple and easy to use by a grownup. The child resistant cap assembly has an outer cap and an inner cap assembly that is difficult to be **opened** by children and at the same time is simple and easy to use by a grownup.

Classifications:
International (IPC 8-9): B65D50/00 B65D50/04
CPC: B65D2215/04 B65D2251/02 B65D50/041
US: 215/220



Family:

Publication number	Publication date	Application number	Application date
IN02835MU2010 A	20101203	IN2010MU02835	20101012
US2012085725 AA	20120412	US20110073142	20110328

Priority:
IN2010MU02835 20101012

Probable Assignee: PAREKHPLAST INDIA PVT LTD
Assignee(s) (std): PAREKH TUSHAR ; PAREKHPLAST INDIA PRIVATE LTD ; SONAWANE PANKAJ
Assignee(s): PAREKHPLAST INDIA PRIVATE LIMITED ; PAREKHPLAST INDIA PVT LTD
Inventor(s) (std): PAREKH TUSHAR ; SONAWANE PANKAJ
Inventor(s): PANKAJ SONAWANE ; TUSHAR PAREKH

Legal status (INPADOC)

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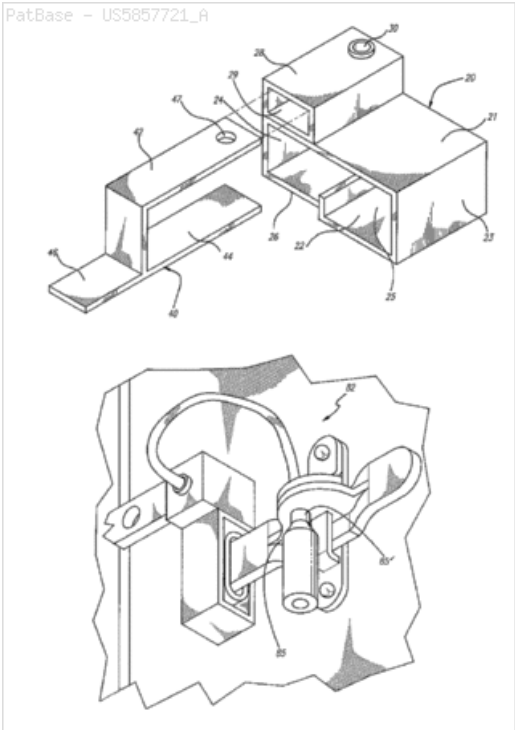
Patent	Date recorded	Event group	Code	Event	Details
IN02835MU2010 A	20101203	LSPB	+	published / reissued	
US2012085725 AA	20120412	LSPB	+	published / reissued	
US2012085725 AA	20130912	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2012085725 AA	20130912		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION

43) Family number: 15932903 (US5857721 A)

Title: CARGO SEAL

Abstract: An improved cargo seal structured to **securely** close a **container** having at least one door, the cargo seal including a **lock** assembly, including at least one **lock** aperture, that **secures** the door in a closed orientation, and an elongate segment of substantially strong, generally flexible material. The elongate segment is structured to extend through the **lock** aperture of the **lock** assembly so as to restrict movement and/or actuation of the **lock** assembly, and is sufficiently elongate to extend across the doors and thereby prevent **opening** thereof. A pair of **lock** segments are further provided and are correspondingly disposed at a first end and a second end of the elongate segment, at least one of the **lock** segments being structured to be **securely** coupled with at least one mating segment at the first end of the elongate segment. Each of the **lock** segments has an increased diameter relative to a diameter of the elongate segment at its first end and second end so as to prevent removal of the elongate segment from the **lock** aperture by passage over the first end and the second end of the elongate segment. Moreover, each of the **lock** segments further includes an identifying indicia disposed thereon so as to prevent its unauthorized replacement.

Classifications:
International (IPC 8-9): B65D90/00 E05B13/00 E05B65/12 E05B65/16 E05B67/00 E05B67/38
International (IPC 1-7): B65D2/730 B65D27/30 E05B6/506 E05B65/06
CPC: B65D2211/00 B65D90/008 E05B13/002 E05B67/003 E05B67/383 E05B83/12 Y10S292/32 Y10T292/48 Y10T292/499
US: 292/307.00R 292/307R 292/321 292/DIG.32 292/DIG.032



Family:

Publication number	Publication date	Application number	Application date
US5857721 A	19990112	US19970801843	19970218
US6113163 A	20000905	US19980188483	19981109
US6331022 BA	20011218	US20000649739	20000828

Priority:
US19970801843 19970218 US19980188483 19981109 US20000649739 20000828

Probable Assignee: LIROFF JEFF
Assignee(s): LIROFF JEFF
Inventor(s): (std): LIROFF JEFF
Inventor(s): JEFF LIROFF
Agent(s): MALLOY AND MALLOY PA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5857721 A	19981222	LSGT	PAT1	Patented Case	
US5857721 A	19981222	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US5857721 A	19990112	LSGT	+	granted / extensions (spc, cpc, pte)	
US5857721 A	20020315	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5857721 A	20060117	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5857721 A	20100226	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US5857721 A	20170218	PEXP		Calculated Patent Term Expiry	
US6113163 A	20000818	LSGT	PAT1	Patented Case	

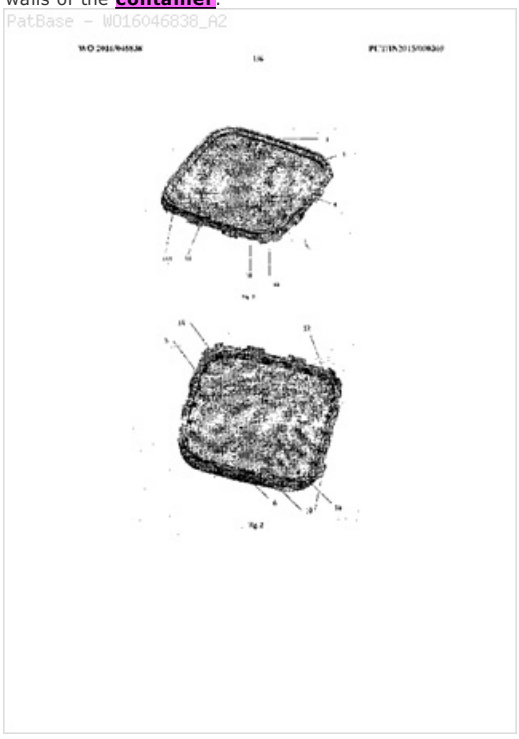
US6113163 A	20000818	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US6113163 A	20000905	LSGT	+	granted / extensions (spc, cpc, pte)	
US6113163 A	20031125	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6113163 A	20080306	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6113163 A	20080306		+SULP	SURCHARGE FOR LATE PAYMENT	Year of fee payment: 7
US6113163 A	20080317		REMI	MAINTENANCE FEE REMINDER MAILED	
US6113163 A	20110930	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6113163 A	20181109	PEXP		Calculated Patent Term Expiry	
US6331022 BA	20011129	LSGT	PAT1	Patented Case	
US6331022 BA	20011129	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US6331022 BA	20011218	LSGT	+	granted / extensions (spc, cpc, pte)	
US6331022 BA	20041222	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6331022 BA	20081222	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6331022 BA	20130607	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6331022 BA	20200828	PEXP		Calculated Patent Term Expiry	

44) Family number: 62004936 (WO16046838 A2)

Title: **TAMPER-EVIDENT** LEAK-PROOF PAIL **CLOSURE** SYSTEMS

Abstract: The present invention is related to a **tamper-evident** **closure** -**container** combination having specially designed features, The features comprise **tamper-evidence** and a tear away band which, CM be pulled out in anti-clockwise direction around the periphery of the **container**. The **closure** has primary and secondary **locking** facilities which allow the **container** to be used effectively. The **container** is shaped and configured such that the **closure** fits, into the sections defined so that a primary zone or zones of weight transfer between the **closure** and the **container** occurs at the surface of the side wall of the **container**. The **closure** is shaped and configured to take up the load, of the **container** when they are arranged atop, each other and transfer the same to the side walls of the **container**.

Classifications:
International (IPC 8-9): B65D B65D43/02
CPC: B65D2543/00027 B65D2543/00101 B65D2543/00222 B65D2543/00296 B65D2543/00453 B65D2543/00462 B65D2543/00518 B65D2543/00537 B65D2543/00555 B65D2543/00629 B65D2543/00685 B65D2543/0074 B65D2543/00796 B65D2543/00833 B65D43/0235 B65D43/0237 B65D43/0239 B65D43/0254



Family:

Publication number	Publication date	Application number	Application date
IN04705CH2014 A	20160701	IN2014CH04705	20140925
WO16046838 A2	20160331	WO2015IN00369	20150923
WO16046838 A3	20160602	WO2015IN00369	20150923
WO16046838 A4	20160728	WO2015IN00369	20150923

Priority:
IN2014CH04705 20140925

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
IN04705CH2014 A	20160701	LSPB	+	published / reissued	
WO16046838 A2	20160331	LSPB	+	published / reissued	
WO16046838 A2	20160511		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A2 Ref document number: 15797712 Country of Ref document: EP
WO16046838 A4	20170327	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE

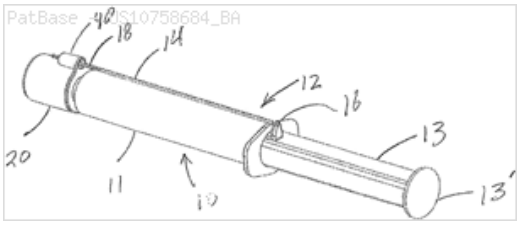
WO16046838 A4	20171025	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A2 Ref document number: 15797712 Country of Ref document: EP

45) Family number: 80773621 (US10758684 BA)

Title: **TAMPER EVIDENT** ASSEMBLY

Abstract: A **tamper evident** assembly for retaining a plunger and piston within a barrel of a syringe including an elongated tether and a cover connected to the tether and concurrently disposed in an operative position on the syringe. A connector assembly adjustably and fixedly interconnects the tether to the cover in the operative position, wherein the cover is connected in covering relation to a discharge port of the syringe concurrently to a proximal end of the tether being connected to the syringe barrel in a removal preventative relation to the piston. Movable adjustment of the tether relative to the connector assembly defines a retaining segment disposed into a taut, fixed length orientation between the proximal end of the tether and the cover, to further define the operative position.

Classifications:
International (IPC 8-9): A61M5/31 A61M5/50
CPC: A61M2205/276 A61M5/3134 A61M5/3135 A61M5/5086



Family:

Publication number	Publication date	Application number	Application date
US10758684 BA	20200901	US20180912300	20180305

Priority:

US20170466701P 20170303 US20180912300 20180305

Probable Assignee: INT MEDICAL IND INC

Assignee(s): (std): BANIK ROBERT ; HUNT TIMOTHY BRANDON ; VITELLO JONATHAN J

Assignee(s): INT MEDICAL IND INC

Inventor(s): (std): BANIK ROBERT ; HUNT TIMOTHY BRANDON ; VITELLO JONATHAN J

Agent(s): MALLOY AND MALLOY PL

Legal status (INPADOC)

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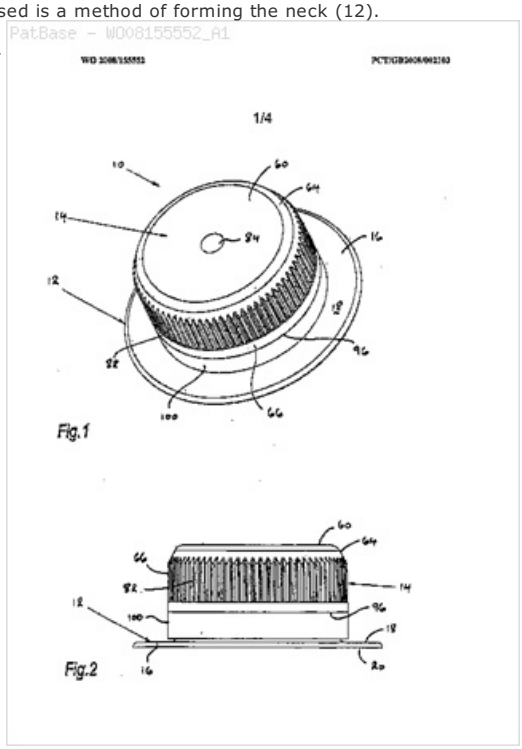
Patent	Date recorded	Event group	Code	Event	Details
US10758684 BA	20180305	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: ENTITY STATUS SET TO UNDISCOUNTED (ORIGINAL EVENT CODE: BIG.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US10758684 BA	20180329	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: ENTITY STATUS SET TO SMALL (ORIGINAL EVENT CODE: SMAL); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US10758684 BA	20200812	LSGT	PAT1	Patented Case	
US10758684 BA	20200901	LSGT	+	granted / extensions (spc, cpc, pte)	
US10758684 BA	20381218	PEXP		Calculated Patent Term Expiry (PTA 288 days)	

46) Family number: 35563238 (WO08155552 A1)

Title: **CLOSURE** SYSTEM AND ITS METHOD OF FORMING

Abstract: A **closure** system comprising a neck (12), a cap (14) engageable with the neck (12) and a **locking** member (40) attached to the neck (12). The **locking** member (40) is orientated in a first position with respect to the neck (12) to facilitate moulding of the neck (12) and is orientated in a second position with respect to the neck (12) to prevent removal of at least a portion of the cap (14) from the neck (12). The **locking** member (40) is moved from said first position to said second position upon application of the cap (14) to the neck (12). Also disclosed is a method of forming the neck (12).

Classifications:
International (IPC 8-9): B29C B29C45/40 B65D B65D1/02 B65D1/34 B65D41/00 B65D41/04 B65D41/47 B65D43/00
International (IPC 1-7): B29C45/40 B65D1/02 B65D1/34
CPC: B65D1/0246 B65D2401/15 B65D41/3442 B65D41/47



Family:

Publication number	Publication date	Application number	Application date
AU2008264964 AA	20081224	AU20080264964	20080619
AU2008264964 BB	20110407	AU20080264964	20080619
BRPI0813134 A2	20141223	BR2008PI13134	20080619
BRPI0813134 B1	20190205	BR2008PI13134	20080619
CA2690645 AA	20091211	CA20082690645	20080619
CN101784453 A	20100721	CN200880020693	20080619
CN101784453 B	20120111	CN200880020693	20080619
DE602008029405 D1	20140213	DE200860029405T	20080619
DK2160330 T3	20140317	DK20080762420T	20080619
EP2160330 A1	20100310	EP20080762420	20080619
EP2160330 B1	20131218	EP20080762420	20080619
ES2449240 T3	20140318	ES20080762420T	20080619
GB200711838 A0	20070725	GB20070011838	20070619
IN02318MN2009 A	20100604	IN2009MN02318	20091212
MX2009014007 A1	20100802	MX20090014007	20080619
PL2160330 T3	20140530	PL20080762420T	20080619
PT2160330 T	20140325	PT20080762420T	20080619
RU2010100924 A	20110810	RU20100100924	20080619
RU2461500 C2	20120920	RU20100100924	20080619
SI2160330 T1	20140430	SI200800311666T	20080619
WO08155552 A1	20081224	WO2008GB02103	20080619
ZA200909112 A	20110330	ZA20090009112	20091221

Priority:
GB20070011838 20070619 WO2008GB02103 20080619 EP20080762420 20080619

Probable Assignee: PORTOLA PACKAGING LTD

Assignee(s): (std): MAVIN GERRY ; PORTOLA PACKAGING LTD ; PORTOLA PEKEDZHIN LTD ; STEPHENSON TIMOTHY

Assignee(s): PORTOLA PACKAGING LIMITED ; PORTOLA PACKAGING LTD DONCASTER ; PORTOLA PEKEDZHIN LIMITED

Inventor(s): (std): GERRY MAVIN ; MAVIN GERRY ; MEJVIN GERRI ; STEFENSON TIMOTI ; STEPHENSON TIMOTHY ; STEPHENSON TIMOTHY GRAHAM ; TIMOTHY STEPHENSON

Agent(s): BEETZ AND PARTNER MBB; BOULT WADE TENNANT; MCCARTHY TETRAULT LLP; MCLEISH NICHOLAS ALISTAIR; MCLEISH NICHOLAS ALISTAIR MAXWELL; SPRUSON AND FERGUSON; UNGRIA 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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2008264964 AA	20081224	LSPB	+	published / reissued	
AU2008264964 BB	20110407	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2008264964 BB	20110804	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2008264964 BB	20280619	PEXP		Calculated Patent Term Expiry	
BRPI0813134 A2	20180502		B06A	NOTIFICATION TO APPLICANT TO REPLY TO THE REPORT FOR NON-PATENTABILITY OR INADEQUACY OF THE APPLICATION ACCORDING ART. 36 INDUSTRIAL PATENT LAW	
BRPI0813134 A2	20180605		B06I	TECHNICAL AND FORMAL REQUIREMENTS: PUBLICATION CANCELLED	
BRPI0813134 A2	20180807		B06A	NOTIFICATION TO APPLICANT TO REPLY TO THE REPORT FOR NON-PATENTABILITY OR INADEQUACY OF THE APPLICATION ACCORDING ART. 36 INDUSTRIAL PATENT LAW	
BRPI0813134 A2	20181204	LSGT	B09A	DECISION: INTENTION TO GRANT	
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BRPI0813134 B1	20280619	PEXP		Calculated Patent Term Expiry	
CA2690645 AA	20091211	LSPB	+	published / reissued	
CA2690645 AA	20091211	LSES	+EEER	EXAMINATION REQUEST	
CA2690645 AA	20130814	LSLE	-FZDE	DEAD	Effective date: 20130619
CN101784453 A	20100721	LSPB	+	published / reissued	
CN101784453 A	20100721	LSPB	+C06	PUBLICATION	
CN101784453 A	20100915		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN101784453 B	20120111	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101784453 B	20120111	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101784453 B	20280619	PEXP		Calculated Patent Term Expiry	
DE602008029405 D1	20130618		R079	AMENDMENT OF IPC MAIN CLASS	ClassificationSymbol: B65D0041470000 Text: PREVIOUS MAIN CLASS: B65D0001020000 ClassificationScheme: IPC
DK2160330 T3	20140317	LSGT	+	granted / extensions (spc, cpc, pte)	
DK2160330 T3	20280619	PEXP		Calculated Patent Term Expiry	
EP2160330 A1	20100310	LSPB	+	published / reissued	
EP2160330 A1	20100310	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20100112
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EP2160330 A1	20100922		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
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EP2160330 A1	20130724		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 41/47 20060101AFI20130618BHEP
EP2160330 A1	20130731	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20130703
EP2160330 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160629 Year of fee payment: 9 Country of Ref document: FI
EP2160330 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 9 Payment date: 20160627 Country of Ref document: ES
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EP2160330 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 9 Payment date: 20160627 Country of Ref document: CH
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EP2160330 A1	20160831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160606 Year of fee payment: 9 Country of Ref document: RO
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EP2160330 B1	20140115	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20140115 Ref country code: AT Ref document number: 645517 Kind code of Ref document: T Ref legal event code: REF Country of Ref document: AT
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EP2160330 B1	20140213	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: R096 Effective date: 20140213 Ref country code: DE Ref document number: 602008029405 Country of Ref document: DE
EP2160330 B1	20140227	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: RO Ref legal event code: EPE
EP2160330 B1	20140317		REG	REFERENCE TO A NATIONAL CODE	Ref country code: DK Effective date: 20140311 Ref legal event code: T3
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					Effective date: 20140318 Ref country code: ES Ref legal event code: FG2A Country of Ref document: ES
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EP2160330 B1	20140325		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20140317 Ref country code: PT Ref legal event code: SC4A Text: AVAILABILITY OF NATIONAL TRANSLATION
EP2160330 B1	20140325		REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: TRGR Ref country code: SE
EP2160330 B1	20140331		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref legal event code: NV Representative: KIRKER AND CIE S.A., CH Ref country code: CH
EP2160330 B1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20131218 Country of Ref document: HR
EP2160330 B1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20131218 Country of Ref document: LT
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EP2160330 B1	20140526	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: LT Ref legal event code: MG4D
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EP2160330 B1	20140702		REG	REFERENCE TO A NATIONAL CODE	Ref country code: SK Ref document number: E 16135 Ref legal event code: T3 Country of Ref document: SK
EP2160330 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20140418 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
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EP2160330 B1	20141028	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref document number: E020688 Ref legal event code: AG4A Ref country code: HU Country of Ref document: HU
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EP2160330 B1	20160331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20131218 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MT
EP2160330 B1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20131218 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
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EP2160330 B1	20170627	LSFE	REG	REFERENCE TO A NATIONAL CODE	Year of fee payment: 10 Ref country code: FR Ref legal event code: PLFP
EP2160330 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170626 Year of fee payment: 10 Country of Ref document: DK
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EP2160330 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170627 Year of fee payment: 10 Country of Ref document: CH
EP2160330 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170606 Year of fee payment: 10 Country of Ref document: RO
EP2160330 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170628 Year of fee payment: 10 Country of Ref document: GR
EP2160330 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 10 Payment date: 20170627 Country of Ref document: GB
EP2160330 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 10 Payment date: 20170607 Country of Ref document: CZ

EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170626 Year of fee payment: 10 Country of Ref document: LU
EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170531 Year of fee payment: 10 Country of Ref document: PL
EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170605 Year of fee payment: 10 Country of Ref document: PT
EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170628 Year of fee payment: 10 Country of Ref document: FI
EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170628 Year of fee payment: 10 Country of Ref document: SE
EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170602 Year of fee payment: 10 Country of Ref document: SI
EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 10 Payment date: 20170601 Country of Ref document: AT
EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170627 Year of fee payment: 10 Country of Ref document: BE
EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 10 Payment date: 20170622 Country of Ref document: IT
EP2160330 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170626 Year of fee payment: 10 Country of Ref document: NL
EP2160330 B1	20170929	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 10 Payment date: 20170605 Country of Ref document: TR
EP2160330 B1	20170929	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170602 Year of fee payment: 10 Country of Ref document: HU
EP2160330 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170628 Year of fee payment: 10 Country of Ref document: NO
EP2160330 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170628 Year of fee payment: 10 Country of Ref document: DE
EP2160330 B1	20171031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170705 Year of fee payment: 10 Country of Ref document: ES
EP2160330 B1	20180626	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: PLFP Year of fee payment: 11 Ref country code: FR
EP2160330 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180531 Country of Ref document: SK
EP2160330 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180627 Country of Ref document: FI
EP2160330 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE	Payment date: 20180628 Year of fee payment: 11

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EP2160330 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180601 Country of Ref document: PT
EP2160330 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180627 Country of Ref document: LU
EP2160330 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180626 Country of Ref document: NL
EP2160330 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180613 Country of Ref document: CZ
EP2160330 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180626 Country of Ref document: FR
EP2160330 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180627 Year of fee payment: 11 Country of Ref document: GR
EP2160330 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180601 Country of Ref document: AT
EP2160330 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180608 Year of fee payment: 11 Country of Ref document: RO
EP2160330 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180606 Year of fee payment: 11 Country of Ref document: SI
EP2160330 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180601 Country of Ref document: PL
EP2160330 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180627 Year of fee payment: 11 Country of Ref document: BE
EP2160330 B1	20180831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180606 Year of fee payment: 11 Country of Ref document: TR
EP2160330 B1	20180928	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180607 Country of Ref document: HU
EP2160330 B1	20180928	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180627 Country of Ref document: SE
EP2160330 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180627 Year of fee payment: 11 Country of Ref document: GB
EP2160330 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180702 Year of fee payment: 11 Country of Ref document: ES
EP2160330 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180621 Year of fee payment: 11 Country of Ref document: IT
EP2160330 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE	Year of fee payment: 11 Payment date: 20180628

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EP2160330 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20180627 Country of Ref document: DE
EP2160330 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180625 Year of fee payment: 11 Country of Ref document: DK
EP2160330 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180704 Year of fee payment: 11 Country of Ref document: CH
EP2160330 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190603 Country of Ref document: PL
EP2160330 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190603 Year of fee payment: 12 Country of Ref document: PT
EP2160330 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190627 Year of fee payment: 12 Country of Ref document: DK
EP2160330 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190627 Country of Ref document: LU
EP2160330 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190627 Year of fee payment: 12 Country of Ref document: IE
EP2160330 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190627 Year of fee payment: 12 Country of Ref document: NO
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EP2160330 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190607 Country of Ref document: CZ
EP2160330 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190626 Year of fee payment: 12 Country of Ref document: NL
EP2160330 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190621 Country of Ref document: IT
EP2160330 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190627 Country of Ref document: BE
EP2160330 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190625 Year of fee payment: 12 Country of Ref document: FR
EP2160330 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190627 Country of Ref document: GR
EP2160330 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190613 Country of Ref document: TR
EP2160330 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM	Year of fee payment: 12 Payment date: 20190627 Country of Ref document: SE

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EP2160330 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190604 Year of fee payment: 12 Country of Ref document: RO
EP2160330 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190607 Country of Ref document: HU
EP2160330 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190603 Year of fee payment: 12 Country of Ref document: SI
EP2160330 B1	20190930	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190603 Year of fee payment: 12 Country of Ref document: SK
EP2160330 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190701 Year of fee payment: 12 Country of Ref document: ES
EP2160330 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190627 Year of fee payment: 12 Country of Ref document: GB
EP2160330 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190627 Year of fee payment: 12 Country of Ref document: DE
EP2160330 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190603 Year of fee payment: 12 Country of Ref document: AT
EP2160330 B1	20200131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20190702 Country of Ref document: CH
EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200629 Year of fee payment: 13 Country of Ref document: DE
EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20200625 Country of Ref document: FR
EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20200604 Country of Ref document: TR
EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20200604 Country of Ref document: RO
EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200629 Year of fee payment: 13 Country of Ref document: DK
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EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200629 Year of fee payment: 13 Country of Ref document: NO
EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO	Payment date: 20200604 Year of fee payment: 13 Country of Ref document: CZ

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EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200608 Year of fee payment: 13 Country of Ref document: PT
EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200629 Year of fee payment: 13 Country of Ref document: GR
EP2160330 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20200629 Country of Ref document: FI
EP2160330 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200626 Year of fee payment: 13 Country of Ref document: NL
EP2160330 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200629 Year of fee payment: 13 Country of Ref document: BE
EP2160330 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20200602 Country of Ref document: SK
EP2160330 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200602 Year of fee payment: 13 Country of Ref document: PL
EP2160330 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20200603 Country of Ref document: SI
EP2160330 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200629 Year of fee payment: 13 Country of Ref document: SE
EP2160330 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20200629 Country of Ref document: GB
EP2160330 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200619 Year of fee payment: 13 Country of Ref document: IT
EP2160330 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200617 Year of fee payment: 13 Country of Ref document: HU
EP2160330 B1	20280619	PEXP		Calculated Patent Term Expiry	
ES2449240 T3	20140318	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2449240 T3	20280619	PEXP		Calculated Patent Term Expiry	
GB200711838 A0	20081231	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
IN02318MN2009 A	20100604	LSPB	+	published / reissued	
MX2009014007 A1	20100802	LSPB	+	published / reissued	
MX2009014007 A1	20120215	LSGT	+FG	GRANT OR REGISTRATION	
PL2160330 T3	20140530	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2160330 T	20140325	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2160330 T	20280619	PEXP		Calculated Patent Term Expiry	
RU2010100924 A	20110810	LSPB	+	published / reissued	
RU2461500 C2	20120920	LSGT	+	granted / extensions (spc, cpc, pte)	

RU2461500 C2	20280619	PEXP		Calculated Patent Term Expiry	
SI2160330 T1	20140430	LSGT	+	granted / extensions (spc, cpc, pte)	
SI2160330 T1	20280619	PEXP		Calculated Patent Term Expiry	
WO08155552 A1	20080619	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200880020693.3 Country of Ref document: CN
WO08155552 A1	20081224	LSPB	+	published / reissued	
WO08155552 A1	20090218		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 08762420 Country of Ref document: EP
WO08155552 A1	20091211	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2690645 Country of Ref document: CA
WO08155552 A1	20091212	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2318/MUMNP/2009 Country of Ref document: IN
WO08155552 A1	20091217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2008264964 Country of Ref document: AU
WO08155552 A1	20091217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/A/2009/014007 Country of Ref document: MX
WO08155552 A1	20091222	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO08155552 A1	20100112	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2008762420 Country of Ref document: EP
WO08155552 A1	20100114	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2008264964 Date of Ref document: 20080619 Country of Ref document: AU
WO08155552 A1	20100119	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2010100924 Country of Ref document: RU
WO08155552 A1	20140513		REG	REFERENCE TO NATIONAL CODE	Ref country code: BR Ref legal event code: B01A Ref document number: PI0813134 Country of Ref document: BR
WO08155552 A1	20141223	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A2 Ref document number: PI0813134 Effective date: 20091221 Country of Ref document: BR
ZA200909112 A	20110330	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200909112 A	20291220	PEXP		Calculated Patent Term Expiry	

47) Family number: 57607487 (US2016060006 AA)

Title: **CONTAINER**

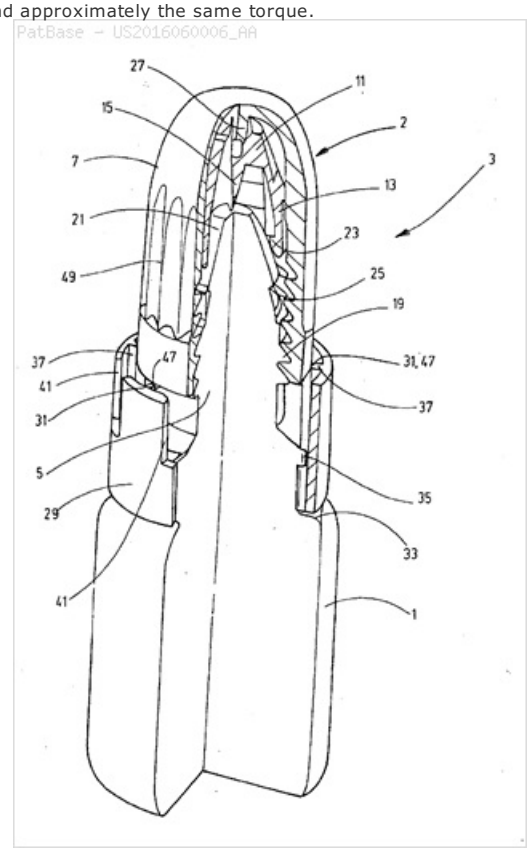
Abstract: A **container**, in particular a plastic vial produced in the blow-moulding method and filled and closed in the mould, comprising a neck part (5) joining a **container** body (1), onto which neck part a one-part or multi-part cap (2) can be placed, in particular slipped, a fixing part (29) being associated with the cap (2), which fixing part is connected to the cap (2) by means of at least one predetermined breaking point (31), which can be detached by a relative rotational motion between the cap (2) and the **Container** body (1) or parts of the **Container** body, is characterized in that each predetermined breaking point (31) can be detached by rotational motions that occur both in the one rotational direction and in the other rotational direction with approximately the same angle of rotation and approximately the same torque.

Classifications:

International (IPC 8-9): A61F9/00 B65D1/09 B65D39/00 B65D41/58 B65D51/22 B65D51/24 B65D55/02

CPC: A61F9/0008 B65D2251/0015 B65D2251/0028 B65D2251/0056 B65D2251/0096 B65D2401/25 B65D39/0052 B65D41/58 B65D51/225 B65D51/227 B65D51/243 B65D51/22

US: 220/265 220/277



Family:

Publication number	Publication date	Application number	Application date
AU2014256079 AA	20151029	AU20140256079	20140215
AU2014256079 BB	20180315	AU20140256079	20140215
BR112015025942 A2	20170725	BR20151125942	20140215
CA2909818 AA	20151019	CA20142909818	20140215
CN105392710 A	20160309	CN201480029166	20140215
CN105392710 B	20170707	CN201480029166	20140215
DE102013007063 A1	20141023	DE201310007063	20130419
EP2986531 A1	20160224	EP20140705045	20140215
ID201703822 A	20170413	ID2015P0006658	20140215
IN03212KN2015 A	20160624	IN2015KN03212	20151001
JP2016519023 T2	20160630	JP20160508026T	20140215
JP6259072 B2	20180110	JP20160508026T	20140215
KR102123787 B1	20200618	KR20157032994	20140215
KR20150144790 A	20151228	KR20157032994	20140215
MX2015014603 A1	20160303	MX20150014603	20140215
RU2015146960 A	20170524	RU20150146960	20140215
RU2015146960 A3	20180126	RU20150146960	20140215
RU2698222 C2	20190823	RU20150146960	20140215
SG11201508513V A1	20151127	SG20151108513	20140215
US10370163 BB	20190806	US20140783542	20140215
US2016060006 AA	20160303	US20140783542	20140215
WO14169979 A1	20141023	WO2014EP00421	20140215

Priority:

DE201310007063 20130419 WO2014EP00421 20140215 RU20150146960 20140215

Probable Assignee: KOCHER PLASTIK MASCHINENBAU GMBH

Assignee(s): (std): KOCHER PLASTIK MASCHB GMBH ; KOCHER PLASTIK MASCHINENBAU GMBH ; KOKHER PLASTIK MASH GMBKH

Assignee(s): GESER JOHANNES ; KOKHER PLASTIK MASHINENBAU GMBKH ; SPALLEK MICHAEL

Inventor(s): (std): GESER JOHANNES ; GEZER IOGANNES ; JOHANNES GESER ; MICHAEL SPALLEK ; SHPALLEK MIKHEL ; SPALLEK MICHAEL

Agent(s): AOKI ATSUSHI; ARS PATENT MV KHMARA; BARTELS AND PARTNER; BARTELS MARTIN ERICH ARTHUR; DR BELINDA ROSALINA SH LLM; FB RICE; FB RICE PTY LTD; MARKS AND CLERK; SHIMADA TETSURO; WENDEROTH LIND AND PONACK LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC 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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2014256079 AA	20151029	LSPB	+	published / reissued	
AU2014256079 BB	20180315	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2014256079 BB	20180712	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2014256079 BB	20340215	PEXP		Calculated Patent Term Expiry	
BR112015025942 A2	20181113		B06F	OBJECTIONS, DOCUMENTS AND/OR TRANSLATIONS NEEDED AFTER AN EXAMINATION REQUEST ACCORDING ART. 34 INDUSTRIAL PROPERTY LAW	
BR112015025942 A2	20191126		B06U	PRELIMINARY REQUIREMENT: REQUESTS WITH SEARCHES PERFORMED BY OTHER PATENT OFFICES: SUSPENSION OF THE PATENT APPLICATION PROCEDURE	
CA2909818 AA	20151019	LSPB	+	published / reissued	
CN105392710 A	20160309	LSPB	+	published / reissued	
CN105392710 A	20160309	LSPB	+C06	PUBLICATION	
CN105392710 A	20160406		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN105392710 A	20170707	LSGT	+GR01	PATENT GRANT	
CN105392710 B	20170707	LSGT	+	granted / extensions (spc, cpc, pte)	
CN105392710 B	20340215	PEXP		Calculated Patent Term Expiry	
DE102013007063 A1	20130419	LSES	+R012	REQUEST FOR EXAMINATION VALIDLY FILED	
DE102013007063 A1	20141023	LSPB	+	published / reissued	
EP2986531 A1	20160224	LSPB	+	published / reissued	
EP2986531 A1	20160224	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20150908
EP2986531 A1	20160224		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP2986531 A1	20160224		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP2986531 A1	20160727		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP2986531 A1	20180124	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20171221
ID201703822 A	20170413	LSPB	+	published /	

				reissued	
IN03212KN2015 A	20160624	LSPB	+	published / reissued	
JP2016519023 T2	20160630	LSPB	+	published / reissued	
JP2016519023 T2	20160831	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20160831 Text: JAPANESE INTERMEDIATE CODE: A523
JP2016519023 T2	20160831	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20160831 Text: JAPANESE INTERMEDIATE CODE: A621
JP2016519023 T2	20170615		A977	REPORT ON RETRIEVAL	Effective date: 20170615 Text: JAPANESE INTERMEDIATE CODE: A971007
JP2016519023 T2	20170627	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Text: JAPANESE INTERMEDIATE CODE: A131 Effective date: 20170627
JP2016519023 T2	20170907	LSRE	A521	WRITTEN AMENDMENT	Text: JAPANESE INTERMEDIATE CODE: A523 Effective date: 20170907
JP2016519023 T2	20171031	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2016519023 T2	20171107	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	Text: JAPANESE INTERMEDIATE CODE: A01 Effective date: 20171107
JP2016519023 T2	20171214	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	Text: JAPANESE INTERMEDIATE CODE: A61 Effective date: 20171207
JP6259072 B2	20171109	LSGT	+A01	特許査定書	
JP6259072 B2	20171212	LSFE	R100	特許料納付書	
JP6259072 B2	20171215	LSGT	+R150	特許証	
JP6259072 B2	20180110	LSGT	+	granted / extensions (spc, cpc, pte)	
JP6259072 B2	20340215	PEXP		Calculated Patent Term Expiry	
KR102123787 B1	20200618	LSGT	+	granted / extensions (spc, cpc, pte)	
KR102123787 B1	20340215	PEXP		Calculated Patent Term Expiry	
KR20150144790 A	20151228	LSPB	+	published / reissued	
KR20150144790 A	20181001	LSES	A201	REQUEST FOR EXAMINATION	
KR20150144790 A	20191007	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20150144790 A	20200423	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
MX2015014603 A1	20160303	LSPB	+	published / reissued	
RU2015146960 A	20170524	LSPB	+	published / reissued	
RU2698222 C2	20190823	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2698222 C2	20340215	PEXP		Calculated Patent Term Expiry	
SG11201508513V A1	20151127	LSPB	+	published / reissued	
US10370163 BB	20190806	LSGT	+	granted / extensions (spc, cpc, pte)	
US10370163 BB	20351206	PEXP		Calculated Patent Term Expiry (PTA 659 days)	
US2016060006 AA	20151009	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:SPALLEK, MICHAEL;GESER, JOHANNES;REEL/FRAME:036765/0511

					Owner: KOCHER-PLASTIK MASCHINENBAU GMBH, GERMANY PartyType: owner Effective date: 20150923
US2016060006 AA	20151203		APP1	Application Dispatched from Preexam, Not Yet Docketed	
US2016060006 AA	20160303	LSPB	+	published / reissued	
US2016060006 AA	20160328		RFE1	Docketed New Case - Ready for Examination	
US2016060006 AA	20180105	LSES	NFA2	Non Final Action Counted, Not Yet Mailed	
US2016060006 AA	20180110	LSES	NFA1	Non Final Action Mailed	
US2016060006 AA	20181207		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2016060006 AA	20190312		FRM1	Final Rejection Mailed	
US2016060006 AA	20190312		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: FINAL REJECTION MAILED
US2016060006 AA	20190417		RSP1	Response after Final Action Forwarded to Examiner	
US2016060006 AA	20190417		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: RESPONSE AFTER FINAL ACTION FORWARDED TO EXAMINER
US2016060006 AA	20190425	LSES	ADV1	Advisory Action Mailed	
US2016060006 AA	20190425		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: ADVISORY ACTION MAILED
US2016060006 AA	20190524	LSES	NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2016060006 AA	20190524		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NOTICE OF ALLOWANCE MAILED -- APPLICATION RECEIVED IN OFFICE OF PUBLICATIONS
US2016060006 AA	20190618	LSFE	PPR1	Publications -- Issue Fee Payment Received	
US2016060006 AA	20190618		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: PUBLICATIONS -- ISSUE FEE PAYMENT RECEIVED
US2016060006 AA	20190624	LSFE	PPV1	Publications -- Issue Fee Payment Verified	
US2016060006 AA	20190624		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: PUBLICATIONS -- ISSUE FEE PAYMENT VERIFIED
US2016060006 AA	20190717	LSGT	PAT1	Patented Case	
US2016060006 AA	20190717	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
WO14169979 A1	20140215	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 201480029166.4 Country of Ref document: CN
WO14169979 A1	20141023	LSPB	+	published / reissued	

WO14169979 A1	20141210		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 14705045 Country of Ref document: EP
WO14169979 A1	20150908	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2014705045 Country of Ref document: EP
WO14169979 A1	20151009	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 14783542 Country of Ref document: US
WO14169979 A1	20151016	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: IDP00201506658 Country of Ref document: ID
WO14169979 A1	20151016	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/A/2015/014603 Country of Ref document: MX
WO14169979 A1	20151019	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2909818 Country of Ref document: CA
WO14169979 A1	20151019	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2016508026 Country of Ref document: JP
WO14169979 A1	20151019	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO14169979 A1	20151029	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 20140215 Kind code of Ref document: A Ref document number: 2014256079 Country of Ref document: AU
WO14169979 A1	20151118	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 20157032994 Country of Ref document: KR
WO14169979 A1	20151119	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2015146960 Country of Ref document: RU
WO14169979 A1	20151208		REG	REFERENCE TO NATIONAL CODE	Ref country code: BR Ref document number: 112015025942 Ref legal event code: B01A Country of Ref document: BR
WO14169979 A1	20170725	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Effective date: 20151013 Kind code of Ref document: A2 Ref document number: 112015025942 Country of Ref document: BR

48) Family number: 61845827 (GB2546244 A1)

Title: CHILD RESISTANT **CLOSURE**

Abstract: A child resistant **closure** comprises an inner portion (9, fig 3) for fitting to a **container** and an outer portion 1 into which the inner portion (9, fig 3) fits, the inner and outer portions (9, fig 3) 1 each having a tubular side wall and an end wall. The outer portion 1 operably engages with the inner portion for turning the latter in a closing direction, but is able to turn in an **opening** direction without operably engaging with the inner portion (9, fig 3). A passageway 23 extends into the **closure** between the tubular side walls 10, 2 of the inner and outer portions to an end region of the **closure** disposed between the end walls 11, 3 of the inner and outer portions. An Aperture (13, fig 4) are formed in the end wall 11 of the inner portion. Preferably, a breathable sealing disc 25 is disposed inside the inner portion (9, fig 3) against the end 11 wall thereof. The disc 25 allows gases to pass into and/or out of the **container** through the aperture (13, fig 4), yet prevents liquids from passing into and/or out of the **container** through the apertures (13, fig 4).

Classifications:
International (IPC 8-9): B65D47/32 B65D50/04
CPC: B65D2205/00 B65D2215/02 B65D2401/15 B65D47/32 B65D50/041 B65D51/1616 B65D53/04

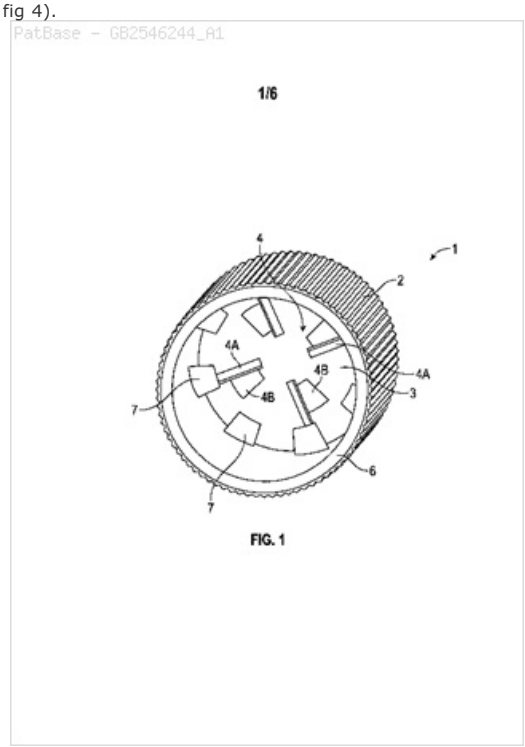


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
GB201523059 A0	20160210	GB20150023059	20151229
GB2546244 A1	20170719	GB20150023059	20151229
GB2546244 B2	20180530	GB20150023059	20151229

Priority:
GB20150023059 20151229

Probable Assignee: ORIGIN PHARMACEUTICAL PACKAGING LTD

Assignee(s): (std): ORIGIN PACKAGING LTD ; ORIGIN PHARMACEUTICAL PACKAGING LTD

Inventor(s): (std): JONATHAN MARK LANT

Legal status (INPADOC)

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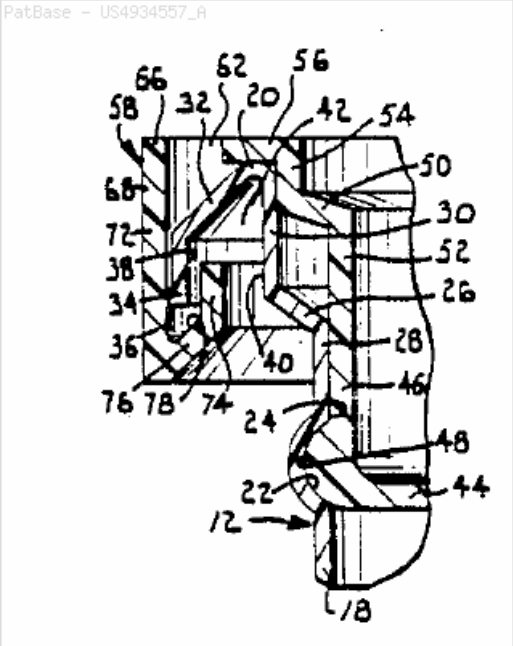
Patent	Date recorded	Event group	Code	Event	Details
GB2546244 A1	20170719	LSPB	+	published / reissued	
GB2546244 B2	20180530	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2546244 B2	20351229	PEXP		Calculated Patent Term Expiry	

49) Family number: 3483328 (US4934557 A)

Title: **TAMPER EVIDENT** **CLOSURE** AND **CONTAINER**

Abstract: A **tamper evident** food package comprising a **container** and a removable **closure**. A plurality of **locking** members are provided on the **closure** and engage a downturned lip of the **container** to prevent removal of the **closure** while in place. The **locking** members form part of a detachable tear strip which may be detached to permit removal of the **closure**. Detachment of the tear strip provides visual indication of unauthorized **opening** of the food package.

Classifications:
International (IPC 8-9): B65D17/28 B65D17/40 B65D43/02
International (IPC 1-7): B65D17/40
CPC: B65D2401/15 B65D2543/00092 B65D2543/00296 B65D2543/00509 B65D2543/00537 B65D2543/00546 B65D2543/00555 B65D2543/0062 B65D2543/00657 B65D2543/00685 B65D2543/0074 B65D2543/00796 B65D43/0252
US: 220/276 220/307 220/787 220/790



Family:

Publication number	Publication date	Application number	Application date
US4934557 A	19900619	US19880279930	19881205

Priority:
US19880279930 19881205

Probable Assignee: SEALRIGHT CO INC A CORP OF DE
Assignee(s): (std): SEALRIGHT CO INC
Assignee(s): SEALRIGHT CO INC A CORP OF DE ; SEALRIGHT COMPANY INC
Inventor(s): (std): SMITH ERNEST L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4934557 A	19881205	LSAS	AS	ASSIGNMENT	Effective date: 19881130 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST.;ASSIGNOR:SMITH, ERNEST L.;REEL/FRAME:004988/0196 Owner: SEALRIGHT CO., INC., 8330 WARD PARKWAY, SUITE 500, PartyType: owner
US4934557 A	19881205	LSAS	AS	ASSIGNMENT	Effective date: 19881130 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:SMITH, ERNEST L.;REEL/FRAME:004988/0196 Owner: SEALRIGHT CO., INC., A CORP. OF DE., MISSOURI PartyType: owner
US4934557 A	19900619	LSGT	+	granted / extensions (spc, cpc, pte)	
US4934557 A	19930628	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US4934557 A	19971215	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US4934557 A	20020109		REMI	MAINTENANCE FEE REMINDER MAILED	
US4934557 A	20020619	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4934557 A	20020716	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees	

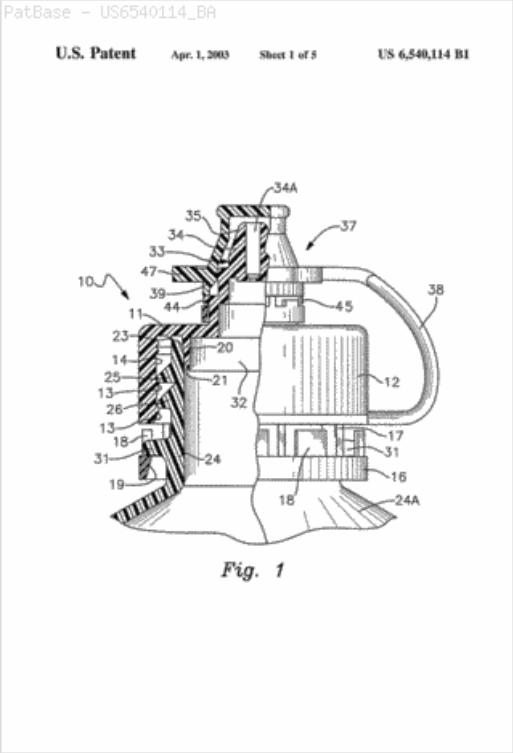
				Under 37 CFR 1.362	
US4934557 A	20020716	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US4934557 A	20020813	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20020619
US4934557 A	20081205	PEXP		Calculated Patent Term Expiry	

50) Family number: 28434399 (US6540114 BA)

Title: DUAL **TAMPER EVIDENT** DISPENSING **CLOSURE**

Abstract: A dual **tamper evident** **container** **closure** for a dispensing **container**, the cap portion being of a type intended to be held permanently captive on the **container** having a nozzle dispensing **opening**, multiple sealing flanges and dual **locking** engagement beads to retain the cap portion on the **container**. The **closure** portion is registerable over the dispensing **opening** and retained to the cap portion by a flexible web. Both the cap portion and the **closure** portion have depending interconnected frangible bands that engage and are retained on the respective **container** and nozzle to indicate prior **opening** or tampering with the **container** **closure**.

Classifications:
International (IPC 8-9): B65D41/32 B65D41/48 B65D47/06 B65D47/10 B65D47/12 B65D47/14
International (IPC 1-7): B67D5/32
CPC: B65D41/485 B65D47/10 B65D47/147
US: 215/252 215/258 222/153.02 222/153.06 222/543



Family:

Publication number	Publication date	Application number	Application date
US6540114 BA	20030401	US20010879620	20010613

Priority:
US20010879620 20010613

Probable Assignee: WEST PENN PLASTIC INC
Assignee(s): (std): WEST PENN PLASTIC INC
Inventor(s): (std): CLAUSE MARK ; MARINO MICHAEL ; POPOVICH JOHN
Inventor(s): JOHN POPOVICH ; MARK CLAUSE ; MICHAEL MARINO
Agent(s): HARPMAN AND HARPMAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US6540114 BA	20010827	LSAS	AS	ASSIGNMENT	Effective date: 20010817 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:POPOVICH, JOHN;CLAUSE, MARK;MARINO, MICHAEL;REEL/FRAME:012120/0483 Owner: WEST PENN PLASTIC, INC., PENNSYLVANIA PartyType: owner
US6540114 BA	20030401	LSGT	+	granted / extensions (spc, cpc, pte)	
US6540114 BA	20061019		REMI	MAINTENANCE FEE REMINDER MAILED	
US6540114 BA	20070401	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6540114 BA	20070502	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	

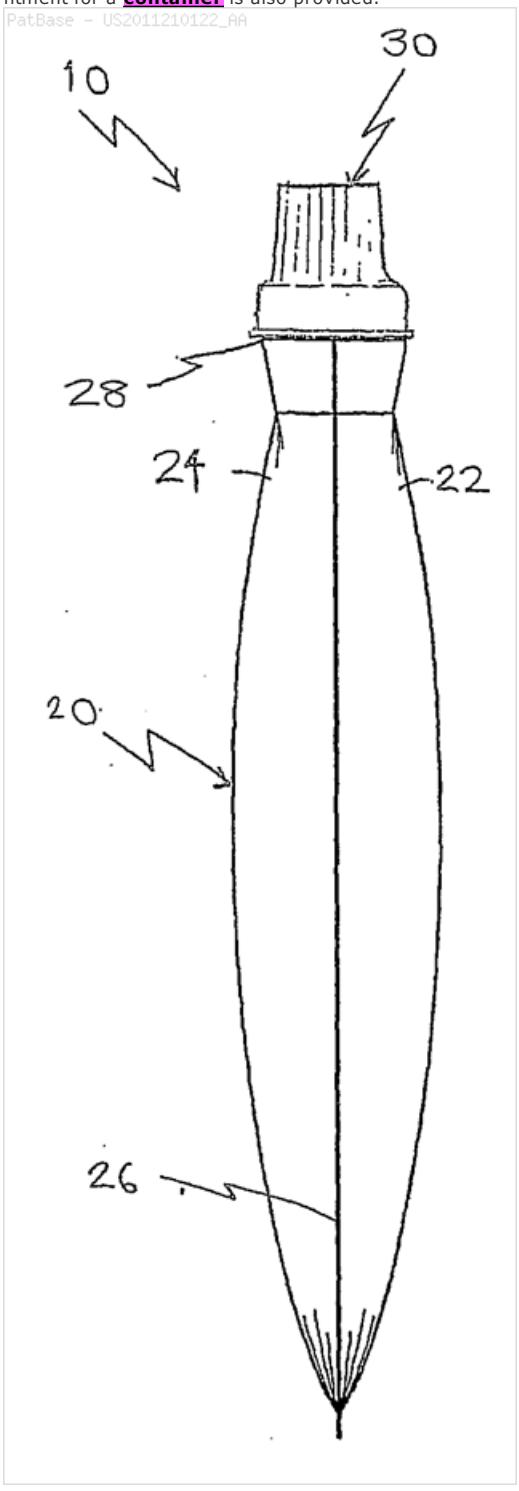
US6540114 BA	20070502	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6540114 BA	20070529	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20070401
US6540114 BA	20210613	PEXP		Calculated Patent Term Expiry	

51) Family number: 42511454 (US2011210122 AA)

Title: METHOD FOR FORMING A **CLOSURE** AND A PRODUCT THEREOF

Abstract: A method of forming a **tamper-evident** **closure** for a **container** or a **tamper evident** fitment is provided. The method comprises the steps of: providing a base; providing a **closure** with a top plate and a side skirt; applying the **closure** to the base; and, then after the step of applying, forming a plurality of frangible bridges by slitting the skirt to define a **tamper-evident** band at the free end of the side skirt. A dispensing fitment for a **container** is also provided.

Classifications:
International (IPC 8-9): B26D3/08 B65D17/42 B65D41/34 B65D47/20 B65D75/52 B65D75/58
CPC: B65D41/3447 B65D75/5883 Y10T83/0341
US: 220/277 83/880 83/880S



Family:

Publication number	Publication date	Application number	Application date
BRPI0912056 A2	20160105	BR2009PI12056	20090417
EP2331426 A1	20110615	EP20090785907	20090417
EP2331426 B1	20180620	EP20090785907	20090417
ES2687773 T3	20181029	ES20090785907T	20090417
GB200816643 A0	20081022	GB20080016643	20080911
MX2011001998 A1	20110414	MX20110001998	20090417
PL2331426 T3	20190228	PL20090785907T	20090417
RU2011112278 A	20121020	RU20110112278	20090417
RU2494026 C2	20130927	RU20110112278	20090417
US2011210122 AA	20110901	US20110045822	20110311
WO10029394 A1	20100318	WO2009IB05581	20090417

Priority:

GB20080016643 20080911 WO2009IB05581 20090417 EP20090785907 20090417

Probable Assignee: OBRIST CLOSURES SWITZERLAND GMBH

Assignee(s): (std): BARDET PHILIPPE ; BENOIT GONIN CLAUDE ; OBRIST CLOSURES SWITZERLAND ; OBRIST CLOSURES SWITZERLAND GMBH ; OBRIST KLOUZHERZ SVITZERLAND GMBKH

Inventor(s): (std): BARDE FILIPP ; BARDET PHILIPPE ; BENOIT GONIN CLAUDE ; BENUA GONEHN KLOD ; HINDLE DEREK JOHN

Inventor(s): CLAUDE BENOIT GONIN ; PHILIPPE BARDET

Agent(s): CARPINTERO MARIO; GREENWOOD MATTHEW DAVID; GREENWOOD MATTHEW ET AL

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
BRPI0912056 A2	20160621	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	Text: REFERENTE AS 6A E 7A ANUIDADES.
BRPI0912056 A2	20161011	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	Text: EM VIRTUDE DO ARQUIVAMENTO PUBLICADO NA RPI 2372 DE 21-06-2016 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDO O ARQUIVAMENTO DO PEDIDO DE PATENTE, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
EP2331426 A1	20110615	LSPB	+	published / reissued	
EP2331426 A1	20110615	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20110404
EP2331426 A1	20110615		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT 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 SE SI SK TR
EP2331426 A1	20110615		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL BA RS
EP2331426 A1	20111221		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP2331426 A1	20151216	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20151117
EP2331426 A1	20171220	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20171121
EP2331426 B1	20180620	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2331426 B1	20180620		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT 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 SE SI SK TR
EP2331426 B1	20180620	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP2331426 B1	20180711	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP2331426 B1	20180715	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 1010425 Ref legal event code: REF Kind code of Ref document: T Effective date: 20180715 Ref country code: AT Country of Ref document: AT
EP2331426 B1	20180719	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: R096 Ref document number: 602009052876 Ref country code: DE Country of Ref document: DE
EP2331426 B1	20181024		REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: MP Ref country code: NL Effective date: 20180620
EP2331426 B1	20181029	LSGT	REG	REFERENCE TO A	Kind code of Ref document: T3

				NATIONAL CODE	Ref legal event code: FG2A Effective date: 20181029 Ref country code: ES Ref document number: 2687773 Country of Ref document: ES
EP2331426 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180620 Country of Ref document: FI
EP2331426 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180920 Country of Ref document: BG
EP2331426 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180920 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP2331426 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180620 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP2331426 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180620 Country of Ref document: LT
EP2331426 B1	20181112	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: LT Ref legal event code: MG4D
EP2331426 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180620 Country of Ref document: HR
EP2331426 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180921 Country of Ref document: GR
EP2331426 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180620 Country of Ref document: LV
EP2331426 B1	20181215	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20180620 Kind code of Ref document: T Ref country code: AT Ref document number: 1010425 Ref legal event code: MK05 Country of Ref document: AT
EP2331426 B1	20181231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180620 Country of Ref document: NL
EP2331426 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180620 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2331426 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180620 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP2331426 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION	Lapsed date: 20181020 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE

				FROM NATIONAL OFFICE TO EPO]	PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP2331426 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180620 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP2331426 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180620 Country of Ref document: SK
EP2331426 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180620 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2331426 B1	20190321	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 602009052876 Ref country code: DE Ref legal event code: R097 Country of Ref document: DE
EP2331426 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20190327 Country of Ref document: PL
EP2331426 B1	20190529	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20190321
EP2331426 B1	20190531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180620 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP2331426 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20190418 Country of Ref document: DE
EP2331426 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190521 Year of fee payment: 11 Country of Ref document: ES
EP2331426 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190423 Year of fee payment: 11 Country of Ref document: IT
EP2331426 B1	20190830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180620 Country of Ref document: SI
EP2331426 B1	20190830	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190418 Year of fee payment: 11 Country of Ref document: FR
EP2331426 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20190418 Country of Ref document: GB
EP2331426 B1	20191129	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: PL Ref country code: CH
EP2331426 B1	20191219		REG	REFERENCE TO A NATIONAL CODE	Ref country code: BE Ref legal event code: MM Effective date: 20190430
EP2331426 B1	20191231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180620 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MC

EP2331426 B1	20191231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190417 Country of Ref document: LU
EP2331426 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190430 Country of Ref document: CH
EP2331426 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190430 Country of Ref document: LI
EP2331426 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190430 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP2331426 B1	20200331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180620 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR
EP2331426 B1	20200501	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190417 Country of Ref document: IE
EP2331426 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20200325 Country of Ref document: PL
EP2331426 B1	20200630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20181022 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2331426 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200420 Year of fee payment: 12 Country of Ref document: FR
EP2331426 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20200420 Country of Ref document: DE
EP2331426 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200629 Year of fee payment: 12 Country of Ref document: ES
EP2331426 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200423 Year of fee payment: 12 Country of Ref document: IT
EP2331426 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 12 Payment date: 20200427 Country of Ref document: GB
EP2331426 B1	20290417	PEXP		Calculated Patent Term Expiry	
ES2687773 T3	20181029	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2687773 T3	20290417	PEXP		Calculated Patent Term Expiry	

GB200816643 A0	20100505	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
MX2011001998 A1	20110414	LSPB	+	published / reissued	
MX2011001998 A1	20130821	LSRE	HH	CORRECTION OR CHANGE IN GENERAL	
MX2011001998 A1	20190628	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
PL2331426 T3	20190228	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2011112278 A	20121020	LSPB	+	published / reissued	
RU2494026 C2	20130927	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2494026 C2	20150220	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	Effective date: 20140418
RU2494026 C2	20290417	PEXP		Calculated Patent Term Expiry	
US2011210122 AA	20110512	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:BARDET, PHILIPPE;BENOIT-GONIN, CLAUDE;HINDLE, DEREK JOHN;SIGNING DATES FROM 20110428 TO 20110510;REEL/FRAME:026266/0871 PartyType: owner Owner: OBRIST CLOSURES SWITZERLAND GMBH, SWITZERLAND
US2011210122 AA	20110901	LSPB	+	published / reissued	
US2011210122 AA	20140903	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2011210122 AA	20140903		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
WO10029394 A1	20100318	LSPB	+	published / reissued	
WO10029394 A1	20100505		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Ref document number: 09785907 Kind code of Ref document: A1 Country of Ref document: EP
WO10029394 A1	20110112	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2009785907 Country of Ref document: EP
WO10029394 A1	20110222	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/A/2011/001998 Country of Ref document: MX
WO10029394 A1	20110312	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO10029394 A1	20110411	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2011112278 Country of Ref document: RU
WO10029394 A1	20160105	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Effective date: 20110208 Ref document number: PI0912056 Kind code of Ref document: A2 Country of Ref document: BR

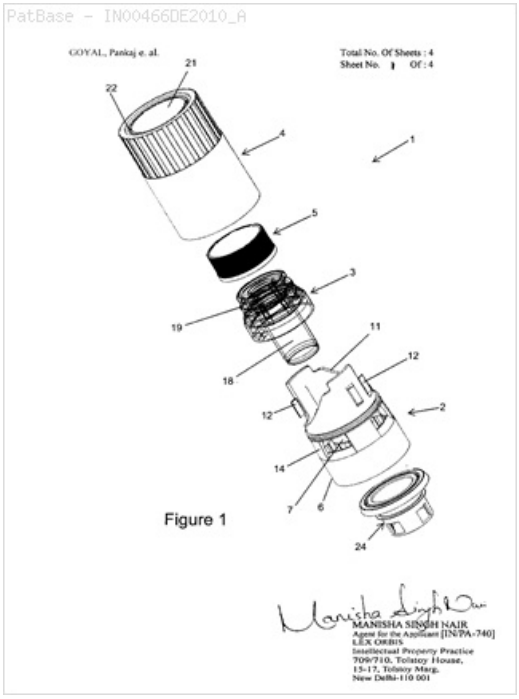
52) Family number: 47581902 (IN00466DE2010 A)

Title: A TAMPER PROOF **CLOSURE**

Abstract: Present invention discloses a **tamper evident** cap/**closure** 1 comprising a housing 2, a spout 3, an inner cap 5 and an outer cap 4. On applying an axial movement on the cap/**closure** 1, the spout 3 rotates and slides over the ramps 11 moving in an upward direction.. As the spout 3 slides over the ramps 11, the inner cap 5 crashes with the sealing means 21 that snaps free and the inner cap 5 emerges from the outer cap 4.

Classifications:

International (IPC 8-9): B65D47/02



Family:

Publication number	Publication date	Application number	Application date
IN00466DE2010 A	20101112	IN2010DE00466	20100303

Probable Assignee: GOYAL MANISH

Assignee(s): GOYAL MANISH ; GOYAL MANOJ ; GOYAL PANKAJ ; GOYAL PANKAJ GOYAL MANOJ GOYAL MANISH

Inventor(s): GOYAL MANISH ; GOYAL MANOJ ; GOYAL PANKAJ

Legal status (INPADOC)

View legal status timeline

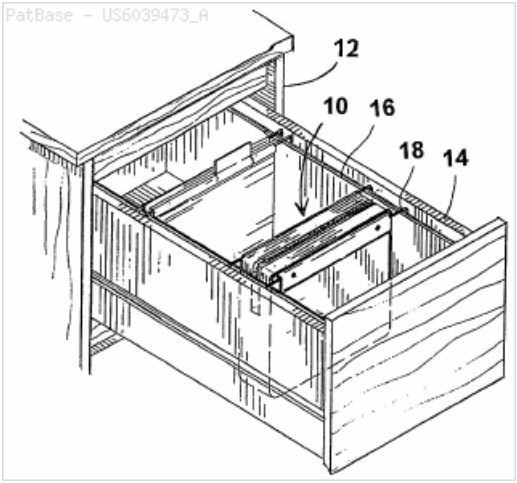
Patent	Date recorded	Event group	Code	Event	Details
IN00466DE2010 A	20101112	LSPB	+	published / reissued	

53) Family number: 12137851 (US6039473 A)

Title: **TAMPER EVIDENT** FILE HOLDER CONFIGURED FOR HANGING IN A FILE CABINET

Abstract: A **tamper evident** file holder especially suited for use in **containing** hanging files in a file cabinet drawer. The file holder is normally a full enclosure pouch configured for holding a plurality of files with one access portal such as a zippered **closure** or the like. In the preferred embodiment disclosed herein, the enclosure is made of a heavy fabric such as leather, vinyl, canvas, nylon or other tear resistant material. The zipper is **locked** in the closed position by a **locking device** comprising a disposable element in the form of a plug and stem which must be fractured to permit unlocking the **locking device** to **open** the zipper and gain access to the interior of the pouch. By coding each disposable element with a unique and indelible code, one can readily ascertain that the zipper has been unlocked to permit access to the files within the pouch. The pouch is preferably configured with hanger rods to permit hanging the file holder on a standard pair of file cabinet drawer rails. In the preferred embodiment, the hanger rods are affixed to the pouch by flaps which form elongated compartments on the opposing sides of the pouch.

Classifications:
International (IPC 8-9): B42F15/00 B42F15/04
International (IPC 1-7): B65D33/34
CPC: B42F15/04 Y10S190/901
US: 190/120 190/901 229/67.2 229/67.4 229/672 229/674 312/184 383/23 383/5



Family:

Publication number	Publication date	Application number	Application date
US6039473 A	20000321	US19990252316	19990218

Priority:
US19990252316 19990218

Probable Assignee: TEBCO PTY SMALL ENTITY LTD
Assignee(s): (std): BOND BRUCE
Assignee(s): TEBCO INT INC ; TEBCO PTY (SMALL ENTITY) LTD ; TEBCO PTY LTD ; TEBCO PTY SMALL ENTITY LTD
Inventor(s): (std): BOND BRUCE

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
US6039473 A	20000309	LSGT	PAT1	Patented Case	
US6039473 A	20000321	LSGT	+	granted / extensions (spc, cpc, pte)	
US6039473 A	20020813	LSAS	AS	ASSIGNMENT	Effective date: 19990222 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:BOND, BRUCE;REEL/FRAME:013179/0731 PartyType: owner Owner: TEBCO PTY LIMITED (SMALL ENTITY), HONG KONG
US6039473 A	20031008		REMI	MAINTENANCE FEE REMINDER MAILED	
US6039473 A	20040322	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6039473 A	20040518	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20040321
US6039473 A	20180123	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6039473 A	20180123	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6039473 A	20181114	LSAS	AS	ASSIGNMENT	OldParty: NUNC PRO TUNC ASSIGNMENT;ASSIGNOR:TEBCO PTY, LTD.;REEL/FRAME:047504/0838 Owner: TEBCO INTERNATIONAL, INC., PENNSYLVANIA

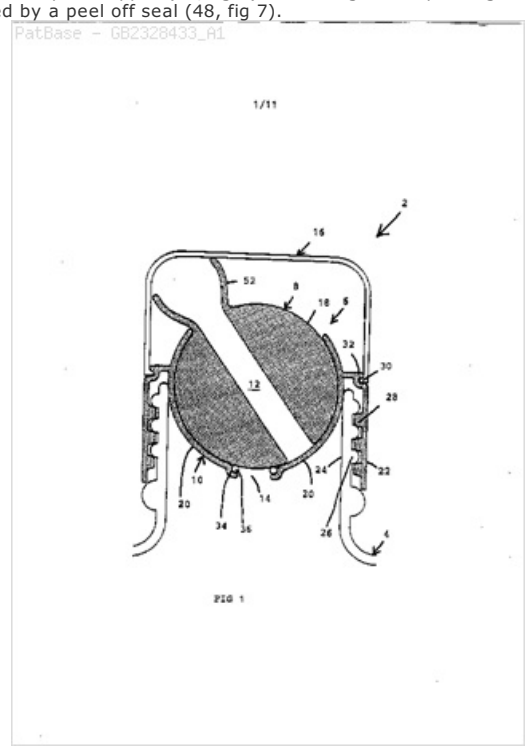
				PartyType: owner Effective date: 20070701
US6039473 A	20190218	PEXP	Calculated Patent Term Expiry	

54) Family number: 13550526 (GB2328433 A1)

Title: Rotary **closure** **device** with an outer cap

Abstract: A **container** 4 includes a rotary **closure** **device** 6 which has an obturator 8 with a first aperture 12, an obturator holder 10 with a second aperture 14, and a removable cap 16. When the cap is removed, the obturator is rotatable between a position in which the apertures are at least partially out of registry, and a position in which the apertures are in registry. When the cap is in position on the **container**, rotation of the obturator is prevented. The holder may be attached to the **container**, or may be integrally formed with the **container** neck. The obturator may have a dispensing spout 52 which may clip into a recess (56, fig 10) in the holder. The cap may have a dome shaped stopper (42, fig 6) for closing the dispensing spout, and may have fragrance-release apertures (46, fig 7), covered by a peel off seal (48, fig 7).

Classifications:
International (IPC 8-9): B65D47/04 B65D47/30
International (IPC 1-7): B65D47/30 B65D51/16
CPC: B65D47/305



Family:

Publication number	Publication date	Application number	Application date
GB9717957 A0	19971029	GB19970017957	19970822
GB9720153 A0	19971126	GB19970020153	19970922
GB2328433 A1	19990224	GB19980018314	19980821
GB9818314 A0	19981014	GB19980018314	19980821

Priority:

GB19970017957 19970822 GB19970020153 19970922

Probable Assignee: CHOWN PETER A C
Assignee(s): (std): CHOWN PETER A C
Assignee(s): PETER ARTHUR CHARLES CHOWN
Inventor(s): (std): CHOWN PETER ARTHUR CHARLES
Inventor(s): PETER ARTHUR CHARLES CHOWN

Legal status (INPADOC)

View legal status timeline

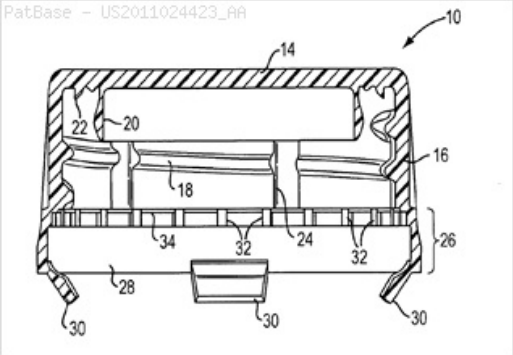
Patent	Date recorded	Event group	Code	Event	Details
GB2328433 A1	19990224	LSPB	+	published / reissued	
GB2328433 A1	20010829	LSWD	-WAP	APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)	

55) Family number: 44129158 (US2011024423 AA)

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 B65D41/00 B65D41/34 B65D41/36 B65D41/38 B65D41/62
International (IPC 1-7): B65D39/00
CPC: B65D41/3428
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
EP2268554 B1	20180606	EP20090766980	20090430
EP3388358 A1	20181017	EP20180175996	20090430
ES2682462 T3	20180920	ES20090766980T	20090430
HU040345 T2	20190328	HU20090766980T	20090430
IN06911CN2010 A	20110708	IN2010CN06911	20101027
IN201848025858 A	20180720	IN201848025858	20180711
JP2011519330 T2	20110707	JP20110507444T	20090430
MX2010011796 A1	20101130	MX20100011796	20090430
RU2010148807 A	20120610	RU20100148807	20090430
RU2507137 C2	20140220	RU20100148807	20090430
USRE47156 E	20181211	US20090241929	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 WO2009US02632 20090430 EP20090766980 20090430
IN2010CN06911 20090430 US20090934916 20090430 US20090241929 20090430
US20160241929 20160819

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 ; CLOSURE SYSTEMS INTERNTIONAL INC ; ERSPAMER JOHN ; GEVERS DAVE ; KLOUZHER SISTEMZ INTERNEHSHNL INK ; MCBRIDE STEVE ; SMEYAK LAWRENCE M

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Agent(s): ALGEMEEN OCTROOI EN MERKENBUREAU; ALGEMEEN OCTROOI EN MERKENBUREAU BV; FB RICE; FB RICE PTY LTD; GEIMER D STEPHEN; ISERN JORGE; NIXON PEABODY LLP; WOOD PHILLIPS KATZ CLARK AND MORTIMER

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	20181122	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
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	LSES	+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 A	20110413	LSPB	PB01	公开	Text: 公开 (Disclosure)
CN102015472 A	20110622		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN102015472 A	20110622		SE01	实质审查请求的生效	Text: 实质审查的生效 (Force of substantive review)
CN102015472 B	20130828	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102015472 B	20130828	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN102015472 B	20130828	LSGT	+GR01	授权	Text: 授权 (Authorization)
CN102015472 B	20190416	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
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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	
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EP2268554 A2	20110105	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20100928
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EP2268554 A2	20110105		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL BA RS
EP2268554 A2	20110420		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	PartyType: inventor Inventor: MCBRIDE, STEVE
EP2268554 A2	20110420		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: ERSPAMER, JOHN PartyType: inventor
EP2268554 A2	20110420		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: GEVERS, DAVE PartyType: inventor
EP2268554 A2	20110420		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	PartyType: inventor Inventor: SMEYAK, LARRY
EP2268554 A2	20110803		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP2268554 A4	20111207	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	Effective date: 20111108
EP2268554 A4	20111207		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 39/00 20060101AFI20111103BHEP
EP2268554 A4	20111207		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationSymbol: B65D 41/34 20060101ALN20111103BHEP ClassificationScheme: IPC
EP2268554 A4	20150304	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20150202
EP2268554 A4	20171213		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 39/00 20060101AFI20171106BHEP
EP2268554 A4	20171213		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationSymbol: B65D 41/34 20060101ALN20171106BHEP ClassificationScheme: IPC
EP2268554 A4	20171227		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 39/00 20060101AFI20171123BHEP
EP2268554 A4	20171227		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 41/34 20060101ALN20171123BHEP
EP2268554 A4	20180103	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20171205
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EP2268554 B1	20180606	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2268554 B1	20180606		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT 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 SE SI SK TR
EP2268554 B1	20180606	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Ref country code: GB
EP2268554 B1	20180615	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP2268554 B1	20180615	LSNP	REG	REFERENCE TO A NATIONAL	Kind code of Ref document: T Ref legal event code: REF

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EP2268554 B1	20180627	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Ref country code: IE
EP2268554 B1	20180705	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref legal event code: R096 Ref document number: 602009052675 Country of Ref document: DE
EP2268554 B1	20180711		RIC2	INFORMATION PROVIDED ON IPC CODE ASSIGNED AFTER GRANT	ClassificationSymbol: B65D 39/00 20060101AFI20180607BHEP ClassificationScheme: IPC
EP2268554 B1	20180711		RIC2	INFORMATION PROVIDED ON IPC CODE ASSIGNED AFTER GRANT	ClassificationSymbol: B65D 41/34 20060101ALI20180607BHEP ClassificationScheme: IPC
EP2268554 B1	20180920	LSGT	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20180920 Ref country code: ES Ref legal event code: FG2A Ref document number: 2682462 Kind code of Ref document: T3 Country of Ref document: ES
EP2268554 B1	20181010		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20180606 Ref country code: NL Ref legal event code: MP
EP2268554 B1	20181025	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: MG4D Ref country code: LT
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EP2268554 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180606 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2268554 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180906 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
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EP2268554 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180606 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP2268554 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION	Lapsed date: 20180606 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

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EP2268554 B1	20181215	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 1005834 Kind code of Ref document: T Ref legal event code: MK05 Ref country code: AT Effective date: 20180606 Country of Ref document: AT
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EP2268554 B1	20190328	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HU Ref document number: E040345 Ref legal event code: AG4A Country of Ref document: HU
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EP2268554 B1	20190531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20180606 Country of Ref document: SI
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EP2268554 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 11 Payment date: 20190429 Country of Ref document: GB
EP2268554 B1	20191101	LSDW	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602009052675 Ref legal event code: R119 Country of Ref document: DE
EP2268554 B1	20191129	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: PL Ref country code: CH
EP2268554 B1	20191219		REG	REFERENCE TO A NATIONAL CODE	Ref country code: BE Effective date: 20190430 Ref legal event code: MM
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EP2268554 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190430 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
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				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	OF NON-PAYMENT OF DUE FEES Lapsed date: 20190501 Country of Ref document: HU
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EP2268554 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200424 Year of fee payment: 12 Country of Ref document: IT
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EP2268554 B1	20290430	PEXP		Calculated Patent Term Expiry	
EP3388358 A1	20181017	LSPB	+	published / reissued	
EP3388358 A1	20181017		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 2268554 Country of Ref document: EP
EP3388358 A1	20181017		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT 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 SE SI SK TR

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ES2682462 T3	20290430	PEXP		Calculated Patent Term Expiry	
HU040345 T2	20190328	LSPB	+	published / reissued	
IN06911CN2010 A	20110708	LSPB	+	published / reissued	
IN201848025858 A	20180720	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	20130425		A977	REPORT ON RETRIEVAL	Text: JAPANESE INTERMEDIATE CODE: A971007 Effective date: 20130425
JP2011519330 T2	20130514	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20130514 Text: JAPANESE INTERMEDIATE CODE: A131
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	Effective date: 20140305 Text: JAPANESE INTERMEDIATE CODE: A131
JP2011519330 T2	20140605		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Text: JAPANESE INTERMEDIATE CODE: A601 Effective date: 20140604
JP2011519330 T2	20140612		A602	WRITTEN PERMISSION OF EXTENSION OF TIME	Text: JAPANESE INTERMEDIATE CODE: A602 Effective date: 20140611
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	20190305	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	Effective date: 20180501
RU2507137 C2	20290430	PEXP		Calculated Patent Term Expiry	
US2011024423 AA	20110203	LSPB	+	published / reissued	
US2011024423 AA	20140702	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:ERSPAMER, JOHN;MCBRIDE, STEVE;GEVERS, DAVE;AND OTHERS;SIGNING DATES FROM 20140625 TO 20140630;REEL/FRAME:033233/0051 Owner: CLOSURE SYSTEMS INTERNATIONAL INC., INDIANA
US2011024423 AA	20140730	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US8807360 BB	20140730	LSGT	PAT1	Patented Case	

US8807360 BB	20140819	LSGT	+	granted / extensions (spc, cpc, pte)	
US8807360 BB	20160927		RF	REISSUE APPLICATION FILED	Effective date: 20160819
US8807360 BB	20171109	LSAS	AS	ASSIGNMENT	Effective date: 20170817 OldParty: PATENT SECURITY AGREEMENT;ASSIGNORS:CLOSURE SYSTEMS INTERNATIONAL INC.;EVERGREEN PACKAGING INC.;GRAHAM PACKAGING COMPANY, L.P.;AND OTHERS;REEL/FRAME:044722/0528 Owner: THE BANK OF NEW YORK MELLON, NEW YORK PartyType: owner
US8807360 BB	20180212	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 4
US8807360 BB	20191220	LSAS	AS	ASSIGNMENT	OldParty: NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS;ASSIGNOR:CLOSURE SYSTEMS INTERNATIONAL INC.;REEL/FRAME:051396/0284 PartyType: owner Effective date: 20191220 Owner: CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, AS COLLAT
US8807360 BB	20191220	LSAS	AS	ASSIGNMENT	OldParty: TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENTS;ASSIGNOR:THE BANK OF NEW YORK MELLON, AS COLLATERAL AGENT;REEL/FRAME:051396/0463 PartyType: owner Owner: CLOSURE SYSTEMS INTERNATIONAL INC., TENNESSEE Effective date: 20191220
US8807360 BB	20191220	LSAS	AS	ASSIGNMENT	Effective date: 20191220 PartyType: owner OldParty: NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS;ASSIGNOR:CLOSURE SYSTEMS INTERNATIONAL INC.;REEL/FRAME:051396/0284 Owner: CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, AS COLLATERAL AGENT, NEW YORK
US8807360 BB	20191223	LSAS	AS	ASSIGNMENT	OldParty: TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENTS;ASSIGNOR:THE BANK OF NEW YORK MELLON;REEL/FRAME:051412/0943 Effective date: 20191220 PartyType: owner Owner: CLOSURE SYSTEMS INTERNATIONAL INC., ILLINOIS
US8807360 BB	20300123	PEXP		Calculated Patent Term Expiry (PTA 268 days)	
USRE47156 E	20180329	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: PETITION RELATED TO MAINTENANCE FEES GRANTED (ORIGINAL EVENT CODE: PTGR); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
USRE47156 E	20180330	LSAS	AS	ASSIGNMENT	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:045396/0345 PartyType: owner
USRE47156 E	20181120	LSGT	PAT1	Patented Case	
USRE47156 E	20181120	LSGT	PAT1	Patented Case	
USRE47156 E	20191220	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS;ASSIGNOR:CLOSURE SYSTEMS INTERNATIONAL INC.;REEL/FRAME:051396/0284 Owner: CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH, AS COLLAT Effective date: 20191220
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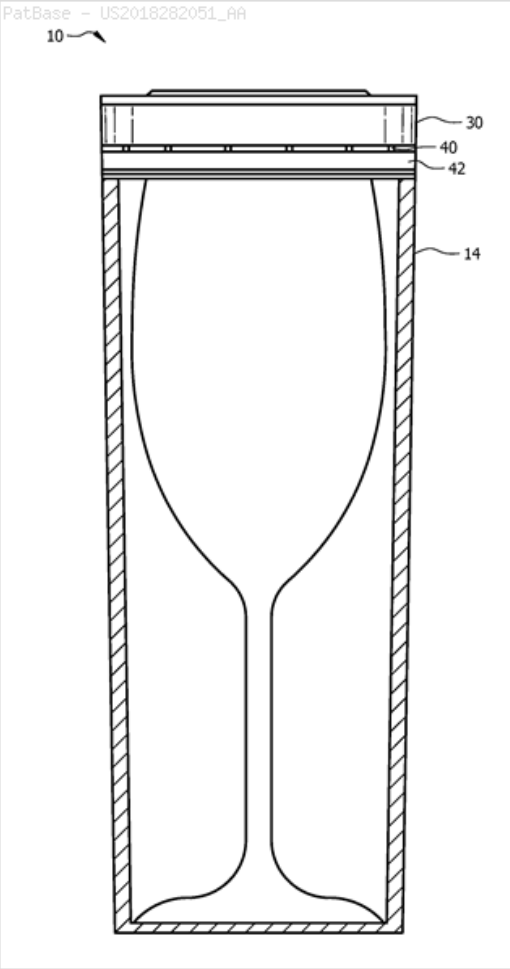
					CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS;ASSIGNOR:CLOSURE SYSTEMS INTERNATIONAL INC.;REEL/FRAME:051396/0284 Effective date: 20191220
WO09154666 A2	20090430	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200980115609.0 Country of Ref document: CN
WO09154666 A2	20091223	LSPB	+	published / reissued	
WO09154666 A2	20100217		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A2 Ref document number: 09766980 Country of Ref document: EP
WO09154666 A3	20100922	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2009260868 Country of Ref document: AU
WO09154666 A3	20100927	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 12934916 Country of Ref document: US
WO09154666 A3	20100928	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2009766980 Country of Ref document: EP
WO09154666 A3	20101012	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2721234 Country of Ref document: CA
WO09154666 A3	20101021	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2009260868 Kind code of Ref document: A Date of Ref document: 20090430 Country of Ref document: AU
WO09154666 A3	20101027	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 6911/CHENP/2010 Country of Ref document: IN
WO09154666 A3	20101027	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/A/2010/011796 Country of Ref document: MX
WO09154666 A3	20101029	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2011507444 Country of Ref document: JP
WO09154666 A3	20101102	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO09154666 A3	20101130	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2010148807 Country of Ref document: RU
WO09154666 A3	20170620	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Effective date: 20101028 Kind code of Ref document: A2 Ref document number: PI0911576 Country of Ref document: BR
ZA201006949 A	20110629	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201006949 A	20300928	PEXP		Calculated Patent Term Expiry	

56) Family number: 71412914 (US2018282051 AA)

Title: INSULATED **CONTAINER** WITH **TAMPER-EVIDENT**, REMOVABLE, AND RESEALABLE LID

Abstract: Embodiments of the disclosure include an insulated drinking vessel comprising an inner wall surrounding an interior for **containing** a liquid beverage and an outer wall spaced from the inner wall to form an air space which acts to insulate the vessel interior in order to maintain the temperature of the liquid beverage contents within a desired range throughout a period of time which is normally required to consume the entire beverage contents. The insulated drinking vessel also includes a removable/resealable lid comprising at least one integrated **tamper-evident** sealed content dispensing **opening** which, when breached, allows the beverage contents to be removed while the lid remains attached to the vessel.

Classifications:
International (IPC 8-9): B65D81/38
CPC: B65D2231/022 B65D2543/00046 B65D2543/00092 B65D2543/00231 B65D2543/00296 B65D2543/00518 B65D2543/00555 B65D2543/00953 B65D43/0283 B65D47/06 B65D47/089 B65D81/3837 B65D81/3869
US: 1/1 220/592.2



Family:

Publication number	Publication date	Application number	Application date
US2018282051 AA	20181004	US20180940472	20180329

Priority:
US20170478388P 20170329 US20180940472 20180329

Probable Assignee: WAITR INC
Assignee(s): (std): WAITR INC
Assignee(s): LUXOR CAPITAL GROUP LP COLLATERAL AGENT AS
Inventor(s): (std): MEAUX CHRIS ; MILLER ROBERT D

Legal status (INPADOC)

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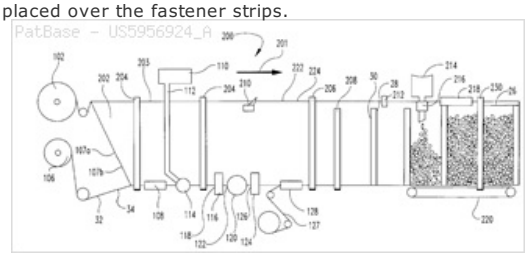
Patent	Date recorded	Event group	Code	Event	Details
US2018282051 AA	20180823		RFE1	Docketed New Case - Ready for Examination	
US2018282051 AA	20180823		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: DOCKETED NEW CASE - READY FOR EXAMINATION
US2018282051 AA	20181004	LSPB	+	published / reissued	
US2018282051 AA	20181120	LSAS	AS	ASSIGNMENT	Effective date: 20181115 OldParty: SECURITY INTEREST;ASSIGNOR:WAITR

					INC.;REEL/FRAME:047551/0353 Owner: LUXOR CAPITAL GROUP, LP, AS COLLATERAL AGENT, NEW PartyType: owner
US2018282051 AA	20190528	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MEAUX, CHRIS;MILLER, ROBERT D.;SIGNING DATES FROM 20190413 TO 20190425;REEL/FRAME:049296/0257 Owner: WAITR, INC., LOUISIANA PartyType: owner
US2018282051 AA	20191205	LSES	NFA1	Non Final Action Mailed	
US2018282051 AA	20191205		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NON FINAL ACTION MAILED
US2018282051 AA	20200313		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2018282051 AA	20200605		FRM1	Final Rejection Mailed	
US2018282051 AA	20200605		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: FINAL REJECTION MAILED
US2018282051 AA	20200910		RFE1	Docketed New Case - Ready for Examination	

57) Family number: 30001062 (US5956924 A)

Title: METHOD AND APPARATUS FOR PLACING A PRODUCT IN A FLEXIBLE RECLOSEABLE **CONTAINER**

Abstract: An invention for forming, filling, and sealing a flexible recloseable **container**. Both vertical and horizontal methods for placing product within the **container** are disclosed. The invention includes guiding a web of film which has interlocking fastener strips sealed to the web. A slider for **locking** and unlocking the fastener strips is placed in the correct orientation, spread apart at a pair of inner feet, and inserted over the fastener strips. The slider is positioned to close a substantial portion of the strips, and then an end stop, docking station, and corner seal are formed against a sealing plate. The slider is then repositioned, and a **tamper evident** seal may be placed over the fastener strips.



Classifications:
International (IPC 8-9): B31B1/84 B31B1/90 B31B19/90 B65B61/14 B65B61/18 B65B61/20 B65B9/06 B65B9/073 B65B9/093 B65B9/20 B65B9/207 B65B9/213 B65D33/16 B65D33/25 B65D61/20
International (IPC 1-7): A44B19/16 B31B1/60 B31B1/84 B65B6/118 B65B61/18 B65B61/20 B65B9/06 B65B9/08 B65B9/20 B65D33/16 B65D33/25 B65D61/20
CPC: B31B70/8132 B65B25/005 B65B25/068 B65B61/02 B65B61/188 B65B9/06 B65B9/073 B65B9/093 B65B9/20 B65B9/207 B65B9/213 Y10S493/927 B65D33/2591 Y10T24/2532
US: 24/399 24/399P 383/5 383/61.2 383/64 383/64S 493/114 493/114P 493/212 493/213 493/213P 493/214 493/214S 493/927 53/133.4 53/133.400S 53/139.2 53/139.200S 53/412 53/412P 53/412S 53/45 53/450 53/450S 53/451 53/451S 53/550 53/550S 53/551 53/551S

Family:

Publication number	Publication date	Application number	Application date
AU199913018 A1	19990531	AU19990013018	19981103
CA2309432 AA	20000505	CA19982309432	19981103
CA2309432 C	20090505	CA19982309432	19981103
DE69837561 D1	20070524	DE19986037561T	19981103
DE69837561 T2	20080103	DE19986037561T	19981103
DK1051329 T3	20070730	DK19980956512T	19981103
EP1051329 A1	20001115	EP19980956512	19981103
EP1051329 A4	20020327	EP19980956512	19981103
EP1051329 B1	20070411	EP19980956512	19981103
ES2285788 T3	20071116	ES19980956512T	19981103
JP2001522764 T2	20011120	JP20000520351T	19981103
JP4229587 B2	20090225	JP20000520351T	19981103
KR20010031817 A	20010416	KR20007004887	19981103
NO20002374 A	20000703	NO20000002374	20000505
NO20002374 A0	20000505	NO20000002374	20000505
NO20002374 L	20000703	NO20000002374	20000505
NO323758 B1	20070702	NO20000002374	20000505
NZ504577 A	20030630	NZ19980504577	19981103
PL201185 B1	20090331	PL19980340428	19981103
PL340428 A1	20010212	PL19980340428	19981103
PT1051329 T	20070531	PT19980956512T	19981103
SK200000666 A5	20001107	SK20000000666	19981103
US5956924 A	19990928	US19970965722	19971107
US6209287 BA	20010403	US19990370053	19990806
US6216423 BA	20010417	US20000493718	20000128
US2002040563 AA	20020411	US20010022451	20011217
US6438926 BA	20020827	US20010022451	20011217
US2002017078 AA	20020214	US20010794592	20010227
US6499272 BB	20021231	US20010794592	20010227
US2001005971 AA	20010705	US20010796262	20010228
US6363692 BB	20020402	US20010796262	20010228
US2002134050 AA	20020926	US20020098186	20020312
US2002194818 AA	20021226	US20020209769	20020801
US6925779 BB	20050809	US20020209769	20020801
US2003074861 AA	20030424	US20020232844	20020830
US6962034 BB	20051108	US20020232844	20020830
US2004000124 AA	20040101	US20020290109	20021107
US7383675 BB	20080610	US20020290109	20021107
US2003220179 AA	20031127	US20020325483	20021219
US6918230 BB	20050719	US20020325483	20021219
US2003220180 AA	20031127	US20020325596	20021219
US6907713 BB	20050621	US20020325596	20021219
US2004074058 AA	20040422	US20030405052	20030401
US7540662 BB	20090602	US20030405052	20030401
US2005003940 AA	20050106	US20040772574	20040205
US7320662 BB	20080122	US20040772574	20040205
US2006112664 AA	20060601	US20050177226	20050708
US8127517 BB	20120306	US20050177226	20050708
US2006096245 AA	20060511	US20050177243	20050708
US7552573 BB	20090630	US20050177243	20050708
WO9924325 A1	19990520	WO1998US23400	19981103

Priority:

US19970965722 19971107 US19970965722 19971111 WO1998US23400 19981103
US19990370053 19990806 US19990148495P 19990812 US20000493718 20000128

US20010794592 20010227 US20010796262 20010228 US20010022451 20011217
US20020098186 20020312 US20020209769 20020801 US20020232844 20020830
US20020290109 20021107 US20020325483 20021219 US20020325596 20021219
US20030405052 20030401 US20040772574 20040205 US20050177243 20050708
US20050177226 20050708

Probable Assignee: ILLINOIS TOOL WORKS INC

Assignee(s): (std): HUNTSMAN KCL CORP ; ILLINOIS TOOL WORKS ; KCL CORP ; PLIANT CORP ; THIEMAN RONALD G

Assignee(s): BANKERS TRUST CO ; DEUTSCHE BANK TRUST CO ; GENERAL ELECTRIC CAPITAL AS COLLATERAL AGENT SUCCE ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT SUCCE AS ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT SUCCESSO ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT SUCCESSOR TO DEUTSCHE BANK TRUST CO AMERICAS AS CORP ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT SUCCESSOR TO DEUTSCHE BANK TRUST CO AMERICAS CORP AS ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT SUCCESSOR TO DEUTSCHE BANK TRUST CO AS CORP ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT SUCCESSOR TO DEUTSCHE BANK TRUST CO CORP AS ; HUNTSMAN PACKAGING CORP ; ILLINOIS TOOL WORKS INC ; PLIANT SOLUTIONS CORP ; RCL CORP ; WILMINGTON TRUST CO ; WILMINGTON TRUST CO COLLATERAL AGENT AS

Inventor(s): (std): THIEMAN RONALD G

Inventor(s): RONALD G THIEMAN ; THIEMAN RONALD

Agent(s): ASPEN PHARMA PTY LTD; BINGHAM GREENEBAUM DOLL LLP; BINGHAM MCHALE LLP; BRIAN R; CHIBA AKIO; CROLL MARK W; DANILUCK ESQ JOHN V; DANILUCK JOHN V; JOHN H; JOHN V; JOHN V DANILUCK BINGHAM MCHALE LLP; KANDA FUJIHIRO; KOBAYASHI YASUSHI; MARK W; MCGINLEY ESQ BRIAN R; ONO SHINJIRO; PILARSKI JOHN H; SHAMOTO ICHIO; SMART AND BIGGAR; SPRUSON AND FERGUSON; TOMITA HIROYUKI; WOODARD EMHARDT MORIARTY MCNETT AND HENRY LLP; WOODARD EMHARDT NAUGHTON MORIARTY AND MCNETT

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199913018 A1	19990531	LSPB	+	published / reissued	
AU199913018 A1	20000831	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	Owner: ON=HUNTSMAN KCL CORPORATION; FT=THE FORMER OWNER W PartyType: owner
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CA2309432 AA	20000505	LSPB	+	published / reissued	
CA2309432 AA	20031027	LSES	+EEER	EXAMINATION REQUEST	
CA2309432 C	20090505	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2309432 C	20181103	PEXP		Calculated Patent Term Expiry	
CA2309432 C	20190107	LSLE	-MKEX	EXPIRY	Effective date: 20181105
DE69837561 D1	20080430	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69837561 D1	20181103	LSLE	-R071	EXPIRY OF RIGHT	
DE69837561 T2	20080103	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69837561 T2	20080430	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69837561 T2	20181103	PEXP		Calculated Patent Term Expiry	
DE69837561 T2	20181103	LSLE	-R071	EXPIRY OF RIGHT	
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DK1051329 T3	20181103	PEXP		Calculated Patent Term Expiry	
EP1051329 A1	20001115	LSPB	+	published / reissued	
EP1051329 A1	20001115	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20000601
EP1051329 A1	20001115		+AK	DESIGNATED	Kind code of Ref document: A1

				CONTRACTING STATES	Country of Ref document: BE CH DE DK ES FI FR GB IE IT LI LU NL PT SE
EP1051329 A1	20080430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20071213 Year of fee payment: 10 Country of Ref document: BE
EP1051329 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151127 Year of fee payment: 18 Country of Ref document: DE
EP1051329 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151127 Year of fee payment: 18 Country of Ref document: GB
EP1051329 A1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151117 Year of fee payment: 18 Country of Ref document: FR
EP1051329 A1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151126 Year of fee payment: 18 Country of Ref document: ES
EP1051329 A4	20020327	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	Effective date: 20020207
EP1051329 A4	20020327		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A4 Country of Ref document: BE CH DE DK ES FI FR GB IE IT LI LU NL PT SE
EP1051329 A4	20020327		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	Text: 7B 65B 61/18 A, 7B 65B 9/06 B, 7B 65B 9/20 B
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EP1051329 A4	20050629	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: PLIANT SOLUTIONS CORPORATION PartyType: owner
EP1051329 A4	20060322	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: PLIANT CORPORATION PartyType: owner
EP1051329 A4	20070124	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: ILLINOIS TOOL WORKS INC. PartyType: owner
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EP1051329 B1	20070524		REF	CORRESPONDS TO:	Date of Ref document: 20070524 Kind code of Ref document: P Ref document number: 69837561 Country of Ref document: DE
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EP1051329 B1	20070730		REG	REFERENCE TO A NATIONAL CODE	Ref country code: DK Ref legal event code: T3
EP1051329 B1	20070903		+NLR4	NL: RECEIPT OF CORRECTED TRANSLATION IN THE NETHERLANDS LANGUAGE AT THE INITIATIVE OF THE	

				PROPRIETOR OF THE PATENT	
EP1051329 B1	20071005		+ET	FR: TRANSLATION FILED	
EP1051329 B1	20071116	LSGT	REG	REFERENCE TO A NATIONAL CODE	Kind code of Ref document: T3 Ref country code: ES Ref document number: 2285788 Ref legal event code: FG2A Country of Ref document: ES
EP1051329 B1	20080131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20071130 Year of fee payment: 10 Country of Ref document: DK
EP1051329 B1	20080131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20071124 Year of fee payment: 10 Country of Ref document: NL
EP1051329 B1	20080229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20071129 Year of fee payment: 10 Country of Ref document: CH
EP1051329 B1	20080229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20071129 Year of fee payment: 10 Country of Ref document: FI
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EP1051329 B1	20080331	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20071213 Year of fee payment: 10 Country of Ref document: BE
EP1051329 B1	20080331	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20071128 Year of fee payment: 10 Country of Ref document: SE
EP1051329 B1	20090227	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081021 Year of fee payment: 11 Country of Ref document: PT
EP1051329 B1	20090531	LSLE	-BERE	BE: LAPSED	Effective date: 20081130 Owner: ILLINOIS TOOL WORKS INC. PartyType: owner Ref country code: EP
EP1051329 B1	20090630	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP1051329 B1	20090706	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DK Ref legal event code: EBP
EP1051329 B1	20090714	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	Ref country code: EP
EP1051329 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081103 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FI
EP1051329 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090601 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: NL
EP1051329 B1	20090803	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	Effective date: 20090601 Ref country code: EP
EP1051329 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20071103 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU

EP1051329 B1	20090831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20071126 Year of fee payment: 10 Country of Ref document: IE
EP1051329 B1	20090930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081130 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP1051329 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081130 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP1051329 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081130 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DK
EP1051329 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081103 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP1051329 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081130 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP1051329 B1	20100512	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20100503 Ref country code: PT Ref legal event code: MM4A Text: LAPSE DUE TO NON-PAYMENT OF FEES
EP1051329 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20100503 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PT
EP1051329 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081104 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: SE
EP1051329 B1	20110331	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20101124 Year of fee payment: 13 Country of Ref document: IT
EP1051329 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121103 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IT
EP1051329 B1	20151117	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 18 Country of Ref document: FR
EP1051329 B1	20161123	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 19 Country of Ref document: FR
EP1051329 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161128 Year of fee payment: 19 Country of Ref document: GB
EP1051329 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161123 Year of fee payment: 19 Country of Ref document: FR
EP1051329 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID	Payment date: 20161123

				TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 19 Country of Ref document: DE
EP1051329 B1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161128 Year of fee payment: 19 Country of Ref document: ES
EP1051329 B1	20171127	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 20
EP1051329 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171127 Year of fee payment: 20 Country of Ref document: FR
EP1051329 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171129 Year of fee payment: 20 Country of Ref document: DE
EP1051329 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171127 Year of fee payment: 20 Country of Ref document: GB
EP1051329 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171201 Year of fee payment: 20 Country of Ref document: ES
EP1051329 B1	20181102	PEXP		Calculated Patent Term Expiry	
EP1051329 B1	20181103	PEXP		Calculated Patent Term Expiry	
EP1051329 B1	20181103	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 69837561 Ref legal event code: R071 Country of Ref document: DE
EP1051329 B1	20181121	LSLE	REG	REFERENCE TO A NATIONAL CODE	Expiry date: 20181102 Ref country code: GB Ref legal event code: PE20
EP1051329 B1	20190228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20181102 NotificationOfLapse: LAPSE BECAUSE OF EXPIRATION OF PROTECTION Country of Ref document: GB
EP1051329 B1	20200721	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20200721 Ref country code: ES Ref legal event code: FD2A
ES2285788 T3	20071116	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2285788 T3	20181103	PEXP		Calculated Patent Term Expiry	
ES2285788 T3	20200721	LSLE	-FD2A	ANNOUNCEMENT OF LAPSE IN SPAIN	Effective date: 20200721 Lapsed date: 20200721
JP2001522764 T2	20011120	LSPB	+	published / reissued	
JP2001522764 T2	20050901	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20050831 Text: JAPANESE INTERMEDIATE CODE: A621
JP2001522764 T2	20051130	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	Effective date: 20051129 Text: JAPANESE INTERMEDIATE CODE: A711
JP2001522764 T2	20051228	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20051129 Text: JAPANESE INTERMEDIATE CODE: A821
JP2001522764 T2	20080205	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20080204 Text: JAPANESE INTERMEDIATE CODE: A131
JP2001522764 T2	20080503		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Effective date: 20080502 Text: JAPANESE INTERMEDIATE CODE: A601
JP2001522764 T2	20080514		A602	WRITTEN PERMISSION OF EXTENSION OF	Effective date: 20080513 Text: JAPANESE INTERMEDIATE CODE: A602

				TIME	
JP2001522764 T2	20080805	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20080804 Text: JAPANESE INTERMEDIATE CODE: A523
JP2001522764 T2	20081030	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2001522764 T2	20081105	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	Effective date: 20081104 Text: JAPANESE INTERMEDIATE CODE: A01
JP2001522764 T2	20081106	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	Text: JAPANESE INTERMEDIATE CODE: A01
JP2001522764 T2	20081211	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	Effective date: 20081202 Text: JAPANESE INTERMEDIATE CODE: A61
JP2001522764 T2	20081215	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	Year of fee payment: 3
JP4229587 B2	20081106	LSGT	+A01	特許査定書	
JP4229587 B2	20081209	LSFE	R100	特許料納付書	
JP4229587 B2	20081212	LSGT	+R150	特許証	
JP4229587 B2	20090225	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4229587 B2	20111201	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	Year of fee payment: 3
JP4229587 B2	20111201	LSFE	R20	特許料納付書	
JP4229587 B2	20111206	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	Year of fee payment: 4
JP4229587 B2	20111206	LSFE	+R250	年金領収書, 年金領収書(分納)	
JP4229587 B2	20121206	LSFE	R20	特許料納付書	
JP4229587 B2	20121211	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	Year of fee payment: 5
JP4229587 B2	20121211	LSFE	+R250	年金領収書, 年金領収書(分納)	
JP4229587 B2	20131128	LSFE	R20	特許料納付書	
JP4229587 B2	20131203	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
JP4229587 B2	20131203	LSFE	+R250	年金領収書, 年金領収書(分納)	
JP4229587 B2	20141127	LSFE	R20	特許料納付書	
JP4229587 B2	20141202	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
JP4229587 B2	20141202	LSFE	+R250	年金領収書, 年金領収書(分納)	
JP4229587 B2	20151203	LSFE	R20	特許料納付書	
JP4229587 B2	20151208	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
JP4229587 B2	20151208	LSFE	+R250	年金領収書, 年金領収書(分納)	
JP4229587 B2	20161201	LSFE	R20	特許料納付書	
JP4229587 B2	20161206	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
JP4229587 B2	20161206	LSFE	+R250	年金領収書, 年金領収書(分納)	
JP4229587 B2	20171130	LSFE	R20	特許料納付書	
JP4229587 B2	20171205	LSFE	+R250	RECEIPT OF	Text: JAPANESE INTERMEDIATE CODE:

				ANNUAL FEES	R250
JP4229587 B2	20171205	LSFE	+R250	年金領収書, 年金領収書(分納)	
JP4229587 B2	20181103	PEXP		Calculated Patent Term Expiry	
JP4229587 B2	20181103	LSLE	-EXPY	CANCELLATION BECAUSE OF COMPLETION OF TERM	
KR20010031817 A	20000803	LSAS	N231	NOTIFICATION OF CHANGE OF APPLICANT	
KR20010031817 A	20010416	LSPB	+	published / reissued	
KR20010031817 A	20031103	LSES	A201	REQUEST FOR EXAMINATION	
KR20010031817 A	20051027	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20010031817 A	20060102	LSAS	N231	NOTIFICATION OF CHANGE OF APPLICANT	
KR20010031817 A	20060721	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20010031817 A	20070423		-NORF	UNPAID INITIAL REGISTRATION FEE	
NO20002374 A	20000703	LSPB	+	published / reissued	
NO323758 B1	20070702	LSGT	+	granted / extensions (spc, cpc, pte)	
NO323758 B1	20100628	LSLE	-MM1K	LAPSED BY NOT PAYING THE ANNUAL FEES	
NO323758 B1	20200505	PEXP		Calculated Patent Term Expiry	
NZ504577 A	20030630	LSPB	+	published / reissued	
NZ504577 A	20031031	LSGT	+PSEA	PATENT SEALED	
NZ504577 A	20040227	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ504577 A	20051125	LSAS	ASS	CHANGE OF OWNERSHIP	OldParty: OLD OWNER(S): ILLINOIS TOOL WORKS INC.; PLIANT SOLUTIONS CORPORATION Owner: ILLINOIS TOOL WORKS INC., US PartyType: owner
NZ504577 A	20051125	LSAS	ASS	CHANGE OF OWNERSHIP	OldParty: OLD OWNER(S): PLIANT CORPORATION Owner: ILLINOIS TOOL WORKS INC., US PartyType: owner
NZ504577 A	20051125	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ504577 A	20081128	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ504577 A	20111222	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ504577 A	20181130	LSLE	-EXPY	PATENT EXPIRED	
PL201185 B1	20090331	LSGT	+	granted / extensions (spc, cpc, pte)	
PL340428 A1	20010212	LSPB	+	published / reissued	
PT1051329 T	20070531	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1051329 T	20181103	PEXP		Calculated Patent Term Expiry	
SK200000666 A5	20001107	LSPB	+	published / reissued	
SK200000666 A5	20101007	LSRV	-FC9A	REFUSED PATENT APPLICATION	
US2001005971 AA	20010705	LSPB	+	published /	

				reissued	
US2001005971 AA	20020314	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2002017078 AA	20020214	LSPB	+	published / reissued	
US2002017078 AA	20020612	LSAS	AS	ASSIGNMENT	Effective date: 20000127 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:012986/0465 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US2002017078 AA	20021212	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2002040563 AA	20020411	LSPB	+	published / reissued	
US2002040563 AA	20020808	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2002134050 AA	20020926	LSPB	+	published / reissued	
US2002134050 AA	20030304	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KCL CORPORATION;REEL/FRAME:013801/0295 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US2002134050 AA	20030304	LSAS	AS	ASSIGNMENT	Effective date: 19971103 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:013806/0279 Owner: KCL CORPORATION, INDIANA PartyType: owner
US2002134050 AA	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US2002134050 AA	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014210/0824 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US2002134050 AA	20040308	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2002134050 AA	20040308		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US2002134050 AA	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US2002134050 AA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US2002194818 AA	20021226	LSPB	+	published / reissued	
US2002194818 AA	20030331	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KCL CORPORATION;REEL/FRAME:013898/0155 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US2002194818 AA	20030331	LSAS	AS	ASSIGNMENT	Effective date: 19971103 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:013898/0460 Owner: KCL CORPORATION, INDIANA PartyType: owner
US2002194818 AA	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT

					CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US2002194818 AA	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014210/0824 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US2002194818 AA	20040427	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:014564/0210 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US2002194818 AA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US2002194818 AA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016107/0204 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US2002194818 AA	20050720	LSGT	PAT1	Patented Case	
US2002194818 AA	20050720	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2003074861 AA	20030424	LSPB	+	published / reissued	
US2003074861 AA	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US2003074861 AA	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:014215/0001 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US2003074861 AA	20031014	LSAS	AS	ASSIGNMENT	Effective date: 20000127 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:014587/0584 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US2003074861 AA	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US2003074861 AA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US2003074861 AA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016107/0204 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US2003074861 AA	20051019	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2003220179 AA	20031127	LSPB	+	published / reissued	
US2003220179 AA	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS

					PartyType: owner
US2003220179 AA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US2003220179 AA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016107/0204 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US2003220179 AA	20050629	LSGT	PAT1	Patented Case	
US2003220179 AA	20050629	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2003220180 AA	20031127	LSPB	+	published / reissued	
US2003220180 AA	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US2003220180 AA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US2003220180 AA	20050601	LSGT	PAT1	Patented Case	
US2003220180 AA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016107/0204 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US2004000124 AA	20040101	LSPB	+	published / reissued	
US2004000124 AA	20040416	LSAS	AS	ASSIGNMENT	Effective date: 20000727 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THEIMAN, RONALD G.;REEL/FRAME:014528/0125 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US2004000124 AA	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US2004000124 AA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US2004000124 AA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016107/0204 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US2004000124 AA	20080521	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2004074058 AA	20040422	LSPB	+	published / reissued	
US2004074058 AA	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US2004074058 AA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US2004074058 AA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS

					INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016107/0204 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US2004074058 AA	20050614	LSAS	AS	ASSIGNMENT	Effective date: 20000127 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:016134/0715 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US2004074058 AA	20090513	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2005003940 AA	20050106	LSPB	+	published / reissued	
US2005003940 AA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016107/0204 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US2005003940 AA	20080102	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2006096245 AA	20060511	LSPB	+	published / reissued	
US2006096245 AA	20090429	LSAS	AS	ASSIGNMENT	Effective date: 19971103 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:022609/0301 Owner: KCL CORPORATION, INDIANA PartyType: owner
US2006096245 AA	20090501	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:KCL CORPORATION;KCL PROMOTIONAL PACKAGING PRODUCTS, LTD.;REEL/FRAME:022624/0320 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US2006096245 AA	20090501	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:022624/0358 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US2006096245 AA	20090501	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:022624/0400 Owner: ILLINOIS TOOL WORKS INC., INDIANA PartyType: owner
US2006096245 AA	20090501	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:022624/0407 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US2006096245 AA	20090610	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2006112664 AA	20060601	LSPB	+	published / reissued	
US2006112664 AA	20091124	LSAS	AS	ASSIGNMENT	Effective date: 19971103 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:023563/0684 Owner: KCL CORPORATION, INDIANA PartyType: owner
US2006112664 AA	20091124	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:023563/0883 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US2006112664 AA	20091124	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:023564/0075 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US2006112664 AA	20091124	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT

					CORPORATION;REEL/FRAME:023564/0108 Owner: ILLINOIS TOOL WORKS, ILLINOIS PartyType: owner
US2006112664 AA	20091124	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:KCL CORPORATION;KCL PROMOTIONAL PACKAGING PRODUCTS, LTD.;REEL/FRAME:023563/0802 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US2006112664 AA	20120215	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US5956924 A	19971107	LSAS	AS	ASSIGNMENT	Effective date: 19971103 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:008818/0032 Owner: KCL CORPORATION, INDIANA PartyType: owner
US5956924 A	19990920	LSGT	PAT1	Patented Case	
US5956924 A	19990920	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US5956924 A	19990928	LSGT	+	granted / extensions (spc, cpc, pte)	
US5956924 A	20000110	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:KCL CORPORATION;KCL PROMOTIONAL PACKAGING PRODUCTS, LTD.;REEL/FRAME:010506/0041 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US5956924 A	20000705	LSAS	AS	ASSIGNMENT	Effective date: 20000531 OldParty: RELEASE OF SECURITY;ASSIGNOR:THE CHASE MANHATTAN BANK, AS COLLATERAL AGENT;REEL/FRAME:010949/0341 Owner: HUNTSMAN PACKAGING CORPORATION, UTAH PartyType: owner
US5956924 A	20000726	LSAS	AS	ASSIGNMENT	Effective date: 20000531 OldParty: SECURITY INTEREST;ASSIGNOR:HUNTSMAN PACKAGING CORPORATION;REEL/FRAME:011006/0657 Owner: BANKERS TRUST COMPANY, NEW YORK PartyType: owner
US5956924 A	20030121	LSRE	CC	CERTIFICATE OF CORRECTION	
US5956924 A	20030327	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5956924 A	20030416		REMI	MAINTENANCE FEE REMINDER MAILED	
US5956924 A	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014210/0824 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US5956924 A	20040330	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:015127/0728 Owner: WILMINGTON TRUST COMPANY, AS COLLATERAL AGENT, DEL PartyType: owner
US5956924 A	20040331	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:015147/0272 Owner: GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA PartyType: owner
US5956924 A	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US5956924 A	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS

					CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US5956924 A	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016105/0452 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US5956924 A	20070328	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5956924 A	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US5956924 A	20110328	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US5956924 A	20171107	PEXP		Calculated Patent Term Expiry	
US6209287 BA	20000110	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:KCL CORPORATION;KCL PROMOTIONAL PACKAGING PRODUCTS, LTD.;REEL/FRAME:010506/0041 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US6209287 BA	20000726	LSAS	AS	ASSIGNMENT	Effective date: 20000531 OldParty: SECURITY INTEREST;ASSIGNOR:HUNTSMAN PACKAGING CORPORATION;REEL/FRAME:011006/0657 Owner: BANKERS TRUST COMPANY, NEW YORK PartyType: owner
US6209287 BA	20010315	LSGT	PAT1	Patented Case	
US6209287 BA	20010315	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US6209287 BA	20010403	LSGT	+	granted / extensions (spc, cpc, pte)	
US6209287 BA	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US6209287 BA	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014210/0824 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6209287 BA	20040330	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:015127/0728 Owner: WILMINGTON TRUST COMPANY, AS COLLATERAL AGENT, DEL PartyType: owner
US6209287 BA	20040331	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:015147/0272 Owner: GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA PartyType: owner
US6209287 BA	20040930	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6209287 BA	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US6209287 BA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner

US6209287 BA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016105/0452 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US6209287 BA	20081003	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6209287 BA	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6209287 BA	20121003	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6209287 BA	20190806	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6216423 BA	20000128	LSAS	AS	ASSIGNMENT	Effective date: 20000127 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:010532/0965 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US6216423 BA	20010329	LSGT	PAT1	Patented Case	
US6216423 BA	20010329	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US6216423 BA	20010417	LSGT	+	granted / extensions (spc, cpc, pte)	
US6216423 BA	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US6216423 BA	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014210/0824 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6216423 BA	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: ARTICLES OF AMENDMENT/SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:014210/0618 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6216423 BA	20040330	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:015127/0728 Owner: WILMINGTON TRUST COMPANY, AS COLLATERAL AGENT, DEL PartyType: owner
US6216423 BA	20040331	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:015147/0272 Owner: GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA PartyType: owner
US6216423 BA	20040930	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6216423 BA	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US6216423 BA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6216423 BA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016105/0452 Owner: ILLINOIS TOOL WORKS INC.,

					ILLINOIS PartyType: owner
US6216423 BA	20081017	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6216423 BA	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6216423 BA	20121017	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6216423 BA	20200128	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6363692 BB	20010628	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:KCL CORPORATION;KCL PROMOTIONAL PACKAGING PRODUCTS, LTD.;REEL/FRAME:011940/0460 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US6363692 BB	20020314	LSGT	PAT1	Patented Case	
US6363692 BB	20020402	LSGT	+	granted / extensions (spc, cpc, pte)	
US6363692 BB	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US6363692 BB	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:014215/0001 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6363692 BB	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: ARTICLES OF AMENDMENT/SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:014210/0618 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6363692 BB	20040330	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:015127/0793 Owner: WILMINGTON TRUST COMPANY, AS COLLATERAL AGENT, DEL PartyType: owner
US6363692 BB	20040331	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:015147/0213 Owner: GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA PartyType: owner
US6363692 BB	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US6363692 BB	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6363692 BB	20050429	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: RELEASE OF SECURITY;ASSIGNOR:WILMINGTON TRUST COMPANY, AS COLLATERAL AGENT;REEL/FRAME:016005/0459 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6363692 BB	20050429	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: RELEASE OF SECURITY;ASSIGNOR:GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERAL AGENT;REEL/FRAME:016021/0210 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner

US6363692 BB	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016105/0452 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US6363692 BB	20051003	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6363692 BB	20091002	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6363692 BB	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6363692 BB	20131002	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6363692 BB	20171107	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6438926 BA	20020305	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:012645/0865 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US6438926 BA	20020808	LSGT	PAT1	Patented Case	
US6438926 BA	20020827	LSGT	+	granted / extensions (spc, cpc, pte)	
US6438926 BA	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US6438926 BA	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:014215/0001 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6438926 BA	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: ARTICLES OF AMENDMENT/SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:014210/0618 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6438926 BA	20040330	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:015127/0793 Owner: WILMINGTON TRUST COMPANY, AS COLLATERAL AGENT, DEL PartyType: owner
US6438926 BA	20040331	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:015147/0213 Owner: GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA PartyType: owner
US6438926 BA	20040518	LSRE	CC	CERTIFICATE OF CORRECTION	
US6438926 BA	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US6438926 BA	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6438926 BA	20050429	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: RELEASE OF SECURITY;ASSIGNOR:WILMINGTON TRUST COMPANY, AS COLLATERAL AGENT;REEL/FRAME:016005/0459 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6438926 BA	20050429	LSAS	AS	ASSIGNMENT	Effective date: 20050413

					OldParty: RELEASE OF SECURITY;ASSIGNOR:GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERAL AGENT;REEL/FRAME:016021/0210 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6438926 BA	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016105/0452 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner
US6438926 BA	20060227	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6438926 BA	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6438926 BA	20100301	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6438926 BA	20140227	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6438926 BA	20171107	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6499272 BB	20021212	LSGT	PAT1	Patented Case	
US6499272 BB	20021231	LSGT	+	granted / extensions (spc, cpc, pte)	
US6499272 BB	20030318	LSRE	CC	CERTIFICATE OF CORRECTION	
US6499272 BB	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US6499272 BB	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014210/0824 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6499272 BB	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: ARTICLES OF AMENDMENT/SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:014210/0618 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6499272 BB	20040330	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:015127/0728 Owner: WILMINGTON TRUST COMPANY, AS COLLATERAL AGENT, DEL PartyType: owner
US6499272 BB	20040331	LSAS	AS	ASSIGNMENT	Effective date: 20040217 OldParty: SECURITY AGREEMENT;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:015147/0272 Owner: GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA PartyType: owner
US6499272 BB	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20001130 OldParty: CHANGE OF NAME;ASSIGNOR:HUNTSMAN KCL CORPORATION;REEL/FRAME:015886/0648 Owner: PLIANT SOLUTIONS CORPORATION, ILLINOIS PartyType: owner
US6499272 BB	20050414	LSAS	AS	ASSIGNMENT	Effective date: 20050314 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT SOLUTIONS CORPORATION;REEL/FRAME:016069/0630 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6499272 BB	20050608	LSAS	AS	ASSIGNMENT	Effective date: 20050413 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:016105/0452 Owner: ILLINOIS TOOL WORKS INC., ILLINOIS PartyType: owner

US6499272 BB	20060630	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6499272 BB	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6499272 BB	20100630	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6499272 BB	20100720	LSRE	CC	CERTIFICATE OF CORRECTION	
US6499272 BB	20140630	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6499272 BB	20210227	PEXP		Calculated Patent Term Expiry	
US6907713 BB	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US6907713 BB	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:014215/0001 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US6907713 BB	20031024	LSAS	AS	ASSIGNMENT	Effective date: 19971103 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:014620/0112 Owner: KCL CORPORATION, INDIANA PartyType: owner
US6907713 BB	20031024	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KCL CORPORATION;REEL/FRAME:014620/0119 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US6907713 BB	20050621	LSGT	+	granted / extensions (spc, cpc, pte)	
US6907713 BB	20081222	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6907713 BB	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6907713 BB	20121002	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6907713 BB	20170127		REMI	MAINTENANCE FEE REMINDER MAILED	
US6907713 BB	20170621	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6907713 BB	20170717	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6907713 BB	20170717	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6907713 BB	20170808	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20170621
US6907713 BB	20221219	PEXP		Calculated Patent Term Expiry	
US6918230 BB	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US6918230 BB	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:014215/0001 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner

US6918230 BB	20031024	LSAS	AS	ASSIGNMENT	Effective date: 19971103 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:014620/0112 Owner: KCL CORPORATION, INDIANA PartyType: owner
US6918230 BB	20031024	LSAS	AS	ASSIGNMENT	Effective date: 19991220 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KCL CORPORATION;REEL/FRAME:014620/0119 Owner: HUNTSMAN KCL CORPORATION, UTAH PartyType: owner
US6918230 BB	20050719	LSGT	+	granted / extensions (spc, cpc, pte)	
US6918230 BB	20090120	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6918230 BB	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6918230 BB	20130121	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6918230 BB	20170119	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6918230 BB	20221219	PEXP		Calculated Patent Term Expiry	
US6925779 BB	20050809	LSGT	+	granted / extensions (spc, cpc, pte)	
US6925779 BB	20060221	LSRE	CC	CERTIFICATE OF CORRECTION	
US6925779 BB	20090209	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6925779 BB	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6925779 BB	20130211	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6925779 BB	20170209	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6925779 BB	20220801	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6962034 BB	20051019	LSGT	PAT1	Patented Case	
US6962034 BB	20051108	LSGT	+	granted / extensions (spc, cpc, pte)	
US6962034 BB	20090508	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6962034 BB	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US6962034 BB	20130508	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6962034 BB	20170508	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US6962034 BB	20220830	PEXP		Calculated Patent Term Expiry	
US7320662 BB	20040830	LSAS	AS	ASSIGNMENT	Effective date: 20040722 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THIEMAN, RONALD G.;REEL/FRAME:015726/0258 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US7320662 BB	20080102	LSGT	PAT1	Patented Case	
US7320662 BB	20080122	LSGT	+	granted / extensions (spc, cpc, pte)	
US7320662 BB	20110722	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7320662 BB	20150722	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US7320662 BB	20171107	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US7320662 BB	20190909	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY

US7320662 BB	20200224	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7320662 BB	20200224	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7320662 BB	20200224	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7320662 BB	20200317	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20200122
US7383675 BB	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US7383675 BB	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:014215/0001 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US7383675 BB	20080521	LSGT	PAT1	Patented Case	
US7383675 BB	20080610	LSGT	+	granted / extensions (spc, cpc, pte)	
US7383675 BB	20090602	LSRE	CC	CERTIFICATE OF CORRECTION	
US7383675 BB	20090623	LSRE	CC	CERTIFICATE OF CORRECTION	
US7383675 BB	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US7383675 BB	20110923	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7383675 BB	20151210	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US7383675 BB	20171107	PEXP		Calculated Patent Term Expiry	
US7383675 BB	20200127	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7383675 BB	20200713	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7383675 BB	20200713	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7383675 BB	20200804	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20200610
US7540662 BB	20030528	LSAS	AS	ASSIGNMENT	Effective date: 20030527 OldParty: SECURITY AGREEMENT;ASSIGNORS:PLIANT CORPORATION;PLIANT SOLUTIONS CORPORATION;REEL/FRAME:014201/0128 Owner: DEUTSCHE BANK TRUST COMPANY, ILLINOIS PartyType: owner
US7540662 BB	20030626	LSAS	AS	ASSIGNMENT	Effective date: 20030530 OldParty: SECOND PRIORITY SECURITY AGREEMENT;ASSIGNOR:PLIANT CORPORATION;REEL/FRAME:014215/0001 Owner: WILMINGTON TRUST COMPANY, DELAWARE PartyType: owner
US7540662 BB	20090513	LSGT	PAT1	Patented Case	
US7540662 BB	20090602	LSGT	+	granted / extensions (spc, cpc, pte)	
US7540662 BB	20100115	LSAS	AS	ASSIGNMENT	Effective date: 20100112 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WILMINGTON TRUST

					COMPANY;REEL/FRAME:023792/0577 Owner: PLIANT CORPORATION, ILLINOIS PartyType: owner
US7540662 BB	20121203	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7540662 BB	20161202	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US7540662 BB	20190803	PEXP		Calculated Patent Term Expiry (PTA 634 days)	
US7552573 BB	20090610	LSGT	PAT1	Patented Case	
US7552573 BB	20090630	LSGT	+	granted / extensions (spc, cpc, pte)	
US7552573 BB	20121231	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7552573 BB	20161230	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US7552573 BB	20180429	PEXP		Calculated Patent Term Expiry (PTA 173 days)	
US8127517 BB	20120215	LSGT	PAT1	Patented Case	
US8127517 BB	20120306	LSGT	+	granted / extensions (spc, cpc, pte)	
US8127517 BB	20150907	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US8127517 BB	20180907	PEXP		Calculated Patent Term Expiry (PTA 304 days and a terminal disclaimer has been filed)	
US8127517 BB	20191028	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US8127517 BB	20200413	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US8127517 BB	20200413	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8127517 BB	20200413	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8127517 BB	20200505	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20200306
WO9924325 A1	19990520	LSPB	+	published / reissued	
WO9924325 A1	19990520		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
WO9924325 A1	19990520		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AM AT AZ BE BF BJ BY CF CG CH CI CM CY DE DK ES FI FR GA GB GH GM GN GR GW IE IT KE KG KZ LS LU MC MD ML MR MW NE NL PT RU SD SE SN SZ TD TG TJ TM UG ZW
WO9924325 A1	19990714		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO9924325 A1	19990729		DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO9924325 A1	20000503	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: PV2000-1620 Country of Ref document: CZ
WO9924325 A1	20000504	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1020007004887 Country of Ref document: KR
WO9924325 A1	20000504	LSNP	+WWE	WIPO INFORMATION:	Ref document number: PA/a/2000/004355

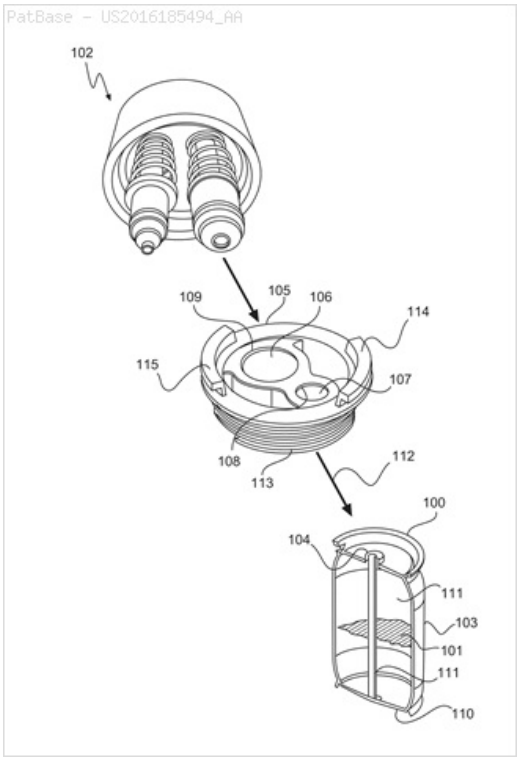
				ENTRY INTO NATIONAL PHASE	Country of Ref document: MX
WO9924325 A1	20000505	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2309432 Country of Ref document: CA
WO9924325 A1	20000505	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2309432 Country of Ref document: CA
WO9924325 A1	20000505	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 6662000 Country of Ref document: SK
WO9924325 A1	20000508	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2000 520351 Country of Ref document: JP
WO9924325 A1	20000516	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 504577 Country of Ref document: NZ
WO9924325 A1	20000519	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1998956512 Country of Ref document: EP
WO9924325 A1	20000523	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 13018/99 Country of Ref document: AU
WO9924325 A1	20000907	LSWD	REG	REFERENCE TO NATIONAL CODE	Ref country code: DE Ref legal event code: 8642
WO9924325 A1	20001115	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1998956512 Country of Ref document: EP
WO9924325 A1	20010411	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: PV2000-1620 Country of Ref document: CZ
WO9924325 A1	20010416	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1020007004887 Country of Ref document: KR
WO9924325 A1	20060721	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 1020007004887 Country of Ref document: KR
WO9924325 A1	20070411	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 1998956512 Country of Ref document: EP

58) Family number: 58512180 (US2016185494 AA)

Title: **CONTAINER** FOR TRANSPORTING AND STORING A LIQUID

Abstract: A **container** is provided which allows for draining the liquid via one of the **openings** of the cap and allows for venting the **container** simultaneously via the other **opening** of the cap. Advantageously, also rigid **containers**, even large sized ones, can be used due to the venting function provided by the dual function **closure** of the **container** and the cap. In other words, a **container** with a dual function **closure** comprised by the cap itself is presented which facilitates draining and venting the **container**. The cap comprises a **locking** means adapted to engage with a **locking** interface of a coupling **device**. Thus, engaging a **locking** interface of the coupling **device** with the **locking** means of the cap such that the coupling **device** and the cap of the **container** are fixed is comprised. This provides a **secure** and reliable fastening means. Advantageously, the cap can be permanently fixed to the **container**, i.e. before, during and after draining, venting and/or washing the **container**. Further, such a **container** comprising the cap with the two **closure** inserts facilitates that upon disconnecting the **container** from a coupling **device** an automatic resealing of the **container** is caused. The **container** as presented herein facilitates the provision and use of a valuable closed transfer system for transferring the liquid from the **container**. Moreover, this embodiment of the invention provides for a reliable and cheap closing mechanism which is permanently fixed at the **container**.

Classifications:
International (IPC 8-9): B65D43/02 B65D45/02 B65D47/14 B67D1/08 B67D3/00 B67D7/02
CPC: B65D47/14 B65D47/143 B67D3/0032 B67D3/0051 B67D7/0288 B65D43/0277 B65D45/02 B67D1/0802
US: 220/254.1 220/254.2 220/254.7 222/1 285/124.1



Family:

Publication number	Publication date	Application number	Application date
AU2014307860 AA	20160303	AU20140307860	20140814
AU2014307860 BB	20180405	AU20140307860	20140814
BR112016002620 A2	20170801	BR20161102620	20140814
BR112016002689 A2	20170801	BR20161102689	20140814
BR112016002967 A2	20170801	BR20161102967	20140814
CA2920716 AA	20160208	CA20142920716	20140814
CA2920717 AA	20160208	CA20142920717	20140814
DE602014048219 D1	20190704	DE201460048219T	20140814
EP3033299 A1	20160622	EP20140752317	20140814
EP3033297 A1	20160622	EP20140752841	20140814
EP3033297 B1	20190612	EP20140752841	20140814
EP3033298 A1	20160622	EP20140755793	20140814
US2016185494 AA	20160630	US20140911153	20140814
US2016185588 AA	20160630	US20140911175	20140814
US2016194118 AA	20160707	US20140911820	20140814
US9963279 BB	20180508	US20140911820	20140814
WO15022395 A1	20150219	WO2014EP67404	20140814
WO15022396 A1	20150219	WO2014EP67405	20140814
WO15022402 A1	20150219	WO2014EP67424	20140814

Priority:

EP20130180477 20130814
EP20130180478 20130814
EP20130180473 20130814
EP20140172542 20140616
WO2014EP67404 20140814
WO2014EP67424 20140814
WO2014EP67405 20140814
EP20140752841 20140814
EP20140755793 20140814
EP20140752317 20140814

Probable Assignee: SCHOLLE IPN IP BV

Assignee(s): (std): BASF SE ; IPN IP BV ; SCHOLLE IPN IP BV

Assignee(s): GARNETT RICHARD ; HUBER ROBERT ; KROGER HARALD ; METCALF ROY ; SASTURAIN JUAN

Inventor(s): (std): GARNETT RICHARD ; HARALD KROEGER ; HARALD KROGER ; HUBER ROBERT ; JUAN SASTURAIN ; KROEGER HARALD ; KROGER HARALD ; METCALF ROY ; RICHARD GARNETT ; ROBERT HUBER ; ROY METCALF ; SASTURAIN JUAN

Agent(s): EP AND C; EXTER POLAK AND CHARLOUIS BV; JOVAN N; MAIWALD PATENTANWALTS GMBH; PHILLIPS

ORMONDE FITZPATRICK; ROBIC; VLADAN M; WATSON IP GROUP PLC

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2014307860 AA	20160303	LSPB	+	published / reissued	
AU2014307860 BB	20180405	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2014307860 BB	20180802	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2014307860 BB	20340814	PEXP		Calculated Patent Term Expiry	
BR112016002620 A2	20190611	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	Text: REFERENTE A 5A ANUIDADE.
BR112016002620 A2	20191001	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	Text: EM VIRTUDE DO ARQUIVAMENTO PUBLICADO NA RPI 2527 DE 11-06-2019 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDO O ARQUIVAMENTO DO PEDIDO DE PATENTE, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
BR112016002689 A2	20190611	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	Text: REFERENTE A 5A ANUIDADE.
BR112016002689 A2	20191001	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	Text: EM VIRTUDE DO ARQUIVAMENTO PUBLICADO NA RPI 2527 DE 11-06-2019 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDO O ARQUIVAMENTO DO PEDIDO DE PATENTE, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
BR112016002967 A2	20181106		B06F	OBJECTIONS, DOCUMENTS AND/OR TRANSLATIONS NEEDED AFTER AN EXAMINATION REQUEST ACCORDING ART. 34 INDUSTRIAL PROPERTY LAW	
BR112016002967 A2	20191231		B06U	PRELIMINARY REQUIREMENT: REQUESTS WITH SEARCHES PERFORMED BY OTHER PATENT OFFICES: SUSPENSION OF THE PATENT APPLICATION PROCEDURE	
BR112016002967 A2	20200623	LSRV	-B11B	DISMISSAL ACC. ART. 36, PAR 1 OF IPL - NO REPLY WITHIN 90 DAYS TO FULLFIL THE NECESSARY REQUIREMENTS	
CA2920716 AA	20160208	LSPB	+	published / reissued	
CA2920717 AA	20160208	LSPB	+	published / reissued	
EP3033297 A1	20160622	LSPB	+	published / reissued	

EP3033297 A1	20160622	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20160222
EP3033297 A1	20160622		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3033297 A1	20160622		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3033297 A1	20161123		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3033297 A1	20171018	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: SCHOLLE IPN IP B.V. PartyType: owner
EP3033297 A1	20180124	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20180102
EP3033297 A1	20180919	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20180821
EP3033297 A1	20190109		INTC	INTENTION TO GRANT ANNOUNCED (DELETED)	
EP3033297 A1	20190220	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20190122
EP3033297 A1	20190605	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PartyType: owner Owner: SCHOLLE IPN IP B.V.
EP3033297 B1	20190612	LSGT	+	granted / extensions (spc, cpc, pte)	
EP3033297 B1	20190612		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AL AT 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 SM TR
EP3033297 B1	20190612	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Ref country code: GB
EP3033297 B1	20190614	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: EP Ref country code: CH
EP3033297 B1	20190615	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 1142313 Ref legal event code: REF Ref country code: AT Kind code of Ref document: T Effective date: 20190615 Country of Ref document: AT
EP3033297 B1	20190704	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: R096 Ref document number: 602014048219 Ref country code: DE Country of Ref document: DE
EP3033297 B1	20190710	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP3033297 B1	20190807		REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FP Ref country code: NL
EP3033297 B1	20190930	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 6 Payment date: 20190827 Country of Ref document: NL
EP3033297 B1	20191025	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: LT Ref legal event code: MG4D
EP3033297 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: AL
EP3033297 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: FI

EP3033297 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP3033297 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190912 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP3033297 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: SE
EP3033297 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: HR
EP3033297 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190715 Year of fee payment: 6 Country of Ref document: DE
EP3033297 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP3033297 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190912 Country of Ref document: BG
EP3033297 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190913 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP3033297 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: RS
EP3033297 B1	20191231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 6 Payment date: 20190728 Country of Ref document: GB
EP3033297 B1	20200115	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: AT Ref legal event code: MK05 Ref document number: 1142313 Effective date: 20190612 Kind code of Ref document: T Country of Ref document: AT
EP3033297 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20191014 Country of Ref document: PT
EP3033297 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE

				FROM NATIONAL OFFICE TO EPO]	PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: RO
EP3033297 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP3033297 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP3033297 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: EE
EP3033297 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: SK
EP3033297 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: ES
EP3033297 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IT
EP3033297 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20191012 Country of Ref document: IS
EP3033297 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: SM
EP3033297 B1	20200313	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: R097 Ref document number: 602014048219 Ref country code: DE Country of Ref document: DE
EP3033297 B1	20200331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: TR
EP3033297 B1	20200501	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: DK
EP3033297 B1	20200501	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: PL

EP3033297 B1	20200520	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20200313
EP3033297 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MC
EP3033297 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190814 Country of Ref document: LU
EP3033297 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP3033297 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190831 Country of Ref document: LI
EP3033297 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190831 Country of Ref document: CH
EP3033297 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20200224 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP3033297 B1	20200529		REG	REFERENCE TO A NATIONAL CODE	Ref country code: BE Ref legal event code: MM Effective date: 20190831
EP3033297 B1	20200730		PG2D	INFORMATION ON LAPSE IN CONTRACTING STATE DELETED	
EP3033297 B1	20200731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190814 Country of Ref document: IE
EP3033297 B1	20200731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190831 Country of Ref document: FR
EP3033297 B1	20200831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20190831 Country of Ref document: BE
EP3033297 B1	20340814	PEXP		Calculated Patent Term Expiry	
EP3033298 A1	20160622	LSPB	+	published / reissued	
EP3033298 A1	20160622	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20160314
EP3033298 A1	20160622		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3033298 A1	20160622		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3033298 A1	20161123		DAX	REQUEST FOR	

				EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3033298 A1	20181003	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20180831
EP3033298 A1	20190612	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20190111
EP3033299 A1	20160622	LSPB	+	published / reissued	
EP3033299 A1	20160622	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20160314
EP3033299 A1	20160622		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3033299 A1	20160622		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3033299 A1	20161123		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3033299 A1	20190731	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20190301
US2016185494 AA	20160630	LSPB	+	published / reissued	
US2016185494 AA	20170403	LSES	NFA1	Non Final Action Mailed	
US2016185494 AA	20170608		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2016185494 AA	20170712	LSES	NFA1	Non Final Action Mailed	
US2016185494 AA	20171024		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2016185494 AA	20180124		FRM1	Final Rejection Mailed	
US2016185494 AA	20180806	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2016185494 AA	20180806		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US2016185588 AA	20160625		RFE1	Docketed New Case - Ready for Examination	
US2016185588 AA	20160630	LSPB	+	published / reissued	
US2016185588 AA	20181127	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2016185588 AA	20181127		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US2016194118 AA	20160707	LSPB	+	published / reissued	
US2016194118 AA	20160918		RFE1	Docketed New Case - Ready for Examination	
US2016194118 AA	20170710	LSES	NFA1	Non Final Action Mailed	
US2016194118 AA	20171016	LSAS	AS	ASSIGNMENT	Owner: SCHOLLE IPN IP BV, NETHERLANDS Effective date: 20160223 PartyType: owner OldParty: CHANGE OF NAME;ASSIGNOR:IPN IP BV;REEL/FRAME:044210/0344
US2016194118 AA	20180129	LSES	NAM1	Notice of Allowance Mailed --	

				Application Received in Office of Publications	
US2016194118 AA	20180402	LSFE	PPR1	Publications -- Issue Fee Payment Received	
US2016194118 AA	20180403	LSFE	PPV1	Publications -- Issue Fee Payment Verified	
US2016194118 AA	20180418	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US9963279 BB	20180418	LSGT	PAT1	Patented Case	
US9963279 BB	20180508	LSGT	+	granted / extensions (spc, cpc, pte)	
US9963279 BB	20340913	PEXP		Calculated Patent Term Expiry (PTA 30 days and a terminal disclaimer has been filed)	
WO15022395 A1	20150219	LSPB	+	published / reissued	
WO15022395 A1	20150401		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 14752841 Country of Ref document: EP
WO15022395 A1	20160212	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 14911820 Country of Ref document: US
WO15022395 A1	20160215	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO15022395 A1	20160222	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2014752841 Country of Ref document: EP
WO15022395 A1	20160303	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2014307860 Date of Ref document: 20140814 Kind code of Ref document: A Country of Ref document: AU
WO15022395 A1	20170131		REG	REFERENCE TO NATIONAL CODE	Ref legal event code: B01A Ref country code: BR Ref document number: 112016002967 Country of Ref document: BR
WO15022395 A1	20170801	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 112016002967 Kind code of Ref document: A2 Effective date: 20160212 Country of Ref document: BR
WO15022396 A1	20150219	LSPB	+	published / reissued	
WO15022396 A1	20150401		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Ref document number: 14755793 Kind code of Ref document: A1 Country of Ref document: EP
WO15022396 A1	20160208	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2920716 Country of Ref document: CA
WO15022396 A1	20160209	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 14911153 Country of Ref document: US
WO15022396 A1	20160215	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO15022396 A1	20160216		REG	REFERENCE TO NATIONAL CODE	Ref legal event code: B01A Ref country code: BR Ref document number: 112016002689 Country of Ref document: BR
WO15022396 A1	20160311	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2014755793 Country of Ref document: EP
WO15022396 A1	20170801	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Effective date: 20160205 Kind code of Ref document: A2

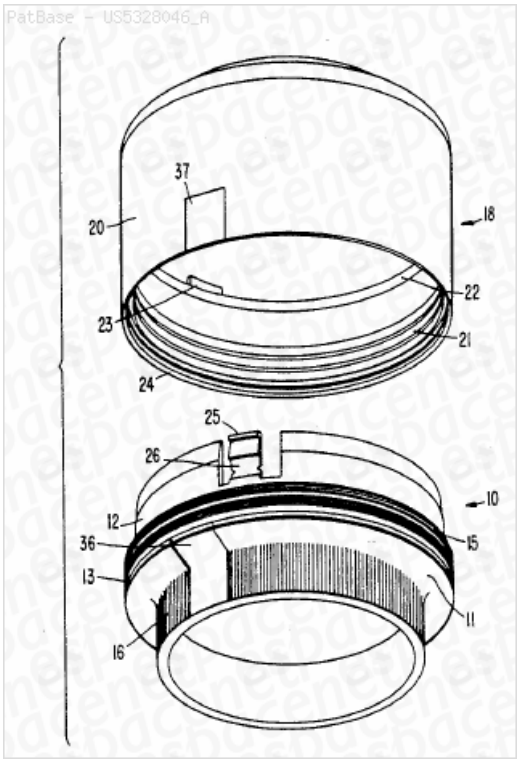
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WO15022402 A1	20150219	LSPB	+	published / reissued	
WO15022402 A1	20150401		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 14752317 Country of Ref document: EP
WO15022402 A1	20160208	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2920717 Country of Ref document: CA
WO15022402 A1	20160209	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 14911175 Country of Ref document: US
WO15022402 A1	20160215	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO15022402 A1	20160216		REG	REFERENCE TO NATIONAL CODE	Ref country code: BR Ref document number: 112016002620 Ref legal event code: B01A Country of Ref document: BR
WO15022402 A1	20160311	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2014752317 Country of Ref document: EP
WO15022402 A1	20170801	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A2 Effective date: 20160205 Ref document number: 112016002620 Country of Ref document: BR

59) Family number: 11627480 (US5328046 A)

Title: SELF-**LOCKING**, **TAMPER-EVIDENT** PACKAGE

Abstract: A high **security** **tamper evident** package for the shipping and storing of a variety of highly proprietary electronic components. The package has a lid and a multi-compartmented base which are threaded together to actively engage an automatic **locking** system enabled by breakaway tabs on the wall of the base sliding over and engaging behind ramps protruding from the inner surface of the lid. Upon unscrewing the base from the lid, the tabs break off as pressure is applied by movement against the back of the ramps, leaving permanent evidence of the package having been **opened**. A textured grip on the bottom of the package provides ease of handling and fits snugly onto a raised ring on the top of another package to allow for easy stacking and efficient storage.

Classifications:
International (IPC 8-9): B65D21/02 B65D55/02
International (IPC 1-7): B65D41/32
CPC: B65D21/022 B65D2401/10 B65D55/022
US: 206/509 215/252 215/253 220/214 220/265 220/266 220/4.02 220/4.21 220/402 220/421 220/553 220/556



Family:

Publication number	Publication date	Application number	Application date
US5328046 A	19940712	US19920932531	19920820

Priority:
US19920932531 19920820

Probable Assignee: US ARMY

Assignee(s): (std): US ARMY

Assignee(s): AS REPRESENTED BY DIRECTOR NATIONAL SECURITY AGENC ; DIRECTOR OF NATIONAL SECURITY AGENCY AS US GOV ; REPRESENTED BY DIRECTOR NATIONAL SECURITY AGENCY A ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE DIRECTOR OF THE NATIONAL SECURITY AGENCY

Inventor(s): (std): KUTZ KEVIN A ; PARTO STEVEN E

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
US5328046 A	19920820	LSAS	AS	ASSIGNMENT	Owner: UNITED STATES GOVERNMENT, THE, AS REPRESENTED BY T PartyType: owner Effective date: 19920731 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST.;ASSIGNORS:KUTZ, KEVIN A.;PARTO, STEVEN E.;REEL/FRAME:006256/0457
US5328046 A	19940712	LSGT	+	granted / extensions (spc, cpc, pte)	
US5328046 A	19970728	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5328046 A	20011116	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5328046 A	20060125		REMI	MAINTENANCE FEE REMINDER MAILED	
US5328046 A	20060712	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5328046 A	20060809	LSLE	-STCH	INFORMATION ON	Text: PATENT EXPIRED DUE TO

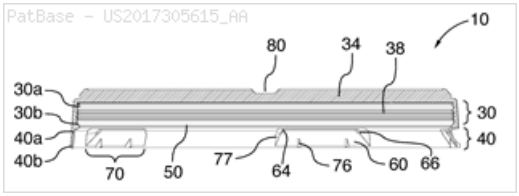
				STATUS: PATENT DISCONTINUATION	NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5328046 A	20060905	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20060712
US5328046 A	20120820	PEXP		Calculated Patent Term Expiry	

60) Family number: 62116793 (US2017305615 AA)

Title: **TAMPER EVIDENT** LID AND METHOD OF MAKING SAME

Abstract: A tamper resistant, push-on **closure** member for a **container**. The **closure** has a top cylindrical band portion, a bottom cylindrical band portion and a top cover. The top band has a plurality of continuous annular ridges extending inwardly along the circumference of its inner surface for contacting the side surface of the **container**. The bottom band has plurality of rigid teeth extending from a lower peripheral margin of the bottom band in an upward and inward direction for **locking** engagement against the lip of the **container**. The plurality of teeth are connected to a lower peripheral margin of the top band by a plurality of projections for providing a visual **tamper evident** indication. A plurality of tooth channels positioned between the lower margin of the top band and the upper margin of the bottom band for facilitating the flow of plastic resin during the production of the plurality of teeth.

Classifications:
International (IPC 8-9): B65D43/02 B65D55/02 B65D85/78
International (IPC 1-7): B65D55/02
CPC: B65D2543/00092 B65D2543/0024 B65D2543/00268 B65D2543/00296 B65D2543/00314 B65D2543/00527 B65D2543/00537 B65D2543/00638 B65D2543/00685 B65D2543/00759 B65D2543/00805 B65D2543/00842 B65D43/0262 B65D85/78
US: 1/1 220/276



Family:

Publication number	Publication date	Application number	Application date
AU2014408671 AA	20170525	AU20140408671	20141212
AU2014408671 BB	20171102	AU20140408671	20141212
AU2017232086 AA	20171012	AU20170232086	20170920
AU2017232086 BB	20180927	AU20170232086	20170920
BR112017006979 A2	20180109	BR20171106979	20141212
CA2963825 AA	20170406	CA20142963825	20141212
CA2963825 C	20180821	CA20142963825	20141212
CL2017000376 A1	20171103	CL20170000376	20170214
CO20170003463 A2	20170630	CO20170003463	20170410
CR20170126 A	20170519	CR20170000126	20141212
EP3204307 A1	20170816	EP20140903692	20141212
EP3204307 A4	20180912	EP20140903692	20141212
MX2017004377 A1	20170622	MX20170004377	20141212
PE06142017 A1	20170524	PE20170000577	20141212
PE20170614 A1	20170524	PE20170000577	20141212
US2017305615 AA	20171026	US20140516693	20141212
WO16054720 A1	20160414	WO2014CA51209	20141212

Priority:

US20140060730P 20141007 WO2014CA51209 20141212 AU20140408671 20141212
US20140516693 20141212 CL20170000376 20170214 AU20170232086 20170920

Probable Assignee: STANPAC INC

Assignee(s): (std): STANPAC INC

Assignee(s): PNC BANK CANADA BRANCH AGENT AS ; WITT STEPHEN HUGH

Inventor(s): (std): STEPHEN HUGH WITT ; WITT STEPHEN HUGH ; WITT STEVEN HUGH

Agent(s): ESTUDIO CAREY LTDA; HGF LTD; MAURICIO JARAMILLO CAMPUZANO; PHILLIPS ORMONDE FITZPATRICK; RIDOUT AND MAYBEE LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC 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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2014408671 AA	20170525	LSPB	+	published / reissued	
AU2014408671 BB	20171102	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2014408671 BB	20180301	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2014408671 BB	20341212	PEXP		Calculated Patent Term Expiry	
AU2017232086 AA	20171012	LSPB	+	published / reissued	
AU2017232086 BB	20180927	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2017232086 BB	20190124	LSGT	+FGA	LETTERS PATENT SEALED OR	

				GRANTED (STANDARD PATENT)	
AU2017232086 BB	20370920	PEXP		Calculated Patent Term Expiry	
BR112017006979 A2	20191231		B06U	PRELIMINARY REQUIREMENT: REQUESTS WITH SEARCHES PERFORMED BY OTHER PATENT OFFICES: SUSPENSION OF THE PATENT APPLICATION PROCEDURE	
CA2963825 AA	20170406	LSPB	+	published / reissued	
CA2963825 C	20180821	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2963825 C	20341212	PEXP		Calculated Patent Term Expiry	
CL2017000376 A1	20171103	LSPB	+	published / reissued	
CO20170003463 A2	20170630	LSPB	+	published / reissued	
CR20170126 A	20170519	LSPB	+	published / reissued	
EP3204307 A1	20170816	LSPB	+	published / reissued	
EP3204307 A1	20170816	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20170505
EP3204307 A1	20170816		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3204307 A1	20170816		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3204307 A1	20180110		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3204307 A1	20180425		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 43/02 20060101AFI20180319BHEP
EP3204307 A1	20180425		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 85/78 20060101ALN20180319BHEP
EP3204307 A4	20180912	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	Effective date: 20180810
EP3204307 A4	20180912		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 85/78 20060101ALN20180806BHEP
EP3204307 A4	20180912		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationSymbol: B65D 43/02 20060101AFI20180806BHEP ClassificationScheme: IPC
EP3204307 A4	20190731	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20190628
MX2017004377 A1	20170622	LSPB	+	published / reissued	
PE06142017 A1	20170524	LSPB	+	published / reissued	
PE20170614 A1	20170524	LSPB	+	published / reissued	
US2017305615 AA	20170516	LSAS	AS	ASSIGNMENT	Effective date: 20141024 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:WITT, STEPHEN HUGH;REEL/FRAME:042390/0414 Owner: STANPAC INC., CANADA PartyType: owner
US2017305615 AA	20170918	LSAS	AS	ASSIGNMENT	Owner: PNC BANK CANADA

					BRANCH, AS AGENT, CANADA PartyType: owner Effective date: 20170831 OldParty: SECURITY AGREEMENT;ASSIGNOR:STANPAC INC.;REEL/FRAME:043880/0305
US2017305615 AA	20171016		RFE1	Docketed New Case - Ready for Examination	
US2017305615 AA	20171026	LSPB	+	published / reissued	
US2017305615 AA	20180212	LSES	NFA1	Non Final Action Mailed	
US2017305615 AA	20180613	LSES	NFA2	Non Final Action Counted, Not Yet Mailed	
US2017305615 AA	20180615	LSES	NFA1	Non Final Action Mailed	
US2017305615 AA	20181010		FRM1	Final Rejection Mailed	
US2017305615 AA	20190314		RFE1	Docketed New Case - Ready for Examination	
US2017305615 AA	20190321		EQA1	Ex parte Quayle Action Mailed	
US2017305615 AA	20190321		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: EX PARTE QUAYLE ACTION MAILED
US2017305615 AA	20190926	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2017305615 AA	20190926		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
WO16054720 A1	20160414	LSPB	+	published / reissued	
WO16054720 A1	20161026		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 14903692 Country of Ref document: EP
WO16054720 A1	20170404	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/A/2017/004377 Country of Ref document: MX
WO16054720 A1	20170404	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 15516693 Country of Ref document: US
WO16054720 A1	20170405	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2017126 Country of Ref document: CR
WO16054720 A1	20170405	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: CR2017-000126 Country of Ref document: CR
WO16054720 A1	20170406	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2963825 Country of Ref document: CA
WO16054720 A1	20170407	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO16054720 A1	20170407	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 000577-2017 Country of Ref document: PE
WO16054720 A1	20170410	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: NC2017/0003463 Country of Ref document: CO
WO16054720 A1	20170418		REG	REFERENCE TO NATIONAL CODE	Ref country code: BR Ref legal event code: B01A Ref document number: 112017006979 Country of Ref document: BR
WO16054720 A1	20170505		+REEP	REQUEST FOR ENTRY INTO THE EUROPEAN PHASE	Ref document number: 2014903692 Country of Ref document: EP
WO16054720 A1	20170525	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 20141212

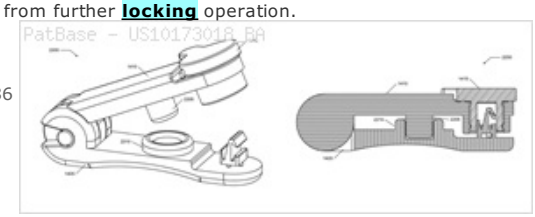
					Kind code of Ref document: A Ref document number: 2014408671 Country of Ref document: AU
WO16054720 A1	20180109	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Effective date: 20170405 Kind code of Ref document: A2 Ref document number: 112017006979 Country of Ref document: BR

61) Family number: 72727655 (US10173018 BA)

Title: TAMPER RESISTANT CLAMP

Abstract: A system and method for deterring potential illicit use of extended-installations of catheters associated with patient care. A pair of legs are moveably associated together to collectively define a needle-defeating pathway between a pair of scissoring, offset, pinching surfaces disposed on mating surfaces of the legs when the legs are closed and clamped to an indwelling catheter. A single-use **tamper evident** **locking** system both maintains the legs closed and provides **tamper evidence** when **opened**, such as by disabling the **locking** system from further **locking** operation.

Classifications:
International (IPC 8-9): A61M25/02 A61M25/06 A61M39/28 A61M5/168 A61M5/50
CPC: A61M2025/024 A61M25/02 A61M39/284 A61M5/50 A61M5/5086 A61M2205/276 A61M25/0606 A61M39/28 A61M5/16881
US: 1/1 604/250



Family:

Publication number	Publication date	Application number	Application date
US10173018 BA	20190108	US20150840280	20150831
US10688297 BB	20200623	US20180158021	20181011
US2019038891 AA	20190207	US20180158021	20181011

Priority:

US20140044574P 20140902 US20140068913P 20141027 US20150840280 20150831 US20180158021 20181011

Probable Assignee: RUCKER HAL

Assignee(s): (std): RUCKER HAL

Inventor(s): (std): RUCKER HAL

Agent(s): PATENT LAW OFFICES OF MICHAEL E WOODS; WOODS MICHAEL E

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US10173018 BA	20181219	LSGT	PAT1	Patented Case	
US10173018 BA	20181219	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US10173018 BA	20190108	LSGT	+	granted / extensions (spc, cpc, pte)	
US10173018 BA	20370221	PEXP		Calculated Patent Term Expiry (PTA 540 days)	
US10688297 BB	20181011	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: ENTITY STATUS SET TO UNDISCOUNTED (ORIGINAL EVENT CODE: BIG.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US10688297 BB	20181030	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: ENTITY STATUS SET TO SMALL (ORIGINAL EVENT CODE: SMAL); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US10688297 BB	20200623	LSGT	+	granted / extensions (spc, cpc, pte)	
US10688297 BB	20350831	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US2019038891 AA	20181031		APP1	Application Dispatched from Preexam, Not Yet Docketed	
US2019038891 AA	20190207	LSPB	+	published / reissued	
US2019038891 AA	20190306		RFE1	Docketed New Case - Ready for Examination	
US2019038891 AA	20190306		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: DOCKETED NEW CASE - READY FOR EXAMINATION
US2019038891 AA	20190930	LSES	NFA1	Non Final Action Mailed	
US2019038891 AA	20190930		STPP	INFORMATION ON	Text: NON FINAL ACTION

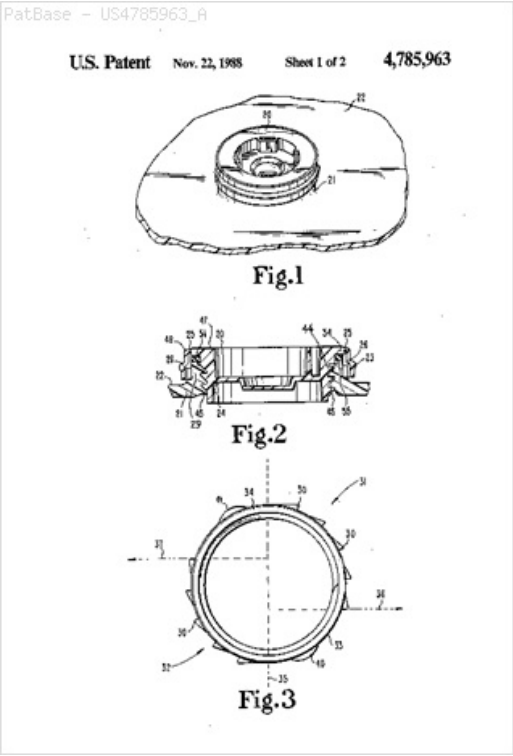
				STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	MAILED
US2019038891 AA	20191210		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2019038891 AA	20191210		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER
US2019038891 AA	20200317	LSES	NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2019038891 AA	20200317		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NOTICE OF ALLOWANCE MAILED -- APPLICATION RECEIVED IN OFFICE OF PUBLICATIONS
US2019038891 AA	20200518	LSFE	PPV1	Publications -- Issue Fee Payment Verified	
US2019038891 AA	20200518		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: PUBLICATIONS -- ISSUE FEE PAYMENT VERIFIED
US2019038891 AA	20200603	LSGT	PAT1	Patented Case	
US2019038891 AA	20200603	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE

62) Family number: 2760546 (US4785963 A)

Title: **TAMPER-EVIDENT** BUTTRESS PLUG **CLOSURE**

Abstract: A **tamper-evident** buttress plug for sealing closed a plastic 55-gallon drum includes a plug body which is externally threaded and compatible with the internally threaded **container** outlet, a ratchet ring which includes a circumferentially distributed series of ratchet teeth on its inner surface and a series of four frangible elements which initially integrally join the ratchet ring to the plug body. The **container** outlet has neck which is configured with two spaced series of ratchet teeth which are of a size and configuration so as to be mutually engageable with the ratchet teeth on the **closure** ring. As the **closure** is threadedly advanced into the outlet, threaded engagement is first achieved and then ratchet engagement. When it is time for the **closure** to be removed from the **container**, the frangible elements must be severed so as to separate the ring and the plug body. In view of the fact that the 55-gallon plastic drum is blow-molded by split-block technique, it is necessary for the two series of ratchet teeth on the **container** outlet to be less than 180 degrees in their circumferential extent thus leaving spaces between the series. In order to prevent compression of the ring by squeezing inwardly at the location of these two spaces, semi-circular raised protuberances are provided in order to prevent ovalizing and an ability to disengage the ratchet teeth.

Classifications:
International (IPC 8-9): B65D39/00 B65D39/08 B65D55/02
International (IPC 1-7): B65D39/08 B65D41/34 B65D55/02 B65D55/12
CPC: B65D39/088 B65D55/022
US: 215/252 220/266 220/284



Family:

Publication number	Publication date	Application number	Application date
AT99627 E	19940115	AT19880201659T	19880801
AU198820270 A1	19890713	AU19880020270	19880801
AU600846 B2	19900823	AU19880020270	19880801
BRPI8804224 A	19900410	BR1988PI04224	19880819
CA1305100 A1	19920714	CA19880576136	19880831
DE3886914 D1	19940217	DE19883886914T	19880801
DE3886914 T2	19940428	DE19883886914T	19880801
EP0324196 A2	19890719	EP19880201659	19880801
EP0324196 A3	19900801	EP19880201659	19880801
EP0324196 B1	19940105	EP19880201659	19880801
JP1182264 A2	19890720	JP19880213492	19880827
MX166314 B	19921229	MX19880012843	19880826
US4785963 A	19881122	US19880142510	19880111
ZA8805848 A	19890426	ZA19880005848	19880809

Priority:
US19880142510 19880111 EP19880201659 19880801 CA19880576136 19880831

Probable Assignee: RIEKE A CORP OF IN CORP

Assignee(s): (std): RIEKE CORP

Assignee(s): CHASE MANHATTAN BANK AS COLLATERAL AGENT ; CHASE MANHATTAN BANK COLLATERAL AGENT AS ; MAGLEY ROBERT E ; MASCOTECH INC ; METALDYNE CORP ; METALDYNE F K A MASCOTECH INC CORP ; RIEKE A CORP OF IN CORP ; RIEKE CORP AUBURN IND US ; RIIKU CORP

Inventor(s): (std): MAGLEY ROBERT E ; MAGLEY ROBERTO E ; ROBAATO II MAGUREI ; ROBERT E MAGLEY

Inventor(s): ROBERTO E MAGLEY

Agent(s): ASPEN PHARMA PTY LTD; SMART AND BIGGAR; SPRUSON AND FERGUSON

Designated states: AT BE CH DE ES FR GB IT LI LU NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT99627 E	19940115	LSGT	+	granted / extensions (spc, cpc, pte)	
AT99627 E	19941015	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT99627 E	20020515	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT99627 E	20080801	PEXP		Calculated Patent Term Expiry	
AU198820270 A1	19890713	LSPB	+	published / reissued	
AU600846 B2	19900823	LSGT	+	granted / extensions (spc, cpc, pte)	
AU600846 B2	20020307	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU600846 B2	20080801	PEXP		Calculated Patent Term Expiry	
BRPI8804224 A	19900410	LSPB	+	published / reissued	
BRPI8804224 A	19951024	LSLE	-MM	LAPSE DUE TO NON-PAYMENT OF FEES (ART. 50)	
CA1305100 A1	19920714	LSGT	+	granted / extensions (spc, cpc, pte)	
CA1305100 A1	20020715	LSLE	-MKLA	LAPSED	
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DE3886914 T2	19940428	LSGT	+	granted / extensions (spc, cpc, pte)	
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DE3886914 T2	20020926	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
EP0324196 A2	19890719	LSPB	+	published / reissued	
EP0324196 A2	19890719		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE CH DE ES FR GB IT LI LU NL SE
EP0324196 A3	19900801		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A3 Country of Ref document: AT BE CH DE ES FR GB IT LI LU NL SE
EP0324196 A3	19901107	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19900914
EP0324196 A3	19921028	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 19920910
EP0324196 B1	19940105	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0324196 B1	19940105		+AK	DESIGNATED	Kind code of Ref document: B1

				CONTRACTING STATES	Country of Ref document: AT BE CH DE ES FR GB IT LI LU NL SE
EP0324196 B1	19940105	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19940105 NotificationOfLapse: THE PATENT HAS BEEN ANNULLED BY A DECISION OF A NATIONAL AUTHORITY Country of Ref document: ES
EP0324196 B1	19940105		REF	CORRESPONDS TO:	Ref document number: 99627 Date of Ref document: 19940115 Kind code of Ref document: T Country of Ref document: AT
EP0324196 B1	19940211		+ET	FR: TRANSLATION FILED	
EP0324196 B1	19940217		REF	CORRESPONDS TO:	Date of Ref document: 19940217 Ref document number: 3886914 Country of Ref document: DE
EP0324196 B1	19940325		+ITF	IT: TRANSLATION FOR A EP PATENT FILED	Owner: STUDIO INGG. FISCHETTI & WEBER PartyType: owner
EP0324196 B1	19940831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 19940831 Country of Ref document: LU
EP0324196 B1	19941228	LSGT	+26N	NO OPPOSITION FILED	
EP0324196 B1	19950131	LSGT	+EAL	SE: EUROPEAN PATENT IN FORCE IN SWEDEN	Text: 88201659.5 Ref country code: EP
EP0324196 B1	20000726	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20000726 Country of Ref document: GB
EP0324196 B1	20000729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20000729 Country of Ref document: DE
EP0324196 B1	20000804	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20000804 Year of fee payment: 13 Country of Ref document: SE
EP0324196 B1	20000811	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20000811 Country of Ref document: FR
EP0324196 B1	20000814	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20000814 Country of Ref document: CH
EP0324196 B1	20000816	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20000816 Year of fee payment: 13 Country of Ref document: AT
EP0324196 B1	20000831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE	Payment date: 20000831 Year of fee payment: 13 Country of Ref document: NL

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EP0324196 B1	20001025	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20001025 Year of fee payment: 13 Country of Ref document: BE
EP0324196 B1	20010801	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20010801 Country of Ref document: AT
EP0324196 B1	20010801	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20010801 Country of Ref document: GB
EP0324196 B1	20010802	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20010802 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: SE
EP0324196 B1	20010831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20010831 Country of Ref document: BE
EP0324196 B1	20010831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20010831 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP0324196 B1	20010831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20010831 Country of Ref document: LI
EP0324196 B1	20020228	LSLE	-BERE	BE: LAPSED	PartyType: owner Effective date: 20010831 Owner: RIEKE CORP. Ref country code: EP
EP0324196 B1	20020301	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20020301 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: NL
EP0324196 B1	20020327	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20010801 Ref country code: EP
EP0324196 B1	20020402	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	Ref country code: EP Text: 88201659.5
EP0324196 B1	20020415	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP0324196 B1	20020430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20020430 Country of Ref document: FR

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EP0324196 B1	20020501	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	Ref country code: EP Effective date: 20020301
EP0324196 B1	20020501	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20020501 Country of Ref document: DE
EP0324196 B1	20020621	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: ST
EP0324196 B1	20050801	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20050801 Country of Ref document: IT
EP0324196 B1	20050801	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20050801 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES;WARNING: LAPSES OF ITALIAN PATENTS WITH EFFECTIVE DATE BEFORE 2007 MAY HAVE OCCURRED AT ANY TIME BEFORE 2007. THE CORRECT EFFECTIVE DATE MAY BE DIFFERENT FROM THE ONE RECORDED. Country of Ref document: IT
EP0324196 B1	20080801	PEXP		Calculated Patent Term Expiry	
JP1182264 A2	19890720	LSPB	+	published / reissued	
MX166314 B	19921229	LSGT	+	granted / extensions (spc, cpc, pte)	
MX166314 B	20061229	PEXP		Calculated Patent Term Expiry	
US4785963 A	19880318	LSAS	AS	ASSIGNMENT	Owner: RIEKE CORPORATION, 500 WEST SEVENTH STREET, AUBURN OldParty: ASSIGNMENT OF ASSIGNORS INTEREST.;ASSIGNOR:MAGLEY, ROBERT E.;REEL/FRAME:004836/0952 PartyType: owner Effective date: 19880105
US4785963 A	19880318	LSAS	AS	ASSIGNMENT	Owner: RIEKE CORPORATION, A CORP. OF IN,INDIANA PartyType: owner OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:MAGLEY, ROBERT E.;REEL/FRAME:004836/0952 Effective date: 19880105
US4785963 A	19880916	LSGT	PAT1	Patented Case	
US4785963 A	19880916	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US4785963 A	19881122	LSGT	+	granted / extensions (spc, cpc, pte)	
US4785963 A	19890418	LSRE	CC	CERTIFICATE OF CORRECTION	
US4785963 A	19911202	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US4785963 A	19960520	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US4785963 A	20000502	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US4785963 A	20010124	LSAS	AS	ASSIGNMENT	OldParty: SECURITY INTEREST;ASSIGNOR:MASCOTECH, INC.;REEL/FRAME:011457/0321 Effective date: 20001128 PartyType: owner Owner: CHASE MANHATTAN BANK, AS COLLATERAL AGENT, THE, NE

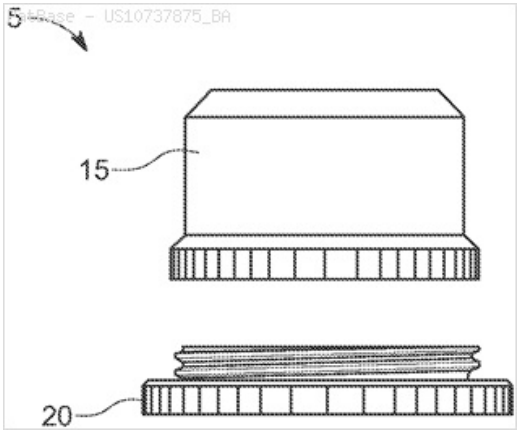
US4785963 A	20020820	LSAS	AS	ASSIGNMENT	OldParty: RELEASE;ASSIGNOR:JPMORGAN CHASE BANK (F/K/A THE CHASE MANHATTAN BANK) AS COLLATERAL AGENT;REEL/FRAME:013169/0624 Owner: METALDYNE CORPORATION (F/K/A MASCOTECH, INC.), MIC PartyType: owner Effective date: 20020808
US4785963 A	20070207	LSAS	AS	ASSIGNMENT	Owner: MASCOTECH, INC., MICHIGAN OldParty: TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENT RIGHTS;ASSIGNOR:JPMORGAN CHASE BANK, N.A. (F/K/A THE CHASE MANHATTAN BANK), AS COLLATERAL AGENT;REEL/FRAME:018861/0449 Effective date: 20070111 PartyType: owner
US4785963 A	20080111	PEXP		Calculated Patent Term Expiry	
ZA8805848 A	19890426	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA8805848 A	20080808	PEXP		Calculated Patent Term Expiry	

63) Family number: 80411102 (US10737875 BA)

Title: **CLOSURE** ASSEMBLY FOR USE WITH A **CONTAINER**

Abstract: The presently disclosed subject matter is directed to a **closure** assembly for use with a **container** (e.g., an aerosol can). The **closure** assembly includes a skirt and a protective cap. In some embodiments, a **lock** feature temporarily attaches the protective cap to the **container** and increases a force required for a user to remove the protective cap. In some embodiments, an inner **lock** **opening** of the skirt is configured to be registered with an outer **lock** **opening** to receive a **locking** element therethrough. In some embodiments, a set screw is positioned in the skirt to selectively allow or inhibit relative rotation between the skirt and the protective cap. In some embodiments, a biasing element selectively allows or inhibits engagement of threads of the protective cap with the threads of the skirt depending upon application of an axial force to overcome a biasing force of the biasing element.

Classifications:
International (IPC 8-9): B65D41/08 B65D83/40
CPC: B65D41/083 B65D83/40



Family:

Publication number	Publication date	Application number	Application date
US10737875 BA	20200811	US20200751170	20200123

Priority:
US20200751170 20200123

Probable Assignee: FOUR STRONG IP LLC
Assignee(s): (std): FOUR STRONG IP LLC
Inventor(s): (std): ABELS DAVID ; BOGGS JOSHUA ; CHANG ISAAC ; HARBURG MARK ; SMITH TODD L

Legal status (INPADOC)

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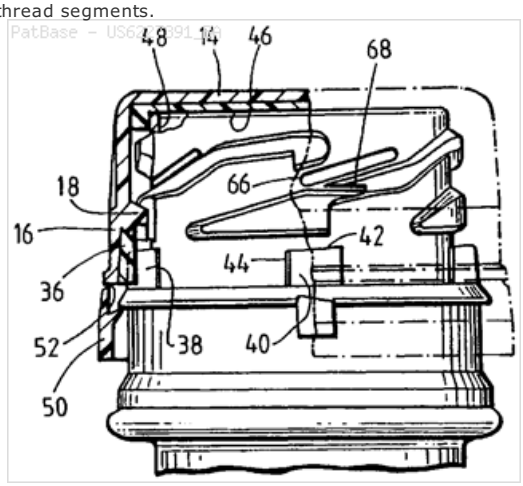
Patent	Date recorded	Event group	Code	Event	Details
US10737875 BA	20200123	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: ENTITY STATUS SET TO UNDISCOUNTED (ORIGINAL EVENT CODE: BIG.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US10737875 BA	20200211	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: ENTITY STATUS SET TO SMALL (ORIGINAL EVENT CODE: SMAL); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US10737875 BA	20200722	LSGT	PAT1	Patented Case	
US10737875 BA	20200811	LSGT	+	granted / extensions (spc, cpc, pte)	
US10737875 BA	20400123	PEXP		Calculated Patent Term Expiry	

64) Family number: 20687432 (US6227391 BA)

Title: **CLOSURE** ASSEMBLY FOR PRESSURIZED **CONTAINERS**

Abstract: A **container** **closure** assembly that includes a **container** neck having an **opening** and a **closure** for the **container** neck, wherein the **closure** has a base portion and a skirt portion. A first screw thread on one of the **container** neck and the **closure**, the first screw thread comprising one or more first thread segments and a second screw thread on the other of the **container** neck and the **closure**, the second screw thread having a plurality of second thread segments, each of the second thread segment including upper and lower thread surfaces. A seal that forms a seal between the **container** neck and **closure** when the **closure** is screwed down on the **container** neck. Mutually engageable elements on the **container** neck and **closure** to block or restrict rotation of the **closure** in an unscrewing direction beyond an intermediate position when the **closure** is under an axial pressure in a direction emerging from the **container** neck. The **container** neck and **closure** are constructed and arranged to provide a vent for venting gas from the **container** neck at least when the **closure** is in the intermediate position and the vent includes a recess in the other of the **container** neck and **closure**. The recess being located between and circumferentially overlapping two of the plurality of second thread segments to increase the cross-sectional area of the vent between the second thread segments.

Classifications:
International (IPC 8-9): B65D41/04 B65D51/16
International (IPC 1-7): B65D B65D4/136 B65D41/04 B65D41/36 B65D5/116 B65D51/16
CPC: B65D41/0471 B65D51/1688
US: 215/307 215/330 215/332



Family:

Publication number	Publication date	Application number	Application date
AT214023 E	20020315	AT19980946604T	19981009
AU199893604 A1	19990503	AU19980093604	19981009
AU740975 B2	20011115	AU19980093604	19981009
BRPI9812759 A	20000829	BR1998PI12759	19981009
CA2305445 AA	20000330	CA19982305445	19981009
CA2305445 C	20061205	CA19982305445	19981009
CN1103726 C	20030326	CN19988011808	19981009
CN1280543 A	20010117	CN19988011808	19981009
DE69804123 D1	20020411	DE19986004123T	19981009
DE69804123 T2	20020829	DE19986004123T	19981009
DK1021352 T3	20020429	DK19980946604T	19981009
EP1021352 A1	20000726	EP19980946604	19981009
EP1021352 B1	20020306	EP19980946604	19981009
ES2173622 T3	20021016	ES19980946604T	19981009
GB2330133 A1	19990414	GB19970021568	19971010
GB2330133 B2	20011107	GB19970021568	19971010
GB9721568 A0	19971210	GB19970021568	19971010
HK1027078 A1	20020726	HK20000106240	20000929
JP2001519299 T2	20011023	JP20000515810T	19981009
PT1021352 T	20020628	PT19980946604T	19981009
RU2000111470 A	20020420	RU20000111470	19981009
RU2213683 C2	20031010	RU20000111470	19981009
US6227391 BA	20010508	US20000529317	20000612
WO9919228 A1	19990422	WO1998GB03040	19981009

Priority:
GB19970021568 19971010 WO1998GB03040 19981009

Probable Assignee: BEESON AND SONS LTD

Assignee(s): (std): BEESON AND SONS LTD ; BISAN EHND SANZ LIMITED ; BISAN EHND SANZ LTD ; KING ROGER MILNER

Assignee(s): BEESON AND SONS LIMITED ; BEESON AND SONS LTD RICKMANSWORTH

Inventor(s): (std): KING R M ; KING RODZHER MILNER ; KING ROGER MILNER

Inventor(s): R M KING ; ROGER MILNER KING

Agent(s): BRINKS HOFER GILSON AND LIONE; FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; GOWLING LAFLEUR HENDERSON LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT214023 E	20020315	LSGT	+	granted / extensions (spc, cpc, pte)	
AT214023 E	20020615	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT214023 E	20100715	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT214023 E	20181009	PEXP		Calculated Patent Term Expiry	
AU199893604 A1	19990503	LSPB	+	published / reissued	
AU740975 B2	20011115	LSGT	+	granted / extensions (spc, cpc, pte)	
AU740975 B2	20020314	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU740975 B2	20181009	PEXP		Calculated Patent Term Expiry	
BRPI9812759 A	20000829	LSPB	+	published / reissued	
BRPI9812759 A	20060801		B06A	NOTIFICATION TO APPLICANT TO REPLY TO THE REPORT FOR NON-PATENTABILITY OR INADEQUACY OF THE APPLICATION ACCORDING ART. 36 INDUSTRIAL PATENT LAW	
BRPI9812759 A	20061121		B06A	NOTIFICATION TO APPLICANT TO REPLY TO THE REPORT FOR NON-PATENTABILITY OR INADEQUACY OF THE APPLICATION ACCORDING ART. 36 INDUSTRIAL PATENT LAW	
BRPI9812759 A	20070306	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI9812759 A	20070828	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	Text: PRAZO DE VALIDADE: 20 (VINTE) ANOS CONTADOS A PARTIR DE 09/10/1998, OBSERVADAS AS CONDICOES LEGAIS.
BRPI9812759 A	20110809	LSFE	B24C	PATENT ANNUAL FEE: REQUEST FOR FOR RESTORATION	Text: REFERENTE A 12A E 13A ANUIDADES.
BRPI9812759 A	20140422	LSLE	-B24H	LAPSE BECAUSE OF NON-PAYMENT OF ANNUAL FEES (DEFINITIVELY: ART 78 IV LPI)	
CA2305445 AA	20000330	LSPB	+	published / reissued	
CA2305445 AA	20021114	LSES	+EEER	EXAMINATION REQUEST	
CA2305445 C	20061205	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2305445 C	20101012	LSLE	-MKLA	LAPSED	
CA2305445 C	20181009	PEXP		Calculated Patent Term Expiry	
CN1103726 C	20030326	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1103726 C	20030326	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1103726 C	20110105	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN1103726 C	20181009	PEXP		Calculated Patent Term Expiry	
CN1280543 A	20010117	LSPB	+	published / reissued	
CN1280543 A	20010117	LSPB	+C06	PUBLICATION	
CN1280543 A	20010124		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
DE69804123 D1	20030403	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69804123 D1	20040129		8328	CHANGE IN THE	PartyType: representative

				PERSON/NAME/ADDRESS OF THE AGENT	Representative: VONNEMANN, KLOIBER & KOLLEGEN, 80796 MÜNCHEN
DE69804123 D1	20100819	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69804123 T2	20020829	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69804123 T2	20030403	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69804123 T2	20040129		8328	CHANGE IN THE PERSON/NAME/ADDRESS OF THE AGENT	PartyType: representative Representative: VONNEMANN, KLOIBER & KOLLEGEN, 80796 MÜNCHEN
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DE69804123 T2	20181009	PEXP		Calculated Patent Term Expiry	
DK1021352 T3	20020429	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1021352 T3	20181009	PEXP		Calculated Patent Term Expiry	
EP1021352 A1	20000726	LSPB	+	published / reissued	
EP1021352 A1	20000726	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20000505
EP1021352 A1	20000726		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
EP1021352 A1	20010502	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20010314
EP1021352 A1	20020101		REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: IF02
EP1021352 A1	20020306		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
EP1021352 A1	20020306		REF	CORRESPONDS TO:	Date of Ref document: 20020315 Kind code of Ref document: T Ref document number: 214023 Country of Ref document: AT
EP1021352 A1	20020315		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: CH Ref legal event code: NV Representative: PATENTANWAELTE SCHAAD, BALASS, MENZL & PARTNER AG
EP1021352 A1	20020315	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP1021352 A1	20020411		REF	CORRESPONDS TO:	Date of Ref document: 20020411 Ref document number: 69804123 Country of Ref document: DE
EP1021352 A1	20020429		REG	REFERENCE TO A NATIONAL CODE	Ref country code: DK Ref legal event code: T3
EP1021352 A1	20020614		+ET	FR: TRANSLATION FILED	
EP1021352 A1	20020628		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20020313 Ref country code: PT Ref legal event code: SC4A Text: AVAILABILITY OF NATIONAL TRANSLATION
EP1021352 A1	20020926	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GR Ref document number: 20020402246 Ref legal event code: EP Country of Ref document: GR
EP1021352 A1	20021016	LSGT	REG	REFERENCE TO A NATIONAL CODE	Kind code of Ref document: T3 Ref country code: ES Ref document number: 2173622 Ref legal event code: FG2A Country of Ref document: ES
EP1021352 A1	20021031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20021031 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP1021352 A1	20030226	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20021209
EP1021352 A1	20081031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20080916 Year of fee payment: 11 Country of Ref document: PT

EP1021352 A1	20081128	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081005 Year of fee payment: 11 Country of Ref document: NL
EP1021352 A1	20090130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081016 Year of fee payment: 11 Country of Ref document: CH
EP1021352 A1	20090130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081014 Year of fee payment: 11 Country of Ref document: DE
EP1021352 A1	20090130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081013 Year of fee payment: 11 Country of Ref document: DK
EP1021352 A1	20090130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081015 Year of fee payment: 11 Country of Ref document: IE
EP1021352 A1	20090130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081016 Year of fee payment: 11 Country of Ref document: LU
EP1021352 A1	20090130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081002 Year of fee payment: 11 Country of Ref document: MC
EP1021352 A1	20090227	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081013 Year of fee payment: 11 Country of Ref document: AT
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EP1021352 A1	20090331	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081029 Year of fee payment: 11 Country of Ref document: IT
EP1021352 A1	20090331	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081022 Year of fee payment: 11 Country of Ref document: SE
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EP1021352 A1	20090430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20081014 Year of fee payment: 11 Country of Ref document: FR
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EP1021352 A1	20090630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20080919 Year of fee payment: 11 Country of Ref document: GR
EP1021352 A1	20100420	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20100409 Ref country code: PT Ref legal event code: MM4A Text: LAPSE DUE TO NON-PAYMENT OF FEES
EP1021352 A1	20100430	LSLE	-BERE	BE: LAPSED	Effective date: 20091031 Owner: *BEESON AND SONS LTD PartyType: owner Ref country code: EP
EP1021352 A1	20100526	LSLE	REG	REFERENCE TO A	Effective date: 20100501

				NATIONAL CODE	Ref country code: NL Ref legal event code: V1
EP1021352 A1	20100531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP1021352 A1	20100531	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP1021352 A1	20100602	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	Ref country code: EP
EP1021352 A1	20100607	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DK Ref legal event code: EBP
EP1021352 A1	20100721	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP1021352 A1	20100723	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20100630 Ref country code: FR Ref legal event code: ST
EP1021352 A1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20100501 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DE
EP1021352 A1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091102 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FR
EP1021352 A1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20100501 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: NL
EP1021352 A1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20100409 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PT
EP1021352 A1	20100831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091009 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: AT
EP1021352 A1	20100831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091009 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FI
EP1021352 A1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP1021352 A1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP1021352 A1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20100504 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GR
EP1021352 A1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091009 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP1021352 A1	20101029	LSLE	-PG25	LAPSED IN A	Lapsed date: 20091031

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EP1021352 A1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091009 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GB
EP1021352 A1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DK
EP1021352 A1	20110331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091009 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IT
EP1021352 A1	20110401	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110401 Ref country code: ES Ref legal event code: FD2A
EP1021352 A1	20110429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091009 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1021352 A1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091010 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: SE
EP1021352 A1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110321 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: ES
EP1021352 A1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091010 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: ES
EP1021352 B1	20020306	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1021352 B1	20181009	PEXP		Calculated Patent Term Expiry	
ES2173622 T3	20021016	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2173622 T3	20021016	LSGT	+FG2A	DEFINITIVE PROTECTION	Ref document number: 1021352 Country of Ref document: ES
ES2173622 T3	20181009	PEXP		Calculated Patent Term Expiry	
GB2330133 A1	19990414	LSPB	+	published / reissued	
GB2330133 B2	20011107	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2330133 B2	20031015	LSRV	-773K	PATENT REVOKED UNDER SECT. 73(2)/1977	Text: PATENT REVOKED ON 20030919
GB2330133 B2	20171010	PEXP		Calculated Patent Term Expiry	
HK1027078 A1	20020726	LSPB	+	published / reissued	
HK1027078 A1	20041215	LSFE	+PF	PATENT IN FORCE	
HK1027078 A1	20100528	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	Effective date: 20091009
HK1027078 A1	20200929	PEXP		Calculated Patent Term Expiry	
JP2001519299 T2	20011023	LSPB	+	published / reissued	

JP2001519299 T2	20051007	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20051006 Text: JAPANESE INTERMEDIATE CODE: A621
JP2001519299 T2	20080123	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20080122 Text: JAPANESE INTERMEDIATE CODE: A131
JP2001519299 T2	20080417		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Effective date: 20080416 Text: JAPANESE INTERMEDIATE CODE: A601
JP2001519299 T2	20080424		A602	WRITTEN PERMISSION OF EXTENSION OF TIME	Effective date: 20080423 Text: JAPANESE INTERMEDIATE CODE: A602
JP2001519299 T2	20080521		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Effective date: 20080520 Text: JAPANESE INTERMEDIATE CODE: A601
JP2001519299 T2	20080528		A602	WRITTEN PERMISSION OF EXTENSION OF TIME	Effective date: 20080527 Text: JAPANESE INTERMEDIATE CODE: A602
JP2001519299 T2	20080611	LSRE	A524	WRITTEN SUBMISSION OF COPY OF AMENDMENT UNDER SECTION 19 (PCT)	Effective date: 20080610 Text: JAPANESE INTERMEDIATE CODE: A524
JP2001519299 T2	20090527	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20090526 Text: JAPANESE INTERMEDIATE CODE: A131
JP2001519299 T2	20091105	LSRV	-A02	DECISION OF REFUSAL	Effective date: 20091104 Text: JAPANESE INTERMEDIATE CODE: A02
PT1021352 T	20020628	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1021352 T	20181009	PEXP		Calculated Patent Term Expiry	
RU2000111470 A	20020420	LSPB	+	published / reissued	
RU2213683 C2	20031010	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2213683 C2	20100927	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	Effective date: 20091010
RU2213683 C2	20181009	PEXP		Calculated Patent Term Expiry	
US6227391 BA	20000612	LSAS	AS	ASSIGNMENT	Effective date: 20000605 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KING, ROGER MILNER;REEL/FRAME:010873/0391 Owner: BEESON AND SONS LIMITED, UNITED KINGDOM PartyType: owner
US6227391 BA	20010508	LSGT	+	granted / extensions (spc, cpc, pte)	
US6227391 BA	20020326	LSRE	CC	CERTIFICATE OF CORRECTION	
US6227391 BA	20040922	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6227391 BA	20081009	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6227391 BA	20121217		REMI	MAINTENANCE FEE REMINDER MAILED	
US6227391 BA	20130508	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6227391 BA	20130603	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6227391 BA	20130603	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6227391 BA	20130625	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20130508
US6227391 BA	20200612	PEXP		Calculated Patent Term Expiry	
WO9919228 A1	19981009	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 98811808.4 Country of Ref document: CN
WO9919228 A1	19990422	LSPB	+	published / reissued	
WO9919228 A1	19990422		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW

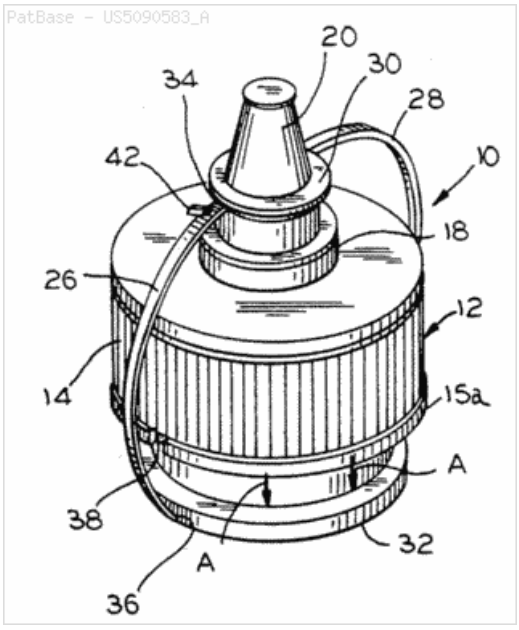
WO9919228 A1	19990422		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AM AT AZ BE BF BJ BY CF CG CH CI CM CY DE DK ES FI FR GA GB GH GM GN GR GW IE IT KE KG KZ LS LU MC MD ML MR MW NE NL PT RU SD SE SN SZ TD TG TJ TM UG ZW
WO9919228 A1	19990623		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO9919228 A1	19990701		DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO9919228 A1	20000330	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2305445 Country of Ref document: CA
WO9919228 A1	20000330	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2305445 Country of Ref document: CA
WO9919228 A1	20000410	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: KR
WO9919228 A1	20000505	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1998946604 Country of Ref document: EP
WO9919228 A1	20000508	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 93604/98 Country of Ref document: AU
WO9919228 A1	20000612	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 09529317 Country of Ref document: US
WO9919228 A1	20000726	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1998946604 Country of Ref document: EP
WO9919228 A1	20000810	LSWD	REG	REFERENCE TO NATIONAL CODE	Ref country code: DE Ref legal event code: 8642
WO9919228 A1	20020228	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 93604/98 Country of Ref document: AU
WO9919228 A1	20020306	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 1998946604 Country of Ref document: EP

65) Family number: 4936787 (US5090583 A)

Title: **TAMPER-EVIDENT**, TAMPER-RESISTANT **CLOSURE**

Abstract: A **tamper-evident**, tamper-resistant **closure** for an **open** neck **container** having a detachable **closure** cap that is adapted to **open** and close the dispenser end. A breakaway tether is integrally molded to the **closure** cap and a first **closure** ring which fits within the **closure** cap and around the **container** neck. A second tether is integrally formed with the **closure** cap and a second **closure** ring. The breakaway tether will rupture if this **container** is tampered with. Also the breakaway tether may be broken when the contents of the **container** is to be used. The second tether **securely** maintains the **closure** cap attached to the main **closure**.

Classifications:
International (IPC 8-9): B65D47/12 B65D47/14 B65D55/02
International (IPC 1-7): B65D41/32 B65D55/16
CPC: B65D2401/15 B65D47/147 B65D55/024
US: 215/250 215/253 215/306 220/265 220/266 220/375 D9/446



Family:

Publication number	Publication date	Application number	Application date
US5090583 A	19920225	US19910675696	19910327

Priority:
US19910675696 19910327

Probable Assignee: MAGENTA LLC
Assignee(s): (std): MAGENTA CORP
Assignee(s): BANK OF AMERICA NA ; BIORELIANCE VIRAL MFG ; HARRIS NA ; MAGENTA LLC
Inventor(s): (std): HOFFMAN RICHARD W ; ILLENBERGER MICHAEL ; KINSLEY JOHN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5090583 A	19920114	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST.;ASSIGNORS:HOFMANN, RICHARD W.;KINSLEY, JOHN;ILLENBERGER, MICHAEL;REEL/FRAME:005970/0903;SIGNING DATES FROM 19910910 TO 19910913 Owner: MAGENTA CORPORATION PartyType: owner
US5090583 A	19920211	LSGT	PAT1	Patented Case	
US5090583 A	19920225	LSGT	+	granted / extensions (spc, cpc, pte)	
US5090583 A	19950525	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5090583 A	19990802	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5090583 A	20030910		REMI	MAINTENANCE FEE REMINDER MAILED	
US5090583 A	20031211	LSAS	AS	ASSIGNMENT	Effective date: 20030922 OldParty: NOTICE OF GRANT OF SECURITY INTEREST;ASSIGNOR:BIORELIANCE VIRAL MANUFACTURING, INC.;REEL/FRAME:014186/0501 Owner: BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT, IL PartyType: owner
US5090583 A	20040225	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5090583 A	20040420	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY	Effective date: 20040225

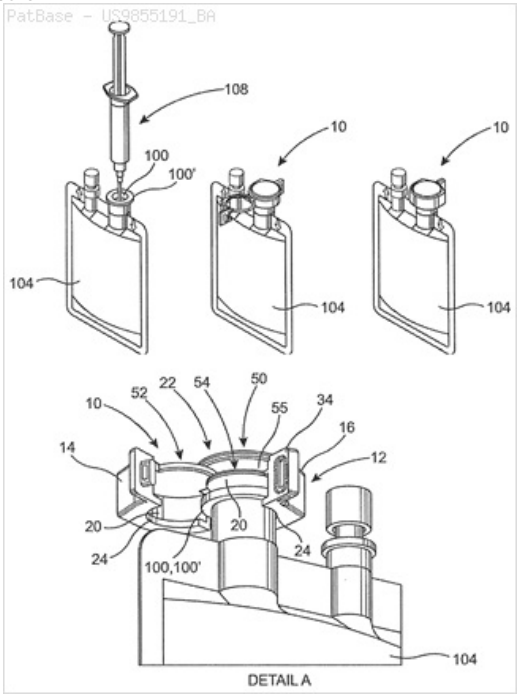
				MAINTENANCE FEE	
US5090583 A	20040616	LSAS	AS	ASSIGNMENT	Effective date: 20040426 OldParty: TERMINATION OF SECURITY INTEREST;ASSIGNOR:BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT;REEL/FRAME:014734/0720 Owner: BIORELIANCE VIRAL MANUFACTURING, INC., MARYLAND PartyType: owner
US5090583 A	20080630	LSAS	AS	ASSIGNMENT	Effective date: 20080605 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:MAGENTA CORPORATION;REEL/FRAME:021172/0124 Owner: MAGENTA LLC (F/K/A SFH-MAGENTA LLC), ILLINOIS PartyType: owner
US5090583 A	20080701	LSAS	AS	ASSIGNMENT	Effective date: 20080605 OldParty: SECURITY AGREEMENT;ASSIGNOR:SFH-MAGENTA LLC, TO BE RENAMED MAGENTA, LLC;REEL/FRAME:021172/0823 Owner: HARRIS N.A., ILLINOIS PartyType: owner
US5090583 A	20110327	PEXP		Calculated Patent Term Expiry	
US5090583 A	20180127	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5090583 A	20180127	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

66) Family number: 68046597 (US9855191 BA)

Title: **TAMPER EVIDENT** SHIELD ASSEMBLY WITH TRACKING

Abstract: A shield assembly for enclosing and restricting access to the port of a **container** including a **tamper evident** structure. A housing includes two segments movable between closed and **opened** orientations. A hollow interior of the housing, when in the closed orientation, substantially corresponds to the enclosed port. A **lock** assembly includes male and female members wherein a frangible structure interconnects the female member in engaging relation to the male member in a **locked** orientation. Passage of the male member through the female member from the **locked** position into an unlocked position results in detachment of the frangible structure and an enlargement of the female member sufficient to restrict the **lock** assembly from assuming the **locked** position. A tracking assembly is included and operative to identify and distinguish a plurality of shield assemblies and/or their components from one another.

Classifications:
International (IPC 8-9): A61J1/14 A61J1/18 A61M5/50
CPC: A61J1/10 A61J1/18 A61M5/5086
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US9855191 BA	20180102	US20140520198	20141021

Priority:

US20130913571P 20131209 US20140984347P 20140425 US20140520198 20141021

Probable Assignee: HUNT BRANDON
Assignee(s): (std): HUNT BRANDON ; VITELLO JONATHAN J
Inventor(s): (std): HUNT BRANDON ; VITELLO JONATHAN J
Agent(s): MALLOY AND MALLOY PL

Legal status (INPADOC)

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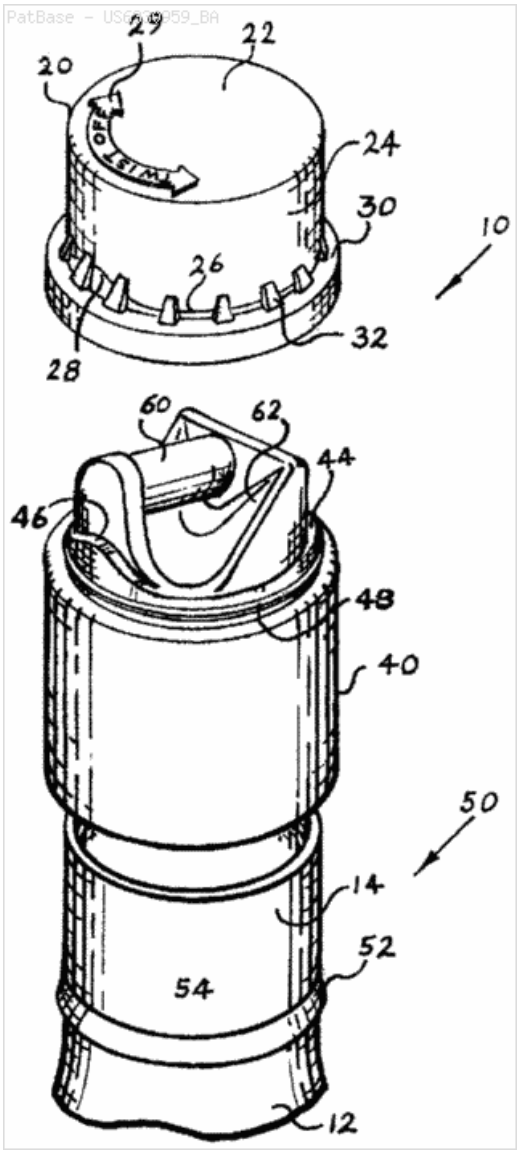
Patent	Date recorded	Event group	Code	Event	Details
US9855191 BA	20171213	LSGT	PAT1	Patented Case	
US9855191 BA	20171213	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US9855191 BA	20180102	LSGT	+	granted / extensions (spc, cpc, pte)	
US9855191 BA	20351118	PEXP		Calculated Patent Term Expiry (PTA 393 days)	

67) Family number: 28516609 (US6330959 BA)

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

Abstract: A **tamper evident** **closure** for use on a **container** has a **closure** overcap shaped to fit onto a dispensing cap, the dispensing cap being shaped to fit onto the **container**. The **closure** overcap is connected to a **tamper evident** band by fragmentable webs, and the **tamper evident** band attaches to the dispensing cap, as described below, so that removal of the **closure** overcap requires the fragmentable webs to be broken, thus providing evidence of the access. The fragmentable webs are strong enough so that it is only easy to break the fragmentable webs one at a time. The dispensing cap includes an upwardly extending cam that functions to break the fragmentable webs one at a time when the **closure** overcap is twisted with respect to the dispensing cap.

Classifications:
International (IPC 8-9): B65D41/32 B65D41/47 B65D47/04 B65D47/06 B65D47/24
International (IPC 1-7): B65D39/00 B67B5/00 B67D3/00
CPC: B65D41/47 B65D47/066 B65D47/243
US: 215/250 215/252 222/153.1 222/536



Family:

Publication number	Publication date	Application number	Application date
AU2001297614 AA	20030506	AU20010297614	20011023
US6330959 BA	20011218	US20000657238	20000907
WO03035534 A1	20030501	WO2001US49972	20011023

Priority:
US20000657238 20000907 WO2001US49972 20011023

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

Legal status (INPADOC)

View legal status timeline

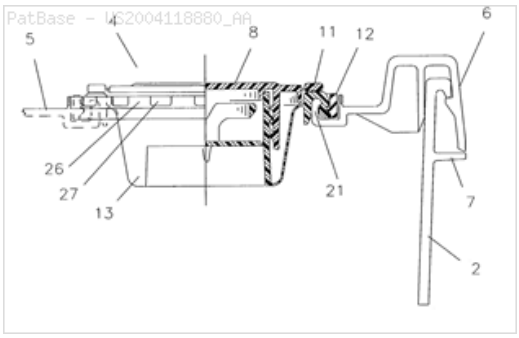
Patent	Date recorded	Event group	Code	Event	Details
AU2001297614 AA	20030506	LSPB	+	published / reissued	
US6330959 BA	20011218	LSGT	+	granted / extensions (spc, cpc, pte)	
US6330959 BA	20050706		REMI	MAINTENANCE FEE REMINDER MAILED	
US6330959 BA	20051219	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6330959 BA	20060118	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6330959 BA	20060118	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6330959 BA	20060214	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20051218
US6330959 BA	20200907	PEXP		Calculated Patent Term Expiry	
WO03035534 A1	20030501	LSPB	+	published / reissued	
WO03035534 A1	20030501		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
WO03035534 A1	20030501		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AM AT AZ BE BF BJ BY CF CG CH CI CM CY DE DK ES FI FR GA GB GH GM GN GQ GR GW IE IT KE KG KZ LS LU MC MD ML MR MW MZ NE NL PT RU SD SE SL SN SZ TD TG TJ TM TR TZ UG ZW
WO03035534 A1	20030625		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO03035534 A1	20041229	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Ref country code: WO
WO03035534 A1	20050914	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: JP

68) Family number: 30668064 (US2004118880 AA)

Title: TAMPER RESISTANT PLASTIC INDUSTRIAL **CONTAINER** WITH PAIL, COVER AND POUR SPOUT **CLOSURE**

Abstract: The present invention is an improved plastic industrial **container** which may be used for packaging, shipping and dispensing a variety of liquids while protecting the contents from tampering and theft. The **container** is manufactured in components which include a pail body, a cover and a nestable pour spout **closure**. The improved **container** design facilitates press fit assembly of the cover to the pail in the usual manner, but which blocks tool insertion and undamaged removal of the cover. The invention specifically relates to an improved cover and **closure** combination which facilitates the press fit assembly of the **closure** to the cover but which resists tampering. A molded cover sump and top plastic barrier wall closely surrounds the installed **closure**. The sump and barrier wall resist tampering by restricting the clearance for tool insertion and **closure** removal. The barrier wall is further molded in thin cross section with frangible elements to be easily damaged if tools are used in a prying manner on the **closure**. Damage to the top barrier wall or **container** cover provides **tamper evidence**.

Classifications:
International (IPC 8-9): B65D47/06 B65D47/10
International (IPC 1-7): B65D51/18 B67D3/00
CPC: B65D47/063 B65D47/103
US: 215/251 215/253 215/258 215/274 220/254.2 220/257.1 222/530 222/541.9 222/530P 222/541.900S



Family:

Publication number	Publication date	Application number	Application date
US2004118880 AA	20040624	US20020329964	20021223
US6923333 BB	20050802	US20020329964	20021223

Priority:
US20020329964 20021223

Probable Assignee:	ARCINIEGAS ALFONSO N
Assignee(s): (std):	ARCINIEGAS ALFONSO N ; STURK RON
Inventor(s): (std):	ARCINIEGAS ALFONSO N ; STURK RON
Inventor(s):	ALFONSO N ARCINIEGAS ; RON STURK
Agent(s):	ALFONSO N; ARCINIEGAS ALFONSO N

Legal status (INPADOC)

View legal status timeline

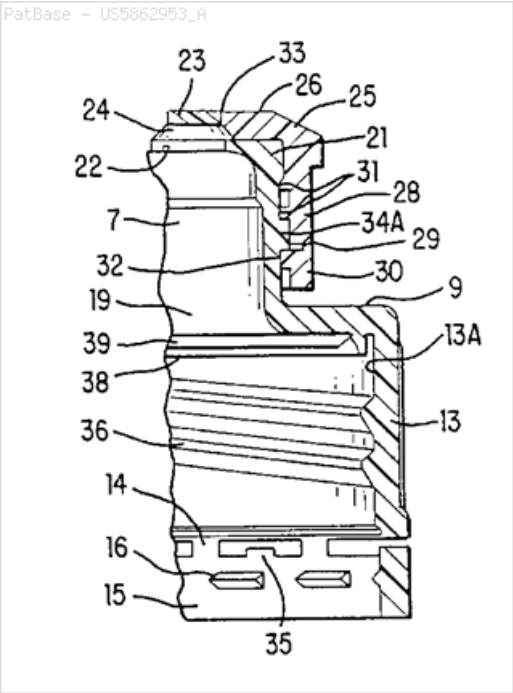
Patent	Date recorded	Event group	Code	Event	Details
US2004118880 AA	20040624	LSPB	+	published / reissued	
US2004118880 AA	20050713	LSGT	PAT1	Patented Case	
US6923333 BB	20050802	LSGT	+	granted / extensions (spc, cpc, pte)	
US6923333 BB	20081118	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6923333 BB	20130314	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6923333 BB	20130314		+SULP	SURCHARGE FOR LATE PAYMENT	Year of fee payment: 7
US6923333 BB	20170310		REMI	MAINTENANCE FEE REMINDER MAILED	
US6923333 BB	20170828	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US6923333 BB	20170828	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6923333 BB	20170828	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6923333 BB	20170919	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20170802
US6923333 BB	20230604	PEXP		Calculated Patent Term Expiry (PTA 163 days)	

69) Family number: 23545519 (US5862953 A)

Title: **Tamper evident** push-pull **closure** with pour spout

Abstract: A resealable push-pull pour spout **closure** having an annular secondary **closure** with a central **opening** through which a plug is adapted to engage to close a **container**. The central **opening** is defined by an annular wall having at least one internally extending annular flange. The diameter of the central **opening** is substantially the same as that of the plug. The plug takes the form of a circular **closure** disk having an integrally molded depending annular skirt projecting from the periphery of the disk that attaches to angularly extending legs that connect the plug to the spout thereby defining a hollow cavity for the plug interior and increasing the structural flexibility of the plug. The annular seal flange projects radially into **opening** for form fitting engagement with the plug to substantially eliminate any leakage when the plug is positioned in the central **opening**.

Classifications:
International (IPC 8-9): B65D41/00 B65D41/34 B65D41/62 B65D47/04 B65D47/24 B65D51/18
International (IPC 1-7): B65D4/710 B65D41/24 B65D41/34 B65D41/62 B65D45/02 B65D47/10 B65D47/24 B65D50/00 B67D4/710 B67D47/10 B67D5/00
CPC: B65D2251/0015 B65D2251/0087 B65D41/3447 B65D47/243 B65D51/18 B65D41/62
US: 222/153.06 222/523 222/525 222/541.06 222/541.6



Family:

Publication number	Publication date	Application number	Application date
AU199726677 A1	19971107	AU19970026677	19970416
BRPI9710530 A	19990817	BR1997PI10530	19970416
CA2303127 AA	20000310	CA19982303127	19980911
CA2303127 C	20090609	CA19982303127	19980911
CN1091058 C	20020918	CN19971095346	19970416
CN1221386 A	19990630	CN19971095346	19970416
EP0904238 A2	19990331	EP19970918611	19970416
US5862953 A	19990126	US19960687149	19960724
US6769575 BA	20040803	US19970838133	19970415
US6357628 BA	20020319	US19970927743	19970911
US6431404 BA	20020813	US20000643087	20000821
WO9738912 A2	19971023	WO1997US06159	19970416
WO9738912 A3	19971218	WO1997US06159	19970416
WO9912815 A2	19990318	WO1998US19024	19980911
WO9912815 A3	19990826	WO1998US19024	19980911
WO9912815 B1	19991028	WO1998US19024	19980911

Priority:

US19960633225 19960416 US19960687149 19960724 US19970838133 19970415
WO1997US06159 19970416 US19970927743 19970911 WO1998US19024 19980911
US20000643087 20000821

Probable Assignee: SILGAN IPEC CORP

Assignee(s): (std): INT PLASTICS AND EQUIPMEN ; INT PLASTICS AND EQUIPMENT ; INT PLASTICS AND EQUIPMENT COR ; INTERNAT PLASTICS AND EQUIPMEN

Assignee(s): INT PLASTICS AND EQUIPMENT CORP ; INTERNATIONAL PLASTICS AND EQUIPMENT CORP ; INTERNATONAL PLASTICS AND EQUIPMENT CORP ; LONG CHARLES J JR ; SILGAN IPEC CORP

Inventor(s): (std): LONG CHARLES J JR ; LONG JR CHARLES J

Inventor(s): CHARLES J LONG JR ; LONG CHARLES J

Agent(s): BORDEN LADNER GERVAIS LLP; COHEN AND GRIGSBY PC; COHEN AND GRISBY PC

Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC MX NL PT RU SE

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU199726677 A1	19971107	LSPB	+	published /	

				reissued	
BRPI9710530 A	19990817	LSPB	+	published / reissued	
BRPI9710530 A	20041207		B06A	NOTIFICATION TO APPLICANT TO REPLY TO THE REPORT FOR NON-PATENTABILITY OR INADEQUACY OF THE APPLICATION ACCORDING ART. 36 INDUSTRIAL PATENT LAW	
BRPI9710530 A	20050802	LSRV	-B11B	DISMISSAL ACC. ART. 36, PAR 1 OF IPL - NO REPLY WITHIN 90 DAYS TO FULLFIL THE NECESSARY REQUIREMENTS	
CA2303127 AA	20000310	LSPB	+	published / reissued	
CA2303127 AA	20030909	LSES	+EEER	EXAMINATION REQUEST	
CA2303127 C	20090609	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2303127 C	20120911	LSLE	-MKLA	LAPSED	
CA2303127 C	20180911	PEXP		Calculated Patent Term Expiry	
CN1091058 C	20020918	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1091058 C	20020918	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1091058 C	20040616	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN1091058 C	20170416	PEXP		Calculated Patent Term Expiry	
CN1221386 A	19990630	LSPB	+	published / reissued	
CN1221386 A	19990630	LSPB	+C06	PUBLICATION	
CN1221386 A	19990714		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
EP0904238 A2	19990331	LSPB	+	published / reissued	
EP0904238 A2	19990331	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19981116
EP0904238 A2	19990331		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
EP0904238 A2	20010516	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20010402
EP0904238 A2	20020313	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20010814
US5862953 A	19960724	LSAS	AS	ASSIGNMENT	Effective date: 19960722 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:LONG, CHARLES J., JR.;REEL/FRAME:008141/0364 Owner: INTERNATIONAL PLASTICS AND EQUIPMENT CORPORATION, PartyType: owner
US5862953 A	19990126	LSGT	+	granted / extensions (spc, cpc, pte)	
US5862953 A	20020813		REMI	MAINTENANCE FEE REMINDER MAILED	
US5862953 A	20030127	LSRE	+REIN	REINSTATEMENT AFTER MAINTENANCE FEE PAYMENT CONFIRMED	
US5862953 A	20030325	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY	Effective date: 20030126

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US5862953 A	20040419	LSRE	+PRDP	PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE	Effective date: 20040423
US5862953 A	20040423	LSGT	PAT1	Patented Case	
US5862953 A	20040423	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US5862953 A	20060323	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5862953 A	20100706	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US5862953 A	20130726	LSAS	AS	ASSIGNMENT	Effective date: 20111219 OldParty: MERGER;ASSIGNOR:INTERNATIONAL PLASTICS AND EQUIPMENT CORP.;REEL/FRAME:030882/0774 Owner: SILGAN IPEC CORPORATION, PENNSYLVANIA PartyType: owner
US5862953 A	20160724	PEXP		Calculated Patent Term Expiry	
US6357628 BA	19970911	LSAS	AS	ASSIGNMENT	Effective date: 19970911 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:LONG, JR., CHARLES J.;REEL/FRAME:008721/0879 Owner: INTERNATIONAL PLASTICS AND EQUIPMENT CORPORATION, PartyType: owner
US6357628 BA	20020319	LSGT	+	granted / extensions (spc, cpc, pte)	
US6357628 BA	20050802	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6357628 BA	20090915	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6357628 BA	20130726	LSAS	AS	ASSIGNMENT	Effective date: 20111219 OldParty: MERGER;ASSIGNOR:INTERNATIONAL PLASTICS AND EQUIPMENT CORP.;REEL/FRAME:030882/0774 Owner: SILGAN IPEC CORPORATION, PENNSYLVANIA PartyType: owner
US6357628 BA	20131025		REMI	MAINTENANCE FEE REMINDER MAILED	
US6357628 BA	20140319	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6357628 BA	20140414	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6357628 BA	20140414	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6357628 BA	20140506	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20140319
US6357628 BA	20170911	PEXP		Calculated Patent Term Expiry	
US6431404 BA	20001213	LSAS	AS	ASSIGNMENT	Effective date: 20000817 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:LONG, CHARLES J.;REEL/FRAME:011406/0082 Owner: INTERNATONAL PLASTICS AND EQUIPMENT CORPORATION, P PartyType: owner
US6431404 BA	20020813	LSGT	+	granted / extensions (spc, cpc, pte)	
US6431404 BA	20051220	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6431404 BA	20100126	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US6431404 BA	20130726	LSAS	AS	ASSIGNMENT	Effective date: 20111219 OldParty: MERGER;ASSIGNOR:INTERNATIONAL

					PLASTICS AND EQUIPMENT CORP.;REEL/FRAME:030882/0774 Owner: SILGAN IPEC CORPORATION, PENNSYLVANIA PartyType: owner
US6431404 BA	20140321		REMI	MAINTENANCE FEE REMINDER MAILED	
US6431404 BA	20140813	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6431404 BA	20140908	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6431404 BA	20140908	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6431404 BA	20140930	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20140813
US6431404 BA	20200821	PEXP		Calculated Patent Term Expiry	
US6769575 BA	19970415	LSAS	AS	ASSIGNMENT	Effective date: 19970410 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:LONG, CHARLES J., JR.;REEL/FRAME:008513/0684 Owner: INTERNATIONAL PLASTICS AND EQUIPMENT CORPORATION, PartyType: owner
US6769575 BA	20040803	LSGT	+	granted / extensions (spc, cpc, pte)	
US6769575 BA	20051213	LSRE	CC	CERTIFICATE OF CORRECTION	
US6769575 BA	20070905	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US6769575 BA	20120319		REMI	MAINTENANCE FEE REMINDER MAILED	
US6769575 BA	20120803	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6769575 BA	20120903	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6769575 BA	20120903	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6769575 BA	20120925	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20120803
US6769575 BA	20170415	PEXP		Calculated Patent Term Expiry	
WO9738912 A2	19970416	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 97195346.5 Country of Ref document: CN
WO9738912 A2	19971023	LSPB	+	published / reissued	
WO9738912 A2	19971023		+AK	DESIGNATED STATES	Kind code of Ref document: A2 Country of Ref document: AU BR CN JP KR RU
WO9738912 A2	19971023		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A2 Country of Ref document: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
WO9738912 A3	19971218		+AK	DESIGNATED STATES	Kind code of Ref document: A3 Country of Ref document: AU BR CN JP KR RU
WO9738912 A3	19971218		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A3 Country of Ref document: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
WO9738912 A3	19980115		CFP	CORRECTED VERSION OF A PAMPHLET FRONT PAGE	
WO9738912 A3	19980115	LSRE	CR1	CORRECTION OF ENTRY IN SECTION I	Text: PAT.BUL.45/97 UNDER INID (81) "DESIGNATED STATES", ADD "CA,MX";DUE TO LATE TRANSMITTAL BY THE RECEIVING OFFICE

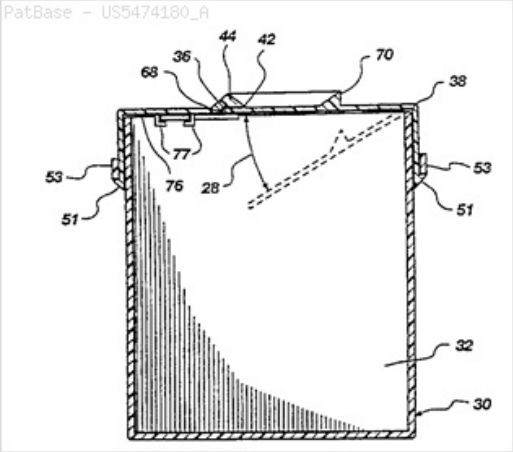
WO9738912 A3	19980121		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO9738912 A3	19980212		DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO9738912 A3	19981116	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1997918611 Country of Ref document: EP
WO9738912 A3	19990305	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref document number: 97537281 Country of Ref document: JP
WO9738912 A3	19990331	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1997918611 Country of Ref document: EP
WO9738912 A3	19991016	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: CA
WO9738912 A3	20010814	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	Ref document number: 1997918611 Country of Ref document: EP
WO9912815 A2	19990318	LSPB	+	published / reissued	
WO9912815 A2	19990318		+AK	DESIGNATED STATES	Kind code of Ref document: A2 Country of Ref document: BR CA CN MX
WO9912815 A2	19990318		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A2 Country of Ref document: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
WO9912815 A2	19990616		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO9912815 A2	19990708		DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO9912815 A3	19990826		+AK	DESIGNATED STATES	Kind code of Ref document: A3 Country of Ref document: BR CA CN MX
WO9912815 A3	19990826		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A3 Country of Ref document: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
WO9912815 B1	19991028		+AK	DESIGNATED STATES	Kind code of Ref document: B1 Country of Ref document: BR CA CN MX
WO9912815 B1	19991028		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: B1 Country of Ref document: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
WO9912815 B1	20000310	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2303127 Country of Ref document: CA
WO9912815 B1	20000310	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2303127 Country of Ref document: CA
WO9912815 B1	20010103	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Ref country code: WO

70) Family number: 10953166 (US5474180 A)

Title: **CONTAINER** ASSEMBLY FOR TRANSPORT AND DISPOSAL OF MEDICAL MATERIALS

Abstract: A **container** assembly for transport and disposal of medical instruments is disclosed and claimed. The **container** assembly preferably has a **container** body and a lid for use with multiple-sized **container** bodies. The lid includes a self-closing biased flap and a cradle member for insertion of sharp medical instruments and other medical waste without contact by medical personnel during insertion into the **container**.

Classifications:
International (IPC 8-9): A61B19/00 A61B19/02 A61G12/00 A61J1/00 A61M5/32 B65D85/24 B65F1/00 B65F1/10 B65F1/16
International (IPC 1-7): A61G12/00 A61J1/00 B65D85/20 B65D85/24 B65F1/00
CPC: A61B2050/0056 A61B2050/0059 A61B2050/006 A61B2050/0065 A61B2050/0083 A61B2050/0089 A61B2050/009 A61B2050/3011 A61B50/3001 A61B50/362 A61M5/3205 B65F1/10 B65F1/1615
US: 206/366 206/370 53/468



Family:

Publication number	Publication date	Application number	Application date
AU199520918 A1	19960314	AU19950020918	19950303
AU199654381 A1	19961023	AU19960054381	19960328
AU702942 B2	19990311	AU19960054381	19960328
AU199733949 A1	19980107	AU19970033949	19970609
BRPI9604802 A	19980609	BR1996PI04802	19960328
CA2213487 AA	19970821	CA19962213487	19960328
EP0819089 A1	19980121	EP19960911515	19960328
EP0819089 A4	19980401	EP19960911515	19960328
JP11509107 T2	19990817	JP19960530403T	19960328
MX9707171 A1	19971129	MX19970007171	19960328
US5474180 A	19951212	US19940294533	19940823
US5570783 A	19961105	US19950417797	19950406
US5630506 A	19970520	US19960664396	19960617
WO9606024 A1	19960229	WO1995US02535	19950303
WO9631414 A1	19961010	WO1996US04449	19960328
WO9748624 A1	19971224	WO1997US10363	19970609

Priority:

US19940207480 19940307 US19940294533 19940823 WO1995US02535 19950303
US19950417797 19950406 WO1996US04449 19960328 US19960664396 19960617
WO1997US10363 19970609

Probable Assignee: SPECIALIZED HEALTH PRODUCTS

Assignee(s): (std): SPECIALIZED HEALTH PROD INC ; SPECIALIZED HEALTH PRODUCTS ; SPECIALIZED HEALTH PRODUCTS INC ; SPECIALIZED HEATH PRODUCTS

Assignee(s): ROBINSON BRAD C ; ROBINSON DAVID A ; THORNE GALE H

Inventor(s): (std): FAILOR KENNETH L ; FALOR KENNETH L ; ROBINSON BRAD ; ROBINSON BRAD C ; ROBINSON DAVID A ; THORNE GALE H

Inventor(s): BRAD C ROBINSON ; DAVID A ROBINSON ; GALE H THORNE ; KENNETH L FAILOR

Agent(s): CASSAN MACLEAN; GRIFFITH HACK

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG UZ VN

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU199520918 A1	19960314	LSPB	+	published / reissued	
AU199654381 A1	19961023	LSPB	+	published / reissued	
AU199733949 A1	19980107	LSPB	+	published / reissued	
AU702942 B2	19990311	LSGT	+	granted / extensions (spc, cpc, pte)	
AU702942 B2	20031030	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT	

				PAID) OR EXPIRED	
AU702942 B2	20160328	PEXP		Calculated Patent Term Expiry	
BRPI9604802 A	19980609	LSPB	+	published / reissued	
BRPI9604802 A	20020416	LSGT	+FF	DECISION: INTENTION TO GRANT	
BRPI9604802 A	20020903	LSGT	+FG9A	PATENT OR CERTIFICATE OF ADDITION GRANTED	
BRPI9604802 A	20110712	LSFE	B24C	PATENT ANNUAL FEE: REQUEST FOR FOR RESTORATION	Text: REFERENTE A 8A,9A,10A,11A,12A,13A,14A E 15A ANUIDADE(S).
BRPI9604802 A	20140408	LSLE	-B24H	LAPSE BECAUSE OF NON-PAYMENT OF ANNUAL FEES (DEFINITIVELY: ART 78 IV LPI)	
CA2213487 AA	19970821	LSPB	+	published / reissued	
CA2213487 AA	20040329	LSLE	-FZDE	DEAD	
EP0819089 A1	19980121	LSPB	+	published / reissued	
EP0819089 A1	19980121	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19971022
EP0819089 A1	19980121		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: DE ES FR GB IE IT LU MC
EP0819089 A4	19980401	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	Effective date: 19980216
EP0819089 A4	19980401		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A4 Country of Ref document: DE ES FR GB IE IT LU MC
EP0819089 A4	20030702	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20021206
JP11509107 T2	19990817	LSPB	+	published / reissued	
MX9707171 A1	19971129	LSPB	+	published / reissued	
MX9707171 A1	20011129	LSGT	+FG	GRANT OR REGISTRATION	
MX9707171 A1	20160630	LSLE	-MM	ANNULMENT OR LAPSE DUE TO NON-PAYMENT OF FEES	
US5474180 A	19941024	LSAS	AS	ASSIGNMENT	Effective date: 19941018 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:ROBINSON, DAVID A.;ROBINSON, BRAD C.;FAILOR, KENNETH L.;REEL/FRAME:007337/0279 Owner: SPECIALIZED HEALTH PRODUCTS, UTAH PartyType: owner
US5474180 A	19951212	LSGT	+	granted / extensions (spc, cpc, pte)	
US5474180 A	19971007	LSRE	CC	CERTIFICATE OF CORRECTION	
US5474180 A	19990308	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5474180 A	20030220	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
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US5474180 A	20080107	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
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US5474180 A	20140823	PEXP		Calculated Patent Term Expiry	
US5570783 A	19950406	LSAS	AS	ASSIGNMENT	Effective date: 19950406 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:ROBINSON, DAVID A.;THORNE, GALE H.;ROBINSON, BRAD C.;REEL/FRAME:007431/0036 Owner: SPECIALIZED HEALTH PRODUCTS, INC., UTAH PartyType: owner
US5570783 A	19961105	LSGT	+	granted / extensions (spc, cpc, pte)	
US5570783 A	20000131	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5570783 A	20040331	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5570783 A	20080512		REMI	MAINTENANCE FEE REMINDER MAILED	
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US5630506 A	19960617	LSAS	AS	ASSIGNMENT	Effective date: 19960617 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:THORNE, GALE H.;ROBINSON, DAVID A.;ROBINSON, BRAD C.;REEL/FRAME:008039/0379 Owner: SPECIALIZED HEALTH PRODUCTS, UTAH PartyType: owner
US5630506 A	19970520	LSGT	+	granted / extensions (spc, cpc, pte)	
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US5630506 A	20040922	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
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US5630506 A	20160617	PEXP		Calculated Patent Term Expiry	
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				EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO9606024 A1	19960605		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
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WO9606024 A1	19970912	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1019970706383 Country of Ref document: KR
WO9606024 A1	19971210	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Ref country code: WO
WO9606024 A1	19980423	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: CA
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WO9631414 A1	19970909	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 1996 530403 Country of Ref document: JP
WO9631414 A1	19970922	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: PA/a/1997/007171 Country of Ref document: MX
WO9631414 A1	19971002	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1996911515 Country of Ref document: EP
WO9631414 A1	19980121	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1996911515 Country of Ref document: EP
WO9631414 A1	19980212	LSWD	REG	REFERENCE TO NATIONAL CODE	Ref country code: DE Ref legal event code: 8642
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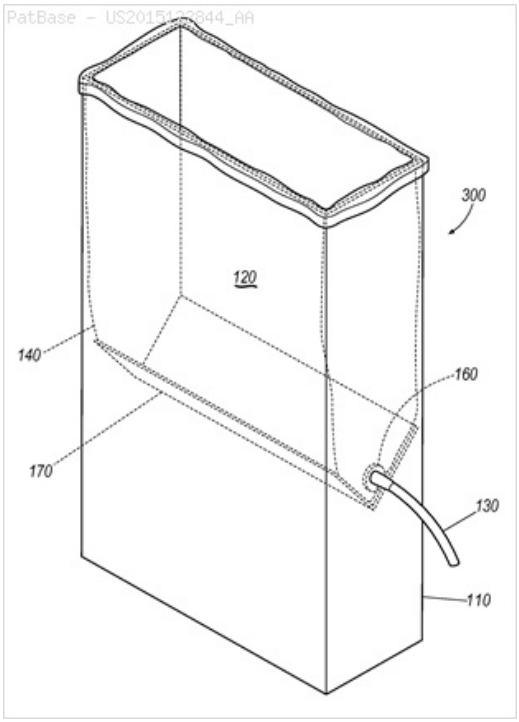
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WO9748624 A1	19990217	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: CA
WO9748624 A1	19990305	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref document number: 98503189 Country of Ref document: JP
WO9748624 A1	19990422	LSWD	REG	REFERENCE TO NATIONAL CODE	Ref country code: DE Ref legal event code: 8642
WO9748624 A1	19991208	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Ref country code: WO

71) Family number: 59134966 (US2015122844 AA)

Title: LINER FOR A VESSEL

Abstract: A beverage **containment** assembly may include a disposable liner assembly for dispensing fluids with a vessel. The liner assembly may comprise a flexible liner configured for the vessel, a flexible tube; and a cuff having an interlock surface. The cuff may be received in at least a portion of the tube thereby **securing** the liner and the tube. The interlock surface may be configured to provide a seal between at least the cuff and the liner. A method of manufacturing same is further provided.

Classifications:
International (IPC 8-9): A47J31/00 A47J31/06 A47J31/18 A47J31/44 A47J31/46 B65D25/14 B65D25/16 B65D25/38 B65D25/40 B65D47/06 B65D77/06 B65D85/72 B67D1/08 B67D3/00 B67D7/06
CPC: A47J31/007 A47J31/0605 A47J31/0615 A47J31/18 A47J31/44 A47J31/46 B67D2210/00062 B67D3/0035 B67D3/0067 B67D3/0083 B67D3/0096 Y10T29/49826 B67D1/0807 B67D2001/0827 B65D47/06
US: 1/1 222/183 222/185.1 222/513 222/544 29/428 383/41 53/469 99/300



Family:

Publication number	Publication date	Application number	Application date
US10227227 BB	20190312	US20140533658	20141105
US2015122844 AA	20150507	US20140533658	20141105
US10561272 BB	20200218	US20150836232	20150826
US2015359379 AA	20151217	US20150836232	20150826
US10472225 BB	20191112	US20150941378	20151113
US2016068382 AA	20160310	US20150941378	20151113
US10051990 BB	20180821	US20160290401	20161011
US2017029170 AA	20170202	US20160290401	20161011
WO15068120 A1	20150514	WO2014IB65832	20141105

Priority:

US20130900102P 20131105 US20140533658 20141105 US20150836232 20150826
US20150240388P 20151012 US20150941378 20151113 US20160290401 20161011

Probable Assignee: PLASCON PACKAGING INC

Assignee(s): (std): KLEIN MATTHEW P ; PETERSON DAVID E ; PLACON GROUP ; PLASCON GROUP ; PLASCON PACKAGING INC

Assignee(s): JPMORGAN CHASE BANK NA

Inventor(s): (std): KLEIN MATTHEW ; KLEIN MATTHEW P ; PETERSON DAVID ; PETERSON DAVID E

Agent(s): FISHMAN STEWART PLLC; RADER FISHMAN AND GRAUER PLLC

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
US10051990 BB	20161011	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:PETERSON, DAVID E.;KLEIN, MATTHEW P.;REEL/FRAME:039986/0193 PartyType: owner Effective date: 20161010 Owner: PLASCON GROUP, MICHIGAN
US10051990 BB	20180801	LSGT	PAT1	Patented Case	

US10051990 BB	20180821	LSGT	+	granted / extensions (spc, cpc, pte)	
US10051990 BB	20190731	LSAS	AS	ASSIGNMENT	Effective date: 20190729 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PETERSON, DAVID E;REEL/FRAME:049919/0760 Owner: PLASCON PACKAGING, INC., MICHIGAN PartyType: owner
US10051990 BB	20190924	LSAS	AS	ASSIGNMENT	PartyType: owner Owner: PLASCON PACKAGING, INC., MICHIGAN Effective date: 20190830 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KLEIN, MATTHEW P;REEL/FRAME:050470/0882
US10051990 BB	20191022	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 20190813 Owner: JPMORGAN CHASE BANK, N.A., NEW YORK OldParty: SECURITY INTEREST;ASSIGNOR:PLASCON PACKAGING, INC.;REEL/FRAME:050786/0328
US10051990 BB	20341105	PEXP		Calculated Patent Term Expiry	
US10227227 BB	20141105	LSAS	AS	ASSIGNMENT	Effective date: 20141030 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:PETERSON, DAVID E.;KLEIN, MATTHEW P.;REEL/FRAME:034109/0722 Owner: PLASCON GROUP, MICHIGAN PartyType: owner
US10227227 BB	20190220	LSGT	PAT1	Patented Case	
US10227227 BB	20190312	LSGT	+	granted / extensions (spc, cpc, pte)	
US10227227 BB	20190924	LSAS	AS	ASSIGNMENT	Effective date: 20190830 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KLEIN, MATTHEW P;REEL/FRAME:050470/0882 Owner: PLASCON PACKAGING, INC., MICHIGAN PartyType: owner
US10227227 BB	20190924	LSAS	AS	ASSIGNMENT	Effective date: 20190729 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:PETERSON, DAVID E;REEL/FRAME:050471/0836 Owner: PLASCON PACKAGING, INC., MICHIGAN PartyType: owner
US10227227 BB	20191022	LSAS	AS	ASSIGNMENT	Effective date: 20190813 OldParty: SECURITY INTEREST;ASSIGNOR:PLASCON PACKAGING, INC.;REEL/FRAME:050786/0328 Owner: JPMORGAN CHASE BANK, N.A., NEW YORK PartyType: owner
US10227227 BB	20360306	PEXP		Calculated Patent Term Expiry (PTA 487 days)	
US10472225 BB	20191112	LSGT	+	granted / extensions (spc, cpc, pte)	
US10472225 BB	20350131	PEXP		Calculated Patent Term Expiry (PTA 87 days and a terminal disclaimer has been filed)	
US10561272 BB	20200218	LSGT	+	granted / extensions (spc, cpc, pte)	
US10561272 BB	20350826	PEXP		Calculated Patent Term Expiry	
US2015122844 AA	20150507	LSPB	+	published / reissued	
US2015122844 AA	20151118	LSES	NFA1	Non Final Action Mailed	
US2015122844 AA	20170327	LSAL	EAA1	Examiner's Answer	

				to Appeal Brief Mailed	
US2015122844 AA	20170327	LSAL	EAA1	Examiner's Answer to Appeal Brief Mailed	
US2015122844 AA	20170530	LSAL	APL3	Appeal Ready for Review	
US2015122844 AA	20170602	LSAL	APL1	Appeal Awaiting BPAI Docketing	
US2015122844 AA	20170605	LSAL	APL5	On Appeal -- Awaiting Decision by the Board of Appeals	
US2015122844 AA	20180614	LSAL	BDR1	Board of Appeals Decision Rendered	
US2015122844 AA	20190110	LSFE	PPV1	Publications -- Issue Fee Payment Verified	
US2015122844 AA	20190220	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2015359379 AA	20150826	LSAS	AS	ASSIGNMENT	Effective date: 20150806 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:PETERSON, DAVID E.;KLEIN, MATTHEW P.;REEL/FRAME:036427/0380 Owner: PLASCON GROUP, MICHIGAN PartyType: owner
US2015359379 AA	20150910		APP1	Application Dispatched from Preexam, Not Yet Docketed	
US2015359379 AA	20151217	LSPB	+	published / reissued	
US2015359379 AA	20170327		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2015359379 AA	20170624		FRM2	Final Rejection Counted, Not Yet Mailed	
US2015359379 AA	20170630		FRM1	Final Rejection Mailed	
US2015359379 AA	20170912		RSP1	Response after Final Action Forwarded to Examiner	
US2015359379 AA	20171020	LSES	ADV2	Advisory Action Counted, Not Yet Mailed	
US2015359379 AA	20171023	LSES	ADV1	Advisory Action Mailed	
US2015359379 AA	20180220	LSES	NFA1	Non Final Action Mailed	
US2015359379 AA	20190108	LSES	NFA1	Non Final Action Mailed	
US2015359379 AA	20190108		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NON FINAL ACTION MAILED
US2015359379 AA	20190418		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2015359379 AA	20190418		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER
US2015359379 AA	20190606		FRM1	Final Rejection Mailed	
US2015359379 AA	20190606		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: FINAL REJECTION MAILED
US2015359379 AA	20190731	LSAS	AS	ASSIGNMENT	Effective date: 20190729 OldParty: ASSIGNMENT OF

					ASSIGNORS INTEREST;ASSIGNOR:PETERSON, DAVID E;REEL/FRAME:049919/0760 Owner: PLASCON PACKAGING, INC., MICHIGAN PartyType: owner
US2015359379 AA	20190816		RSP1	Response after Final Action Forwarded to Examiner	
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US2015359379 AA	20190924	LSAS	AS	ASSIGNMENT	Effective date: 20190830 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KLEIN, MATTHEW P;REEL/FRAME:050470/0882 Owner: PLASCON PACKAGING, INC., MICHIGAN PartyType: owner
US2015359379 AA	20191022	LSAS	AS	ASSIGNMENT	Effective date: 20190813 OldParty: SECURITY INTEREST;ASSIGNOR:PLASCON PACKAGING, INC.;REEL/FRAME:050786/0328 Owner: JPMORGAN CHASE BANK, N.A., NEW YORK PartyType: owner
US2015359379 AA	20191213	LSFE	PPR1	Publications -- Issue Fee Payment Received	
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US2015359379 AA	20191218	LSFE	PPV1	Publications -- Issue Fee Payment Verified	
US2015359379 AA	20191218		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: PUBLICATIONS -- ISSUE FEE PAYMENT VERIFIED
US2015359379 AA	20200129	LSGT	PAT1	Patented Case	
US2015359379 AA	20200129	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2016068382 AA	20151116	LSAS	AS	ASSIGNMENT	Effective date: 20151113 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:KLEIN, MATTHEW P;PETERSON, DAVID E;REEL/FRAME:037049/0108 Owner: PLASCON GROUP, MICHIGAN PartyType: owner
US2016068382 AA	20160310	LSPB	+	published / reissued	
US2016068382 AA	20161230	LSES	NFA1	Non Final Action Mailed	
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US2016068382 AA	20180405		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2016068382 AA	20180601		FRM1	Final Rejection Mailed	
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US2016068382 AA	20190329		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: FINAL REJECTION MAILED
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US2016068382 AA	20191023	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2017029170 AA	20170202	LSPB	+	published / reissued	
US2017029170 AA	20170322		RFE1	Docketed New Case - Ready for Examination	
US2017029170 AA	20171122	LSES	NFA1	Non Final Action Mailed	
US2017029170 AA	20180301		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
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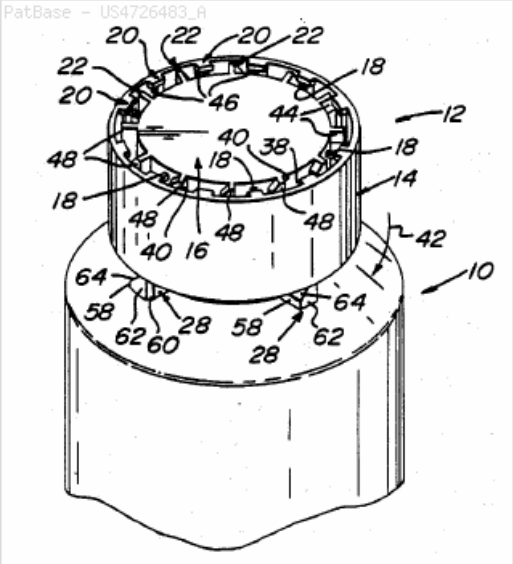
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US2017029170 AA	20180717	LSFE	AWA2	Awaiting TC Resp, Issue Fee Payment Received	
US2017029170 AA	20180719	LSFE	PPR1	Publications -- Issue Fee Payment Received	
US2017029170 AA	20180801	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
WO15068120 A1	20150514	LSPB	+	published / reissued	
WO15068120 A1	20150624		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 14859405 Country of Ref document: EP
WO15068120 A1	20160506	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO15068120 A1	20161130	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A1 Ref document number: 14859405 Country of Ref document: EP

72) Family number: 10160340 (US4726483 A)

Title: **TAMPER-EVIDENT** **CLOSURE** EMPLOYING INNER CAP AND OUTER SLEEVE AND **CONTAINER** UTILIZED THEREWITH

Abstract: A unitary **tamper-evident** **closure** includes an inner threaded cap member (16) interconnected by circumferentially spaced-apart, radially extending break-away tabs (18) to an outer skirt (14) that is concentric with the inner cap member (16). The outer skirt includes a plurality of circumferentially spaced-apart first abutment members (20) that cooperate with circumferentially spaced-apart abutment members (22) on the inner cap member to transmit a driving force from the outer skirt to the inner cap member when the **closure** is being rotated onto the threaded neck (24) of a **container** (10). The first abutment members (20) also cooperate with the abutment members (22) for imparting axially oriented forces to the inner cap member (16) and outer skirt (14) in opposite directions when the **closure** initially is unthreaded from the neck (24). In the preferred embodiment of the invention the outer skirt is provided with a plurality of circumferentially spaced-apart second abutment members (26) for cooperating with a plurality of circumferentially spaced-apart **locking** members (28) on a **container** (10) to assist in maintaining the **closure** in a closed condition, and also to assist in applying an axial force to the outer skirt (14) for the purpose of assisting in fracturing the break-away tabs (18) that interconnect the inner cap member (16) to the outer skirt (14). A preferred **container** (10) in accordance with this invention is a unitary member having a neck (24) with a threaded section adjacent the upper end thereof, a circumferentially continuous, radially extending collar (68) terminating in a peripheral, circumferential edge disposed radially outward of the threads, and a plurality of circumferentially spaced-apart **locking** members (28) below the collar and having portions extending radially beyond the peripheral edge of the collar.

Classifications:
International (IPC 8-9): B65D41/34
International (IPC 1-7): B65D41/34
CPC: B65D41/34 B65D41/3414 Y10S215/901
US: 215/252 215/31 215/44 215/901



Family:

Publication number	Publication date	Application number	Application date
US4726483 A	19880223	US19870051443	19870518

Priority:
US19870051443 19870518

Probable Assignee: CAPTIVE PLASTICS INC
Assignee(s) (std): CAPTIVE PLASTICS INC
Assignee(s): CAPTIVE PLASTICS INC PISCATAWAY NJ A CORP OF NJ
Inventor(s) (std): DROZD EDWARD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4726483 A	19870706	LSAS	AS	ASSIGNMENT	Effective date: 19870512 Owner: CAPTIVE PLASTICS, INC., PISCATAWAY, NJ, A CORP OF OldParty: ASSIGNMENT OF ASSIGNORS INTEREST.;ASSIGNOR:DROZD, EDWARD;REEL/FRAME:004735/0468 PartyType: owner
US4726483 A	19871223	LSGT	PAT1	Patented Case	
US4726483 A	19880223	LSGT	+	granted / extensions (spc, cpc, pte)	
US4726483 A	19951003		REMI	MAINTENANCE FEE REMINDER MAILED	
US4726483 A	19960225	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4726483 A	19960507	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 19960228
US4726483 A	20180130	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees	

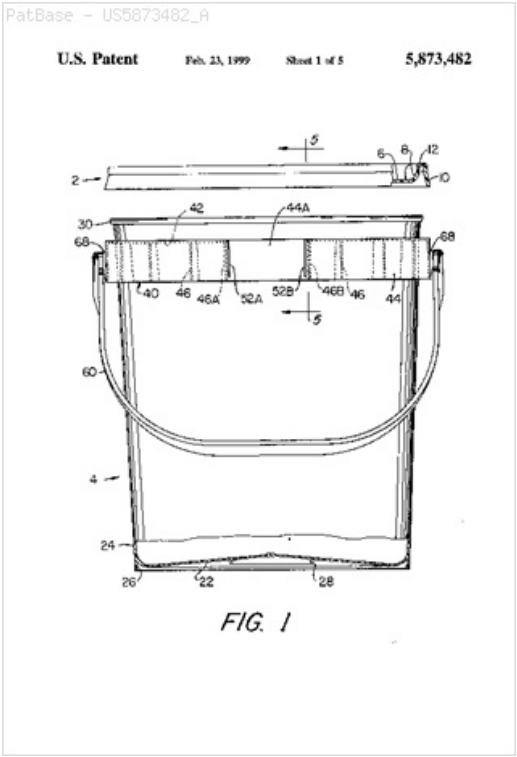
				Under 37 CFR 1.362	
US4726483 A	20180130	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

73) Family number: 11456830 (US5873482 A)

Title: TAMPER-EVIDENT CONTAINER CLOSURE

Abstract: A tamper-evident closure for a container is provided. The container is formed with means at its open upper end for making a snap fit locking connection with a cover. The container has a peripheral flange with a skirt section that surrounds and is spaced radially from the container's side wall, and the cover has a depending skirt that extends down around the upper end of the container and has a free bottom edge that lies immediately adjacent to the flange. The flange has an outer surface that is flush with the adjacent portion of the outer surface of the skirt, so that essentially the flange appear to be a continuation of the skirt. As a consequence the closure formed by the cover (lid) and the container is resistant to opening by a small child. Additionally the skirt section of the flange has a tab portion that is breakable under pressure so that, once broken, it can be depressed inwardly toward the container side wall far enough to permit a person to engage the bottom edge of the skirt on the cover and thereby force the cover off of the container. The tab portion functions as a tamper evident feature, since the fact that it has been broken can be easily discerned from inspection and since the torn tab cannot be restored to its original condition.

Classifications:
International (IPC 8-9): B65D17/28 B65D17/32 B65D25/28 B65D25/32 B65D43/02 B65D43/06 B65D50/02
International (IPC 1-7): B65D17/32 B65D43/06 B65D50/02
CPC: B65D2401/10 B65D25/32 B65D2543/00092 B65D2543/00194 B65D2543/00296 B65D2543/00527 B65D2543/00537 B65D2543/00629 B65D2543/00685 B65D2543/0074 B65D2543/00796 B65D2543/00944 B65D43/0212
US: 220/266 220/268



Family:

Publication number	Publication date	Application number	Application date
CA2249953 AA	19990619	CA19982249953	19981009
CA2249953 C	20050830	CA19982249953	19981009
US5873482 A	19990223	US19970994536	19971219

Priority:
US19970994536 19971219 CA19982249953 19981009

Probable Assignee: PLASTICAN INC
Assignee(s): (std): PLASTICAN INC
Assignee(s): BANK OF AMERICA NA ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BANK OF NEW YORK MELLON TRUST CO NA ; BANK OF NEW YORK MELLON TRUST CO NA COLLATERAL AGENT AS ; BWAY CORP ; CONTI RINO ; DEUTSCHE BANK TRUST CO AMERICAS ; NORTH AMERICA PACKAGING CORP ; ROPAK CORP
Inventor(s): (std): CONTI RINO
Agent(s): MACRAE AND CO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2249953 AA	19990619	LSPB	+	published / reissued	
CA2249953 AA	20001012	LSES	+EEER	EXAMINATION REQUEST	
CA2249953 C	20050830	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2249953 C	20091009	LSLE	-MKLA	LAPSED	
CA2249953 C	20181009	PEXP		Calculated Patent Term Expiry	

US5873482 A	19971219	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 19971217 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:CONTI, RINO;REEL/FRAME:008929/0539 Owner: PLASTICAN, INC., MASSACHUSETTS
US5873482 A	19990121	LSGT	PAT1	Patented Case	
US5873482 A	19990121	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US5873482 A	19990223	LSGT	+	granted / extensions (spc, cpc, pte)	
US5873482 A	20020305	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5873482 A	20060321	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5873482 A	20100823	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US5873482 A	20121114	LSAS	AS	ASSIGNMENT	OldParty: SECURITY INTEREST (TERM);ASSIGNOR:PLASTICAN, INC.;REEL/FRAME:029296/0077 PartyType: owner Effective date: 20121112 Owner: DEUTSCHE BANK TRUST COMPANY AMERICAS, NEW YORK
US5873482 A	20121114	LSAS	AS	ASSIGNMENT	OldParty: SECURITY INTEREST (ABL);ASSIGNOR:PLASTICAN, INC.;REEL/FRAME:029296/0064 Effective date: 20121112 Owner: BANK OF AMERICA, N.A., GEORGIA PartyType: owner
US5873482 A	20140814	LSAS	AS	ASSIGNMENT	OldParty: RELEASE OF SECURITY INTEREST;ASSIGNOR:DEUTSCHE BANK TRUST COMPANY AMERICAS;REEL/FRAME:033544/0089 PartyType: owner Owner: PLASTICAN, INC., GEORGIA Effective date: 20140814
US5873482 A	20140815	LSAS	AS	ASSIGNMENT	Effective date: 20140814 PartyType: owner OldParty: SECURITY INTEREST;ASSIGNORS:BWAY CORPORATION;NORTH AMERICA PACKAGING CORPORATION;PLASTICAN, INC.;AND OTHERS;REEL/FRAME:033549/0357 Owner: BANK OF AMERICA, N.A., AS COLLATERAL AGENT, NEW YO
US5873482 A	20170403	LSAS	AS	ASSIGNMENT	PartyType: owner Owner: ROPAK CORPORATION, GEORGIA OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:BANK OF AMERICA, N.A.;REEL/FRAME:042142/0551 Effective date: 20170403
US5873482 A	20170403	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 20170403 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:BANK OF AMERICA, N.A.;REEL/FRAME:042142/0551 Owner: PLASTICAN, INC., GEORGIA
US5873482 A	20170403	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:BANK OF AMERICA, N.A.;REEL/FRAME:042142/0551 Owner: BWAY CORPORATION, GEORGIA Effective date: 20170403
US5873482 A	20170403	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:BANK OF AMERICA, N.A.;REEL/FRAME:042142/0551 Owner: NORTH AMERICA PACKAGING CORPORATION, GEORGIA Effective date: 20170403
US5873482 A	20170403	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 20170403 Owner: BANK OF AMERICA, N.A., AS COLLATERAL AGENT, NORTH OldParty: TERM LOAN SECURITY AGREEMENT;ASSIGNORS:BWAY CORPORATION;NORTH AMERICA PACKAGING CORPORATION;PLASTICAN, INC.;AND OTHERS;REEL/FRAME:042142/0644
US5873482 A	20170405	LSAS	AS	ASSIGNMENT	Effective date: 20170403 OldParty: NOTES SECURITY AGREEMENT;ASSIGNORS:BWAY CORPORATION;NORTH AMERICA PACKAGING CORPORATION;PLASTICAN, INC.;AND OTHERS;REEL/FRAME:042166/0217

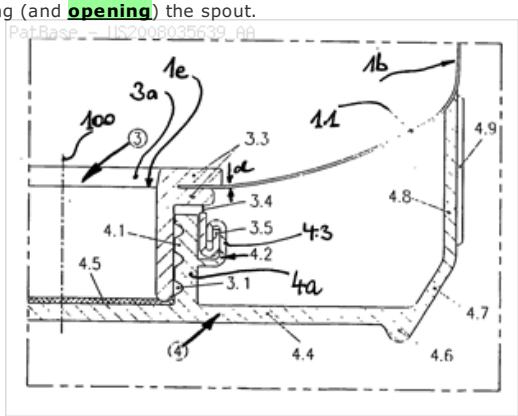
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US5873482 A	20170407	LSAS	AS	ASSIGNMENT	Effective date: 20170403 OldParty: SECURITY INTEREST;ASSIGNORS:BWAY CORPORATION;NORTH AMERICA PACKAGING CORPORATION;PLASTICAN, INC.;AND OTHERS;REEL/FRAME:042190/0848 Owner: THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F PartyType: owner
US5873482 A	20171219	PEXP		Calculated Patent Term Expiry	

74) Family number: 31840825 (US2008035639 AA)

Title: RECLOSABLE BEVERAGE CAN

Abstract: Suggested is a metallic beverage can having a can body (1) for receiving a beverage filled into an inside (1 i) of said body at a filler's location. The body is made from a sheet material, and having a wall portion (1 b, 1 c) with axial ends. One axial end of the wall portion having a first portion (1.1), said first portion having a domed, axially outward vaulted shape, and being the bottom of the can body. The second portion having a body hook (2.5) for receiving and supporting a lid (2) for seaming and closing the can body to form a closed can. The first portion (1.1) has a spout (3, 3 ') of a diameter less than a diameter of said wall portion (1 b), and a cap (4, 4 ') for closing (and **opening**) the spout.

Classifications:
International (IPC 8-9): B65D B65D1/12 B65D25/38 B65D25/40 B65D25/44 B65D39/08 B65D41/04 B65D41/34 B65D47/06 B65D51/08 B65D51/24 B65D51/28 B65D6/40 B65D8/02 B65D8/04
International (IPC 1-7): B65D6/40
CPC: B65D25/44 B65D47/061 B65D51/249 B65D51/28 B65D7/40
US: 220/213 220/256.1 220/259.3



Family:

Publication number	Publication date	Application number	Application date
AT409652 E	20081015	AT20030023837T	20031020
AU2004287564 AA	20050519	AU20040287564	20041019
BRPI0415670 A	20061219	BR2004PI15670	20041019
CA2542528 AA	20060412	CA20042542528	20041019
CN1878701 A	20061213	CN200480030946	20041019
DE60323839 D1	20081113	DE20036023839T	20031020
EP1526079 A1	20050427	EP20030023837	20031020
EP1526079 B1	20081001	EP20030023837	20031020
EP1682419 A2	20060726	EP20040790647	20041019
ES2315451 T3	20090401	ES20030023837T	20031020
HK1093718 A1	20070309	HK20070100748	20070122
HK1093718 A3	20070309	HK20070100748	20070122
IL174974 A0	20060820	IL20040174974	20041019
JP2007509006 T2	20070412	JP20060536031T	20041019
KR20060120132 A	20061124	KR20067009819	20041019
RS20060274 A	20080807	YU20060000274	20041019
RS50952 B	20100831	YU20060000274	20041019
RU2006111447 A	20071127	RU20060111447	20041019
RU2361791 C2	20090720	RU20060111447	20041019
SA04250344 A	20051203	SA20040250344	20041019
US2008035639 AA	20080214	US20040576473	20041019
WO05044676 A2	20050519	WO2004EP11832	20041019
WO05044676 A3	20050825	WO2004EP11832	20041019
ZA200603122 A	20070725	ZA20060003122	20060419

Priority:
EP20030023837 20031020 WO2004EP11832 20041019 EP20040790647 20041019

Probable Assignee: BALL PACKAGING EUROPE GMBH

Assignee(s): (std): BALL PACKAGING EUROPE GMBH ; BAST BERTOLD ; BERKEFELD RAINER ; BOLL PEHKEHDZHIN JUROUP GMBKH ; MERTENS NORBERT

Assignee(s): BALL PACKAGING EUROP GMBH

Inventor(s): (std): BAST ; BAST BERTOL D ; BERKEFEL D RAJNER ; BERKEFELD ; BERKEFELD RAINER ; BERTOLD BAST ; MERTENS ; MERTENS NORBERT ; NORBERT BAST BERTOLD BERKEFELD ; NORBERT MERTENS ; RAINER BERKEFELD

Inventor(s): BAST BERTOL'D ; BAST BERTOLD BERKEFELD RAINER MERTENS NORBERT ; BERKEFEL'D RAJNER

Agent(s): EISENFUEHR SPEISER AND PARTNER ET AL; FB RICE; FB RICE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; HUNTON AND WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT; HUNTON AND WILLIAMS LLP, INTELLECTUAL PROPERTY DEPARTMENT; NTD PATENT AND TRADE MARK AGENCY LTD

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT409652 E	20081015	LSGT	+	granted / extensions (spc,	

				cpc, pte)	
AT409652 E	20090415	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT409652 E	20231020	PEXP		Calculated Patent Term Expiry	
AU2004287564 AA	20050519	LSPB	+	published / reissued	
AU2004287564 AA	20110512	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
BRPI0415670 A	20061219	LSPB	+	published / reissued	
BRPI0415670 A	20120515	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	Text: REFERENTE A 7A ANUIDADE.
BRPI0415670 A	20121009	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	Text: REFERENTE AO DESPACHO 8.6 PUBLICADO NA RPI 2158 DE 15/05/2012.
CA2542528 AA	20060412	LSPB	+	published / reissued	
CA2542528 AA	20101019	LSLE	-FZDE	DEAD	
CN1878701 A	20061213	LSPB	+	published / reissued	
CN1878701 A	20061213	LSPB	+C06	PUBLICATION	
CN1878701 A	20070207		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN1878701 A	20110323	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
DE60323839 D1	20091022	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60323839 D1	20091022	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
EP1526079 A1	20050427	LSPB	+	published / reissued	
EP1526079 A1	20050427		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR
EP1526079 A1	20050427		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL LT LV MK
EP1526079 A1	20051019	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20050216
EP1526079 A1	20060118	LSFE	+AKX	DESIGNATION FEES PAID	Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR
EP1526079 A1	20061025	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20051228
EP1526079 A1	20080305		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 8/02 20060101AFI20080130BHEP
EP1526079 A1	20080305		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 8/04 20060101ALI20080130BHEP
EP1526079 B1	20081001	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1526079 B1	20081001		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

EP1526079 B1	20081001	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP1526079 B1	20081015	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP1526079 B1	20081112	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP1526079 B1	20081113		REF	CORRESPONDS TO:	Date of Ref document: 20081113 Kind code of Ref document: P Ref document number: 60323839 Country of Ref document: DE
EP1526079 B1	20090120	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GR Ref document number: 20080403582 Ref legal event code: EP Country of Ref document: GR
EP1526079 B1	20090227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081001 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP1526079 B1	20090401	LSGT	REG	REFERENCE TO A NATIONAL CODE	Kind code of Ref document: T3 Ref country code: ES Ref document number: 2315451 Ref legal event code: FG2A Country of Ref document: ES
EP1526079 B1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081001 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP1526079 B1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090101 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP1526079 B1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP1526079 B1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081001 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP1526079 B1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090302 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP1526079 B1	20090529	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP1526079 B1	20090722	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP1526079 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081001 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BE
EP1526079 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081001 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
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EP1526079 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081001 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
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EP1526079 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090101 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
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EP1526079 B1	20090930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081001 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP1526079 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP1526079 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP1526079 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP1526079 B1	20100129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20091105 Year of fee payment: 7 Country of Ref document: DE
EP1526079 B1	20100129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20091026 Year of fee payment: 7 Country of Ref document: ES
EP1526079 B1	20100129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20091012 Year of fee payment: 7 Country of Ref document: TR
EP1526079 B1	20100226	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20091027 Year of fee payment: 7 Country of Ref document: NL
EP1526079 B1	20100430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20091110 Year of fee payment: 7 Country of Ref document: FR
EP1526079 B1	20100430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20091023 Year of fee payment: 7 Country of Ref document: GB
EP1526079 B1	20100630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM	Payment date: 20091022 Year of fee payment: 7 Country of Ref document: GR

				NATIONAL OFFICE TO EPO]	
EP1526079 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1526079 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20081001 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP1526079 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090402 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HU
EP1526079 B1	20110518	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110501 Ref country code: NL Ref legal event code: V1
EP1526079 B1	20110629	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20101020 Ref country code: EP
EP1526079 B1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110503 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GR
EP1526079 B1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101102 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FR
EP1526079 B1	20110729	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110630 Ref country code: FR Ref legal event code: ST
EP1526079 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110501 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: NL
EP1526079 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GB
EP1526079 B1	20110901	LSDW	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110502 Ref country code: DE Ref document number: 60323839 Ref legal event code: R119 Country of Ref document: DE
EP1526079 B1	20111118	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20111118 Ref country code: ES Ref legal event code: FD2A
EP1526079 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101021 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: ES
EP1526079 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: TR
EP1526079 B1	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110502 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DE
EP1526079 B1	20231020	PEXP		Calculated Patent	

				Term Expiry	
EP1682419 A2	20060726	LSPB	+	published / reissued	
EP1682419 A2	20060726	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20060505
EP1682419 A2	20060726		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR
EP1682419 A2	20060726		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: HR MK
EP1682419 A2	20070124		RAX	REQUESTED EXTENSION STATES OF THE EUROPEAN PATENT HAVE CHANGED	Payment date: 20060505 Country of Ref document: HR
EP1682419 A2	20070124		RAX	REQUESTED EXTENSION STATES OF THE EUROPEAN PATENT HAVE CHANGED	Payment date: 20060515 Country of Ref document: MK
EP1682419 A2	20070309		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1093718 Ref legal event code: DE Country of Ref document: HK
EP1682419 A2	20071107	LSWD	-18W	APPLICATION WITHDRAWN	Effective date: 20070928
EP1682419 A2	20130516	LSWD	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1093718 Ref legal event code: WD Country of Ref document: HK
ES2315451 T3	20090401	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2315451 T3	20231020	PEXP		Calculated Patent Term Expiry	
HK1093718 A1	20070309	LSPB	+	published / reissued	
HK1093718 A3	20070309	LSPB	+	published / reissued	
JP2007509006 T2	20070412	LSPB	+	published / reissued	
JP2007509006 T2	20070928	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20070927 Text: JAPANESE INTERMEDIATE CODE: A621
JP2007509006 T2	20100421	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20100420 Text: JAPANESE INTERMEDIATE CODE: A131
JP2007509006 T2	20100922	LSRV	-A02	DECISION OF REFUSAL	Effective date: 20100921 Text: JAPANESE INTERMEDIATE CODE: A02
KR20060120132 A	20061124	LSPB	+	published / reissued	
KR20060120132 A	20100105	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
RS20060274 A	20080807	LSPB	+	published / reissued	
RS50952 B	20100831	LSGT	+	granted / extensions (spc, cpc, pte)	
RS50952 B	20241019	PEXP		Calculated Patent Term Expiry	
RU2006111447 A	20071127	LSPB	+	published / reissued	
RU2361791 C2	20090720	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2361791 C2	20111210	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	Effective date: 20101020
RU2361791 C2	20241019	PEXP		Calculated Patent Term Expiry	
SA04250344 A	20051203	LSPB	+	published / reissued	
US2008035639 AA	20070404	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:BAST, BERTOLD;BERKEFELD, RAINIER;MERTENS, NORBERT;REEL/FRAME:019114/0667;SIGNING

					DATES FROM 20070209 TO 20070212 Owner: BALL PACKAGING EUROPE GMBH, GERMANY PartyType: owner
US2008035639 AA	20080214	LSPB	+	published / reissued	
US2008035639 AA	20100622	LSWD	EAB1	Expressly Abandoned -- During Examination	
US2008035639 AA	20100622		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: EXPRESSLY ABANDONED -- DURING EXAMINATION
WO05044676 A2	20041019	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200480030946.7 Country of Ref document: CN
WO05044676 A2	20050519	LSPB	+	published / reissued	
WO05044676 A2	20050519		+AK	DESIGNATED STATES	Kind code of Ref document: A2 Country of Ref document: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
WO05044676 A2	20050519		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A2 Country of Ref document: AM AT AZ BE BF BG BJ BW BY CF CG CH CI CM CY CZ DE DK EE ES FI FR GA GB GH GM GN GQ GR GW HU IE IT KE KG KZ LS LU MC MD ML MR MW MZ NA NE NL PL PT RO RU SD SE SI SK SL SN SZ TD TG TJ TM TR TZ UG ZM ZW
WO05044676 A2	20050713		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO05044676 A3	20060411	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 174974 Country of Ref document: IL
WO05044676 A3	20060412	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2542528 Country of Ref document: CA
WO05044676 A3	20060419	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2006536031 Country of Ref document: JP
WO05044676 A3	20060419	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200603122 Country of Ref document: ZA
WO05044676 A3	20060419	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2006/03122 Country of Ref document: ZA
WO05044676 A3	20060419	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: P-2006/0274 Country of Ref document: YU
WO05044676 A3	20060420	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2004287564 Country of Ref document: AU
WO05044676 A3	20060420	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: PA/a/2006/004368 Country of Ref document: MX
WO05044676 A3	20060420	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 10576473 Country of Ref document: US
WO05044676 A3	20060505	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2004790647 Country of Ref document: EP
WO05044676 A3	20060511	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 20041019 Kind code of Ref document: A Ref document number: 2004287564 Country of Ref document: AU
WO05044676 A3	20060511	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 2004287564 Country of Ref document: AU
WO05044676 A3	20060519	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1020067009819 Country of Ref document: KR

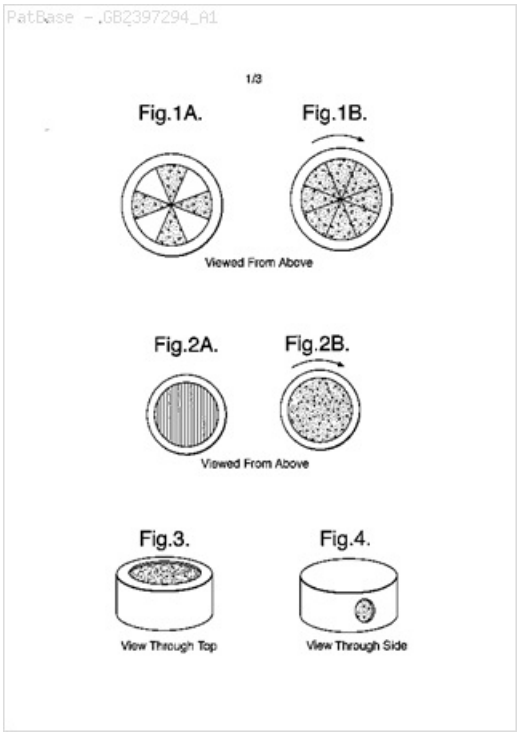
WO05044676 A3	20060522	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2006111447 Country of Ref document: RU
WO05044676 A3	20060726	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 2004790647 Country of Ref document: EP
WO05044676 A3	20061124	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1020067009819 Country of Ref document: KR
WO05044676 A3	20061219	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: PI0415670 Country of Ref document: BR
WO05044676 A3	20070928	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	Ref document number: 2004790647 Country of Ref document: EP
WO05044676 A3	20080214	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 10576473 Country of Ref document: US
ZA200603122 A	20070725	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200603122 A	20260418	PEXP		Calculated Patent Term Expiry	

75) Family number: 26835610 (GB2397294 A1)

Title: **Tamper evident** **closure** with image

Abstract: A **tamper evident** **closure** comprising a pair of members which are movable relative to each other and carry respective sections of an image such that in a first relative position only a first set of the sections is visible and in the second relative position all sections are visible. The image may be printed using any known standard techniques such as Optically Variable **Device**, Holograms, or maybe printed using standard coloured inks and so forth. In another embodiment a filter or lens to decode an image may be used (fig 2.) In a further embodiment the image may be provided through the side of the **closure** **device** (fig 5).

Classifications:
International (IPC 8-9): B65D55/02
International (IPC 1-7): B65D55/02 B65D55/06
CPC: B65D55/026



Family:

Publication number	Publication date	Application number	Application date
GB200226142 A0	20021218	GB20020026142	20021108
GB2397294 A1	20040721	GB20020026142	20021108

Priority:

GB20020026142 20021108

Probable Assignee: RUE DE INT LTD

Assignee(s): (std): RUE DE INT LTD

Assignee(s): DE LA RUE INTERNATIONAL LIMITED ; LA RUE INTERNATIONAL DE LIMITED

Inventor(s): (std): CALVERLEY SIMON GEORGE ; CHRISTOPHERSEN BRYAN JAMES ; ISHERWOOD ROLAND ; OVENSTONE JAMES

Inventor(s): BRYAN JAMES CHRISTOPHERSEN ; JAMES OVENSTONE ; ROLAND ISHERWOOD ; SIMON GEORGE CALVERLEY

Legal status (INPADOC)

View legal status timeline

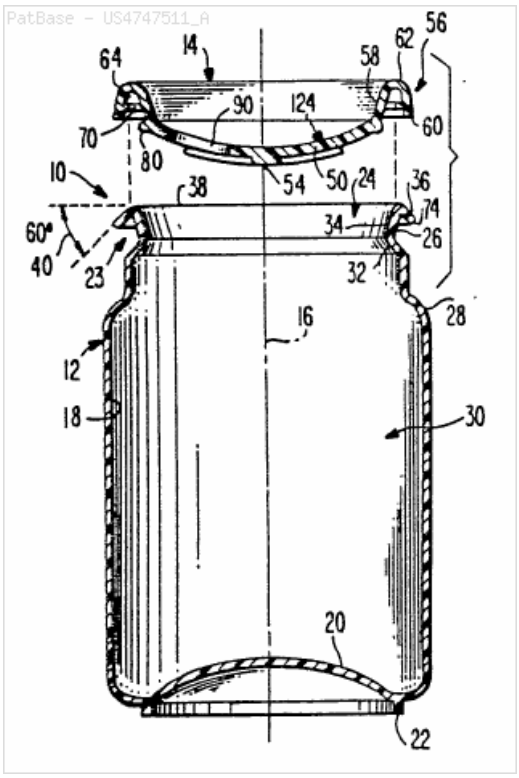
Patent	Date recorded	Event group	Code	Event	Details
GB2397294 A1	20040721	LSPB	+	published / reissued	
GB2397294 A1	20050608	LSWD	-WAP	APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)	

76) Family number: 5236155 (US4747511 A)

Title: Plug-type **openers** for plastic can ends

Abstract: An easy-**open** lid for an all-plastic beverage can is disclosed, the easy-**open** feature including a removable **closure** plug **secured** in a dispensing aperture formed in the lid of the can. A pull tab is **secured** to the **closure** plug for removal of the entire plug.

Classifications:
International (IPC 8-9): B65D17/00 B65D17/50 B65D43/02 B65D43/08 B65D43/10 B65D51/16
International (IPC 1-7): B65D17/50 B65D39/00 B65D41/02 B65D51/18 B65D55/16
CPC: B65D17/506 B65D2543/00092 B65D2543/00296 B65D2543/00407 B65D2543/00509 B65D2543/00537 B65D2543/00555 B65D2543/0062 B65D2543/00657 B65D2543/00685 B65D2543/0074 B65D2543/00796 B65D43/0208 B65D51/1683
US: 220/254.1 220/254.2 220/254.7 220/254.9 220/260 220/270 220/271 220/307 220/367.1 220/375



Family:

Publication number	Publication date	Application number	Application date
US4747511 A	19880531	US19860884136	19860710
WO8800560 A1	19880128	WO1987US01811	19870710

Priority:
US19860884136 19860710

Probable Assignee: SUN COAST CLOSURES INC

Assignee(s): (std): SUN COAST PLASTICS INC

Assignee(s): BANK OF AMERICA TEXAS NA ; CIT GROUP BUSINESS CREDIT INC ; DEUTSCHE BANK TRUST CO ; KERR GROUP INC ; NATIONSBANK NA ; NATIONSBANK OF TEXAS NA ; PLASTICS FUNDING CORP ; SAFFRON ACQUISITION CORP ; SETCO LLC ; SPBC INC ; SUN COAST CLOSURES INC ; SUN COAST IND ; SUN COAST PLASTICS OF FLORIDA INC ; TUBED PRODUCTS LLC ; WELLS FARGO BANK NATIONAL ASSOCIATION

Inventor(s): (std): DUTT HERBERT V ; WEIR DIXIE L ; YEAGER DONALD F

Designated states: JP

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
US4747511 A	19860710	LSAS	AS	ASSIGNMENT	Effective date: 19860708 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST.;ASSIGNORS:DUTT, HERBERT V.;YEAGER, DONALD F.;WEIR, DIXIE L.;REEL/FRAME:004577/0569 Owner: SUN COAST PLASTICS, INC., 2202 INDUSTRIAL BLVD., S PartyType: owner
US4747511 A	19880331	LSGT	PAT1	Patented Case	
US4747511 A	19880531	LSGT	+	granted / extensions (spc, cpc, pte)	
US4747511 A	19910410	LSAS	AS	ASSIGNMENT	Effective date: 19910313 OldParty: SECURITY INTEREST;ASSIGNORS:SUN COAST PLASTICS OF FLORIDA, INC., A CORP. OF FL;SUN COAST PLASTICS INC., A CORP. OF DE;REEL/FRAME:005670/0091 Owner: SPBC, INC., 12750 MERIT DRIVE, STE. 1300, DALLAS, PartyType: owner

US4747511 A	19910925	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US4747511 A	19940613	LSAS	AS	ASSIGNMENT	Effective date: 19940425 OldParty: ASSIGNMENT OF NOTES LIENS AND LOAN DOCUMENTS;ASSIGNOR:BANKAMERICA BUSINESS CREDIT, INC. F/K/A SPBC, INC.;REEL/FRAME:007015/0972 Owner: BANK OF AMERICA TEXAS, N.A., TEXAS PartyType: owner
US4747511 A	19960109		REMI	MAINTENANCE FEE REMINDER MAILED	
US4747511 A	19960602	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4747511 A	19960813	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 19960605
US4747511 A	19970512	LSAS	AS	ASSIGNMENT	Effective date: 19921221 OldParty: CHANGE OF NAME;ASSIGNOR:SUN COAST PLASTICS OF FLORIDA, INC.;REEL/FRAME:008495/0552 Owner: SUN COAST CLOSURES, INC., FLORIDA PartyType: owner
US4747511 A	19970512	LSAS	AS	ASSIGNMENT	Effective date: 19830531 OldParty: CHANGE OF NAME;ASSIGNOR:SUN COAST PLASTICS, INC.;REEL/FRAME:008587/0912 Owner: SUN COAST PLASTICS OF FLORIDA, INC., FLORIDA PartyType: owner
US4747511 A	19970513	LSAS	AS	ASSIGNMENT	Effective date: 19970130 OldParty: RELEASE OF SECURITY INTEREST.;ASSIGNOR:BANK OF AMERICA TEXAS, N.A.;REEL/FRAME:008495/0563 Owner: SUN COAST CLOSURES, INC., FLORIDA PartyType: owner
US4747511 A	19970516	LSAS	AS	ASSIGNMENT	Effective date: 19970131 OldParty: SECURITY INTEREST;ASSIGNOR:SUN COAST CLOSURES, INC.;REEL/FRAME:008503/0749 Owner: CIT GROUP/BUSINESS CREDIT, INC., THE, TEXAS PartyType: owner
US4747511 A	19980406	LSAS	AS	ASSIGNMENT	Effective date: 19980303 OldParty: SECURITY AGREEMENT;ASSIGNOR:SUN COAST CLOSURES, INC.;REEL/FRAME:009103/0375 Owner: NATIONSBANK OF TEXAS, N.A., TEXAS PartyType: owner
US4747511 A	20000425	LSAS	AS	ASSIGNMENT	Effective date: 19990312 OldParty: CORRECTIVE ASSIGNMENT TO CORRECT OMITTED PATENTS. AN ASSIGNMENT PREVIOUSLY RECORDED AT REEL 010113, FRAME 0322;ASSIGNOR:SUN COAST INDUSTRIES, INC.;REEL/FRAME:010756/0615 Owner: NATIONSBANK N.A., NORTH CAROLINA PartyType: owner
US4747511 A	20030915	LSAS	AS	ASSIGNMENT	Effective date: 20030813 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:BANK OF AMERICA, N.A. (FORMERLY KNOWN AS NATIONSBANK, N.A.);REEL/FRAME:014484/0506 Owner: SUN COAST INDUSTRIES, INC., PENNSYLVANIA PartyType: owner
US4747511 A	20030917	LSAS	AS	ASSIGNMENT	Effective date: 20030813 OldParty: SECURITY AGREEMENT;ASSIGNORS:KERR GROUP, INC.;SAFFRON ACQUISITION CORP.;SUN COAST INDUSTRIES, INC.;AND OTHERS;REEL/FRAME:014499/0121 Owner: WELLS FARGO BANK, NATIONAL ASSOCIATION, CALIFORNIA PartyType: owner
US4747511 A	20050617	LSAS	AS	ASSIGNMENT	Effective date: 20050603 OldParty: SECURITY AGREEMENT;ASSIGNOR:SUN COAST INDUSTRIES, INC. (AS SUCCESSOR IN INTEREST TO SUN COAST CLOSURES, INC.);REEL/FRAME:016164/0215 Owner: DEUTSCHE BANK TRUST COMPANY AMERICAS, AS COLLATERA PartyType: owner

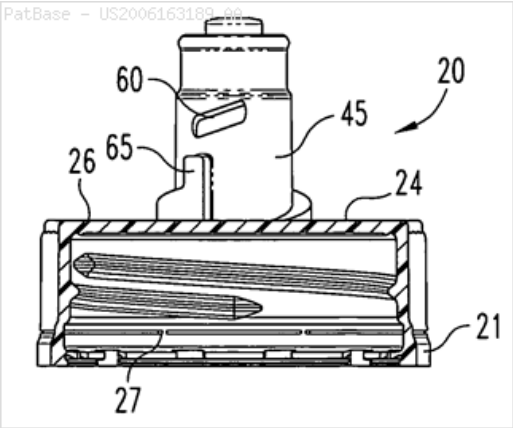
US4747511 A	20050617	LSAS	AS	ASSIGNMENT	Effective date: 20050603 OldParty: RELEASE OF SECURITY INTEREST AT REEL/FRAME NO. 14499/0121;ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION;REEL/FRAME:016195/0331 Owner: KERR GROUP, INC., PENNSYLVANIA PartyType: owner
US4747511 A	20050617	LSAS	AS	ASSIGNMENT	Effective date: 20050603 OldParty: RELEASE OF SECURITY INTEREST AT REEL/FRAME NO. 14499/0121;ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION;REEL/FRAME:016195/0331 Owner: SAFFRON ACQUISITION CORP., PENNSYLVANIA PartyType: owner
US4747511 A	20050617	LSAS	AS	ASSIGNMENT	Effective date: 20050603 OldParty: RELEASE OF SECURITY INTEREST AT REEL/FRAME NO. 14499/0121;ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION;REEL/FRAME:016195/0331 Owner: SUN COAST INDUSTRIES, INC., PENNSYLVANIA PartyType: owner
US4747511 A	20050617	LSAS	AS	ASSIGNMENT	Effective date: 20050603 OldParty: RELEASE OF SECURITY INTEREST AT REEL/FRAME NO. 14499/0121;ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION;REEL/FRAME:016195/0331 Owner: PLASTICS FUNDING CORPORATION, PENNSYLVANIA PartyType: owner
US4747511 A	20050617	LSAS	AS	ASSIGNMENT	Effective date: 20050603 OldParty: RELEASE OF SECURITY INTEREST AT REEL/FRAME NO. 14499/0121;ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION;REEL/FRAME:016195/0331 Owner: SETCO, LLC (F/K/A KERR ACQUISITION SUB I, LLC), PE PartyType: owner
US4747511 A	20050617	LSAS	AS	ASSIGNMENT	Effective date: 20050603 OldParty: RELEASE OF SECURITY INTEREST AT REEL/FRAME NO. 14499/0121;ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION;REEL/FRAME:016195/0331 Owner: TUBED PRODUCTS, LLC (F/K/A KERR ACQUISITION SUB II PartyType: owner
US4747511 A	20180130	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4747511 A	20180130	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
WO8800560 A1	19880128	LSPB	+	published / reissued	
WO8800560 A1	19880128		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: JP

77) Family number: 33148806 (US2006163189 AA)

Title: TAMPER-EVIDENT LOCKING BAND FOR A CONTAINER CLOSURE

Abstract: A container and closure combination according to one embodiment of the present invention includes, as part of the closure, a tamper-evident band. The container includes a neck portion defining a dispensing opening and including an A diameter stop. The tamper-evident closure includes a closure body and the tamper-evident band is connected to the closure body by a plurality of frangible elements. A plurality of locking tabs are included as part of the tamper-evident band and are constructed and arranged to abut up against the A diameter stop upon retrograde rotation of the closure body from the container neck. The tamper-evident band further includes a radially inwardly extending ridge that is constructed and arranged to prevent repositioning of a plurality of the locking tabs to an orientation wherein the plurality of locking tabs would avoid abutment with the A diameter stop.

Classifications:
International (IPC 8-9): A47G19/22 B65D39/00 B65D41/00 B65D41/34 B65D43/00 B65D47/00 B65D50/00 B65D51/00 B65D53/00 B65D55/02 B65D55/06
International (IPC 1-7): B65D50/00
CPC: B65D41/3428
US: 215/252 215/343 215/349 215/388 220/214 220/714 215/252P 215/343S 215/349S 215/388S 220/714S



Family:

Publication number	Publication date	Application number	Application date
CA2529968 AA	20060719	CA20052529968	20051213
CA2529968 C	20121106	CA20052529968	20051213
EP1683732 A1	20060726	EP20050257498	20051206
MXPA05012958 A1	20060718	MX2005PA12958	20051130
US2006163189 AA	20060727	US20050038868	20050119
US7575123 BB	20090818	US20050038868	20050119

Priority:
US20050038868 20050119 CA20052529968 20051213

Probable Assignee: RIEKE CORP

Assignee(s): (std): JAHAN ROWSHAN ; LAVEAULT RICHARD A ; RIEKE CORP

Assignee(s): ARROW ENGINE CO ; BANK OF NEW YORK MELLON TRUST CO NA SECOND LIEN AG ; BANK OF NEW YORK MELLON TRUST CO NA SECOND LIEN AGENT AS ; BEAUMONT BOLT AND GASKET INC ; CEQUENT CONSUMER PRODUCTS INC ; CEQUENT PERFORMANCE PRODUCTS INC ; CEQUENT TOWING PRODUCTS INC ; COMPAC CORP ; CONSUMER PRODUCTS INC ; CUYAM CORP ; DEW TECHNOLOGIES INC ; DI RITE CO ; DRAW TITE INC ; ENTEGRA FASTENER CORP ; FULTON PERFORMANCE PRODUCTS INC ; GARCEAU DENIS ; HAMMERBLOW ACQUISITION CORP ; HAMMERBLOW CO LLC ; HI VOL PRODUCTS LLC ; INDUSTRIAL BOLT AND GASKET INC ; JPMORGAN CHASE BANK NA ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; KEO CUTTERS INC ; LAKE ERIE PRODUCTS CORP ; LAMONS GASKET CO ; LAMONS METAL GASKET CO ; LOUISIANA HOSE AND RUBBER CO ; MONOGRAM AEROSPACE FASTENERS INC ; NETCONG INVESTMENTS INC ; NI IND INC ; NI WEST INC ; NORRIS CYLINDER CO ; NORRIS ENVIRONMENTAL SERVICES INC ; NORRIS IND INC ; PLASTIC FORM INC ; REESE PRODUCTS INC ; RESKA SPLINE PRODUCTS INC ; RICHARDS MICRO TOOL INC ; RIEKE LEASING CO INC ; RIEKE OF INDIANA INC ; RIEKE OF MEXICO INC ; TOWING HOLDING LLC ; TRIMAS CO LLC ; TRIMAS CORP ; TRIMAS INT HOLDINGS LLC ; WESBAR CORP

Inventor(s): (std): JAHAN ROWSHAN ; LAVEAULT RICHARD A

Inventor(s): LAVEAULT RICHARD ; RICHARD A LAVEAULT

Agent(s): SMART AND BIGGAR; WOODARD EMHARDT MORIARTY MCNETT AND HENRY LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CA2529968 AA	20060719	LSPB	+	published / reissued	
CA2529968 AA	20100722	LSES	+EEER	EXAMINATION REQUEST	
CA2529968 C	20121106	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2529968 C	20160125	LSLE	-MKLA	LAPSED	Effective date: 20151214
CA2529968 C	20251213	PEXP		Calculated Patent Term Expiry	
EP1683732 A1	20060726	LSPB	+	published / reissued	

EP1683732 A1	20060726		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1683732 A1	20060726		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL BA HR MK YU
EP1683732 A1	20070404	LSFE	+AKX	DESIGNATION FEES PAID	
EP1683732 A1	20070516		REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref legal event code: 8566
EP1683732 A1	20071128	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20070127
MXPA05012958 A1	20060718	LSPB	+	published / reissued	
MXPA05012958 A1	20100107	LSGT	+FG	GRANT OR REGISTRATION	
US2006163189 AA	20060727	LSPB	+	published / reissued	
US7575123 BB	20050311	LSAS	AS	ASSIGNMENT	Effective date: 20050112 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:LAVEAULT, RICHARD A.;JAHAN, ROWSHAN;REEL/FRAME:015883/0806 Owner: RIEKE CORPORATION, INDIANA PartyType: owner
US7575123 BB	20090729	LSGT	PAT1	Patented Case	
US7575123 BB	20090818	LSGT	+	granted / extensions (spc, cpc, pte)	
US7575123 BB	20100323	LSAS	AS	ASSIGNMENT	Effective date: 20100318 OldParty: SECURITY AGREEMENT;ASSIGNORS:TRIMAS CORPORATION;TRIMAS COMPANY LLC;ARROW ENGINE COMPANY;AND OTHERS;REEL/FRAME:024120/0535 Owner: THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., A PartyType: owner
US7575123 BB	20100504	LSAS	AS	ASSIGNMENT	Effective date: 20020606 OldParty: SECURITY AGREEMENT;ASSIGNORS:TRIMAS COMPANY LLC;TRIMAS CORPORATION;ARROW ENGINE COMPANY;AND OTHERS;REEL/FRAME:024390/0471 Owner: JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT,NEW PartyType: owner
US7575123 BB	20100504	LSAS	AS	ASSIGNMENT	Effective date: 20020606 OldParty: SECURITY AGREEMENT;ASSIGNORS:TRIMAS COMPANY LLC;TRIMAS CORPORATION;ARROW ENGINE COMPANY;AND OTHERS;REEL/FRAME:024390/0471 Owner: JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, NE PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: TRIMAS CORPORATION, MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: ARROW ENGINE COMPANY, OKLAHOMA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: BEAUMONT BOLT & GASKET, INC., TEXAS PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: CEQUENT CONSUMER

					PRODUCTS, INC., OHIO PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: CEQUENT PERFORMANCE PRODUCTS, INC., MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: CEQUENT TOWING PRODUCTS, INC., MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: COMPAC CORPORATION, NEW JERSEY PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: CONSUMER PRODUCTS, INC., WISCONSIN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: CUYAM CORPORATION, OHIO PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: DEW TECHNOLOGIES, INC., MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: DI-RITE COMPANY, OHIO PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: ENTEGRA FASTENER CORPORATION, ILLINOIS PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: FULTON PERFORMANCE PRODUCTS, INC., WISCONSIN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: HAMMERBLOW ACQUISITION CORP., WISCONSIN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: THE HAMMERBLOW COMPANY, LLC, WISCONSIN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: HI-VOL PRODUCTS LLC, MICHIGAN PartyType: owner

US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: INDUSTRIAL BOLT & GASKET, INC., LOUISIANA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: KEO CUTTERS, INC., MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: LAKE ERIE PRODUCTS CORPORATION, MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: LAMONS GASKET COMPANY, TEXAS PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: LAMONS METAL GASKET CO., TEXAS PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: LOUISIANA HOSE & RUBBER CO., LOUISIANA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: MONOGRAM AEROSPACE FASTENERS, INC., CALIFORNIA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: NETCONG INVESTMENTS, INC., NEW JERSEY PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: NI INDUSTRIES, INC., ILLINOIS PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: NI WEST, INC., MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: NORRIS CYLINDER COMPANY, TEXAS PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: NORRIS ENVIRONMENTAL SERVICES, INC., MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED

					PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: NORRIS INDUSTRIES, INC., CALIFORNIA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: PLASTIC FORM, INC., INDIANA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: REESE PRODUCTS, INC., INDIANA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: RESKA SPLINE PRODUCTS, INC., MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: RIEKE CORPORATION, INDIANA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: RIEKE OF INDIANA, INC., INDIANA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: RIEKE LEASING CO., INCORPORATED, INDIANA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: RIEKE OF MEXICO, INC., INDIANA PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: TOWING HOLDING LLC, MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: TRIMAS COMPANY LLC, MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: TRIMAS INTERNATIONAL HOLDINGS LLC, MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: WESBAR CORPORATION, WISCONSIN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE

					BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: DRAW-TITE, INC., MICHIGAN PartyType: owner
US7575123 BB	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: RICHARDS MICRO-TOOL, INC., MASSACHUSETTS PartyType: owner
US7575123 BB	20110807	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: SECURITY AGREEMENT;ASSIGNORS:ARROW ENGINE COMPANY, AN OKLAHOMA CORPORATION;CEQUENT CONSUMER PRODUCTS, INC., AN OHIO CORPORATION;CEQUENT PERFORMANCE PRODUCTS, INC., A MICHIGAN CORPORATION;AND OTHERS;REEL/FRAME:026712/0001 Owner: JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, NE PartyType: owner
US7575123 BB	20121113	LSAS	AS	ASSIGNMENT	Effective date: 20121107 OldParty: RELEASE OF SECURITY INTEREST;ASSIGNOR:THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A.;REEL/FRAME:029291/0265 Owner: TRIMAS CORPORATION, MICHIGAN PartyType: owner
US7575123 BB	20130121	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7575123 BB	20131115	LSAS	AS	ASSIGNMENT	Effective date: 20131016 OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591 Owner: RIEKE CORPORATION, INDIANA PartyType: owner
US7575123 BB	20131115	LSAS	AS	ASSIGNMENT	Effective date: 20131016 OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591 Owner: ARROW ENGINE COMPANY, OKLAHOMA PartyType: owner
US7575123 BB	20131115	LSAS	AS	ASSIGNMENT	Effective date: 20131016 OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591 Owner: CEQUENT CONSUMER PRODUCTS, INC., OHIO PartyType: owner
US7575123 BB	20131115	LSAS	AS	ASSIGNMENT	Effective date: 20131016 OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591 Owner: CEQUENT PERFORMANCE PRODUCTS, INC., MICHIGAN PartyType: owner
US7575123 BB	20131115	LSAS	AS	ASSIGNMENT	Effective date: 20131016 OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591 Owner: MONOGRAM AEROSPACE FASTENERS, INC., CALIFORNIA PartyType: owner
US7575123 BB	20131115	LSAS	AS	ASSIGNMENT	Effective date: 20131016 OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591 Owner: LAMONS GASKET COMPANY, TEXAS PartyType: owner
US7575123 BB	20150702	LSAS	AS	ASSIGNMENT	Effective date: 20150630 OldParty: SECURITY INTEREST;ASSIGNORS:TRIMAS CORPORATION;TRIMAS COMPANY LLC;ARMINAK & ASSOCIATES, LLC;AND OTHERS;REEL/FRAME:036051/0483 Owner: JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL PartyType: owner
US7575123 BB	20150716	LSAS	AS	ASSIGNMENT	Effective date: 20150630 OldParty: RELEASE OF SECURITY INTEREST IN PATENTS PREVIOUSLY RECORDED AT REEL/FRAME (024120/0535);ASSIGNOR:THE BANK

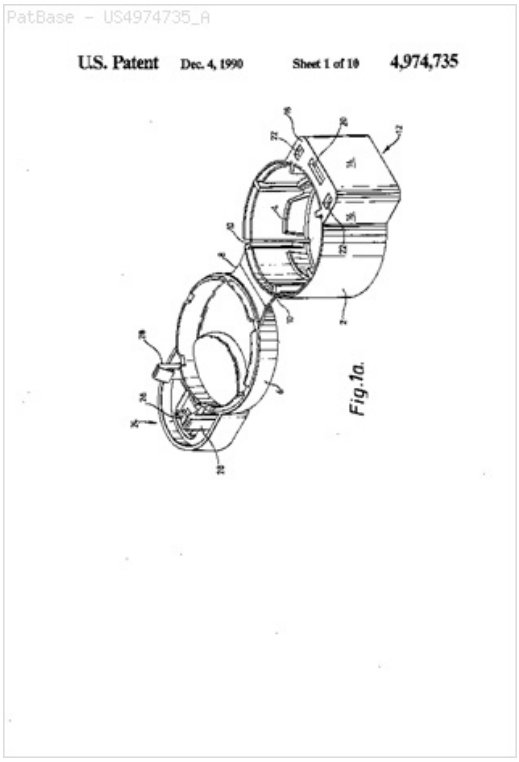
					OF NEW YORK MELLON TRUST COMPANY, N.A., AS SECOND LIEN AGENT;REEL/FRAME:036125/0710 Owner: CEQUENT CONSUMER PRODUCTS, INC., OHIO PartyType: owner
US7575123 BB	20170331		REMI	MAINTENANCE FEE REMINDER MAILED	
US7575123 BB	20170918	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7575123 BB	20170918	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7575123 BB	20170918	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7575123 BB	20171010	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20170818
US7575123 BB	20270727	PEXP		Calculated Patent Term Expiry (PTA 919 days)	

78) Family number: 3695688 (US4974735 A)

Title: **CLOSURE**

Abstract: The application describes a **closure** for a **container**, the **closure** comprising a first part to be mounted on the **container** and a second part pivotally connected to the first part to close upon the first part. First **tamper-evident** means are provided between the two parts and a catch is provided on one of the parts. The catch is movable between a first neutral position and a second position in which it can connect with the other part, the catch in its second position forming second **tamper-evident** means. The catch is preferably provided on the second part and it is pivotable between its said two positions.

Classifications:
International (IPC 8-9): A61J1/05 B65D41/32 B65D41/58 B65D43/16 B65D47/08 B65D55/02
International (IPC 1-7): A61J1/05 B65D41/32 B65D43/16 B65D55/02 B65D55/2
CPC: B65D2401/00 B65D41/58 B65D47/0838 B65D55/024
US: 215/235 215/237 215/250 215/253 220/239 220/265 220/266



Family:

Publication number	Publication date	Application number	Application date
AT88968 E	19930515	AT19900301110T	19900202
CA2009192 AA	19900803	CA19902009192	19900202
DE69001491 D1	19930609	DE19906001491T	19900202
DE69001491 T2	19930812	DE19906001491T	19900202
EP0381516 A2	19900808	EP19900301110	19900202
EP0381516 A3	19910123	EP19900301110	19900202
EP0381516 B1	19930505	EP19900301110	19900202
ES2041130 T3	19931101	ES19900301110T	19900202
JP2296667 A2	19901207	JP19900024297	19900202
US4974735 A	19901204	US19900474269	19900202

Priority:
GB19890002384 19890203 EP19900301110 19900202 CA19902009192 19900202

Probable Assignee: GLAXOSMITHKLINE PLC
Assignee(s): (std): GLAXO GROUP LTD ; GLAXOSMITHKLINE PLC ; NEWELL ROBERT E ; RAND PAUL K
Assignee(s): GLAXO GROUP LIMITED ; GLAXO GROUP LTD LONDON GB
Inventor(s): (std): NEWELL ROBERT E ; NEWELL ROBERT EDWARD ; POORU KENESU RANDO ; RAND PAUL K ; RAND PAUL KENNETH ; ROBAATO EDOWAADO NEUERU
Inventor(s): NEWELL ROBERT EDWARD WARE HERTFORDSHIRE SG12 0DG GB ; RAND PAUL KENNETH WARE HERTFORDSHIRE SG12 0DG GB
Agent(s): RICHES MCKENZIE AND HERBERT LLP
Designated states: AT BE CH DE DK ES FR GB IT LI NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT88968 E	19930515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT88968 E	19931115	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	

AT88968 E	20100202	PEXP		Calculated Patent Term Expiry	
CA2009192 AA	19900803	LSPB	+	published / reissued	
CA2009192 AA	19940802	LSLE	-FZDE	DEAD	
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DE69001491 D1	19950216	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
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DE69001491 T2	19950216	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
EP0381516 A2	19900808	LSPB	+	published / reissued	
EP0381516 A2	19900808		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE CH DE DK ES FR GB IT LI NL SE
EP0381516 A3	19910123		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A3 Country of Ref document: AT BE CH DE DK ES FR GB IT LI NL SE
EP0381516 A3	19910911	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19910716
EP0381516 A3	19920812	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 19920626
EP0381516 B1	19930505	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0381516 B1	19930505		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE CH DE DK ES FR GB IT LI NL SE
EP0381516 B1	19930505	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19930505 Country of Ref document: AT
EP0381516 B1	19930505	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19930505 Country of Ref document: BE
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EP0381516 B1	19930505		REF	CORRESPONDS TO:	Ref document number: 88968 Kind code of Ref document: T Date of Ref document: 19930515 Country of Ref document: AT

EP0381516 B1	19930609		REF	CORRESPONDS TO:	Ref document number: 69001491 Date of Ref document: 19930609 Country of Ref document: DE
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EP0381516 B1	19930802		+ITF	IT: TRANSLATION FOR A EP PATENT FILED	PartyType: owner Owner: SOCIETA' ITALIANA BREVETTI S.P.A.
EP0381516 B1	19930813	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP0381516 B1	19931101	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: ES Ref legal event code: FG2A Ref document number: 2041130 Kind code of Ref document: T3 Country of Ref document: ES
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EP0381516 B1	19940901	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19940901 Country of Ref document: NL
EP0381516 B1	19940928	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Ref country code: EP Effective date: 19940202
EP0381516 B1	19941017	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	Ref country code: EP
EP0381516 B1	19941031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19941031 Country of Ref document: FR
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EP0381516 B1	19941230	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: ST Ref country code: FR
EP0381516 B1	19990701	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 19990601 Ref country code: ES Ref legal event code: FD2A
EP0381516 B1	20050202	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20050202 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IT
EP0381516 B1	20050202	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES;WARNING: LAPSES OF ITALIAN PATENTS WITH EFFECTIVE DATE BEFORE 2007 MAY HAVE OCCURRED AT ANY TIME BEFORE 2007. THE CORRECT EFFECTIVE DATE MAY BE DIFFERENT FROM THE ONE RECORDED. Lapsed date: 20050202 Country of Ref document: IT
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ES2041130 T3	19931101	LSGT	+	granted / extensions (spc, cpc, pte)	

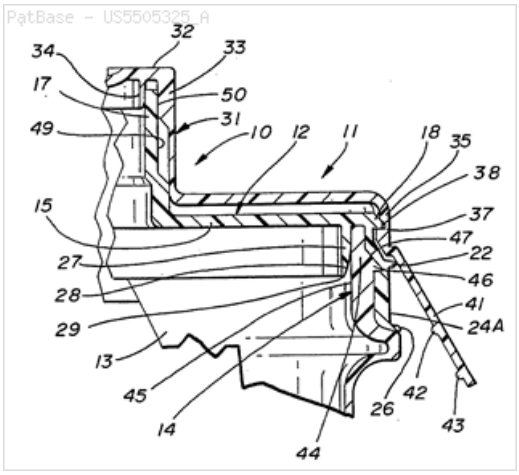
ES2041130 T3	19931101	LSGT	+FG2A	DEFINITIVE PROTECTION	Ref document number: 381516 Country of Ref document: ES
ES2041130 T3	20100202	PEXP		Calculated Patent Term Expiry	
JP2296667 A2	19901207	LSPB	+	published / reissued	
US4974735 A	19900326	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST.;ASSIGNORS:NEWELL, ROBERT E.;RAND, PAUL K.;REEL/FRAME:005269/0501 Effective date: 19900306 Owner: GLAXO GROUP LIMITED, ENGLAND PartyType: owner
US4974735 A	19901003	LSGT	PAT1	Patented Case	
US4974735 A	19901204	LSGT	+	granted / extensions (spc, cpc, pte)	
US4974735 A	19940712		REMI	MAINTENANCE FEE REMINDER MAILED	
US4974735 A	19941204	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4974735 A	19950214	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 19941207
US4974735 A	20100202	PEXP		Calculated Patent Term Expiry	
US4974735 A	20180128	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4974735 A	20180128	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

79) Family number: 8671474 (US5505325 A)

Title: **TAMPER EVIDENT** DUAL NON-REPLACEABLE SNAP-ON CAP

Abstract: A **tamper evident** dual snap on cap and spout for a plastic bottle neck has a removable first **closure** having an upper skirt and an upstanding spout with an inwardly spaced sealing flange. A tear skirt joined to the lower most edge of the upper skirt with a circumferential tear line and depending tab extending therefrom. A second **closure** has an annular band engageable on a portion of the bottle neck, an inwardly spaced sealing flange and a pour spout engageable with the upstanding spout and inwardly spaced sealing flange of the first **closure**. Removal of the tear skirt allows removal of the first **closure** and access to the **closure**'s pour spout.

Classifications:
International (IPC 8-9): B65D47/12 B65D51/18 B65D55/06
International (IPC 1-7): B65D47/12 B65D51/18 B65D55/06
CPC: B65D2401/25 B65D47/127 B65D2101/0038
US: 220/254 220/257.1 222/541.9



Family:

Publication number	Publication date	Application number	Application date
AU199535391 A1	19960710	AU19950035391	19950825
AU685681 B2	19980122	AU19950035391	19950825
BRPI9510305 A	19971111	BR1995PI10305	19950825
CA2207649 AA	19970613	CA19952207649	19950825
EP0796205 A1	19970924	EP19950932312	19950825
EP0796205 A4	19991020	EP19950932312	19950825
JP10510784 T2	19981020	JP19960512777T	19950825
KR19987000222 A	19980330	KR19970704172	19950825
KR987000222 A	19980330	KR19970704172	19970620
MX9704492 A1	19981031	MX19970004492	19970617
US5505325 A	19960409	US19940360337	19941221
WO9619391 A1	19960627	WO1995US10766	19950825

Priority:
US19940360337 19941221 WO1995US10766 19950825

Probable Assignee: COUNTRY FRESH LLC

Assignee(s): (std): THOMPSON BEVERAGE SYSTEMS INC ; THOMPSON RICHARD

Assignee(s): BURNETT DANIEL B ; COUNTRY FRESH LLC ; DEAN INTELLECTUAL PROPERTY SERVICES LP ; DISALVATORE HANK ; MORINI ALAN JR ; O LEARY MELVIN JR ; THOMPSON BEVERAGE ACQUISITION CORP ; THOMPSON RICHARD C ; TOWNS EDWARD

Inventor(s): (std): BURNETT DANIEL B ; DISALVATORE HANK ; MORINI ALAN JR ; MORINI JR ALAN ; O LEARY JR MELVIN ; O LEARY MELVIN JR ; THOMPSON RICHARD ; TOWNS EDWARD

Inventor(s): ALAN MORINI JR ; DANIEL B BURNETT ; EDWARD TOWNS ; HANK DISALVATORE ; MELVIN O LEARY JR ; RICHARD THOMPSON

Agent(s): GOWLING LAFLEUR HENDERSON LLP; PHILLIPS ORMONDE FITZPATRICK

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG UZ VN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199535391 A1	19960710	LSPB	+	published / reissued	
AU685681 B2	19980122	LSGT	+	granted / extensions (spc, cpc, pte)	
AU685681 B2	20010329	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU685681 B2	20150825	PEXP		Calculated Patent Term Expiry	
BRPI9510305 A	19971111	LSPB	+	published / reissued	

BRPI9510305 A	20000704		-FB36	TECHNICAL AND FORMAL REQUIREMENTS: REQUIREMENT - ARTICLE 36 OF INDUSTRIAL PROPERTY LAW	
BRPI9510305 A	20010410	LSRV	-FA8	DISMISSAL: DISMISSAL - ARTICLE 36, PAR. 1 OF INDUSTRIAL PROPERTY LAW	
CA2207649 AA	19970613	LSPB	+	published / reissued	
CA2207649 AA	20030825	LSLE	-FZDE	DEAD	
EP0796205 A1	19970924	LSPB	+	published / reissued	
EP0796205 A1	19970924	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19970721
EP0796205 A1	19970924		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: BE DE ES FR GB IT NL
EP0796205 A1	19991006	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: THOMPSON BEVERAGE ACQUISITION CORP. PartyType: owner
EP0796205 A4	19991020	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	Effective date: 19990906
EP0796205 A4	19991020		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A4 Country of Ref document: BE DE ES FR GB IT NL
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EP0796205 A4	20000719	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 19991202
JP10510784 T2	19981020	LSPB	+	published / reissued	
KR19987000222 A	19980330	LSPB	+	published / reissued	
KR987000222 A	19980330	LSPB	+	published / reissued	
KR987000222 A	20001025	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
MX9704492 A1	19981031	LSPB	+	published / reissued	
US5505325 A	19950327	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:TOWNS, EDWARD;O'LEARY, MELVIN;MORINI, ALAN, JR.;AND OTHERS;REEL/FRAME:007412/0215 Owner: THOMPSON, RICHARD Effective date: 19950321
US5505325 A	19950821	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THOMPSON, RICHARD;REEL/FRAME:007689/0917 PartyType: owner Owner: THOMPSON BEVERAGE SYSTEMS, INC., FLORIDA Effective date: 19950813
US5505325 A	19960328	LSGT	PAT1	Patented Case	
US5505325 A	19960409	LSGT	+	granted / extensions (spc, cpc, pte)	
US5505325 A	19980804	LSAS	AS	ASSIGNMENT	Effective date: 19970615 Owner: THOMPSON, RICHARD C., FLORIDA OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THOMPSON BEVERAGE SYSTEMS, INC.;REEL/FRAME:009360/0165 PartyType: owner
US5505325 A	19990610	LSAS	AS	ASSIGNMENT	Owner: THOMPSON BEVERAGE ACQUISITION CORPORATION, TEXAS OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:THOMPSON, RICHARD C.;REEL/FRAME:010007/0451 PartyType: owner Effective date: 19990304
US5505325 A	19991007	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4

US5505325 A	20030508	LSAS	AS	ASSIGNMENT	Owner: DEAN INTELLECTUAL PROPERTY SERVICES, L.P., TEXAS OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:COUNTRY FRESH, LLC;REEL/FRAME:013634/0425 PartyType: owner Effective date: 20021001
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US5505325 A	20141221	PEXP		Calculated Patent Term Expiry	
US5505325 A	20180125	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
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WO9619391 A1	19960627	LSPB	+	published / reissued	
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WO9619391 A1	19960627		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AT BE BF BJ CF CG CH CI CM DE DK ES FR GA GB GN GR IE IT KE LU MC ML MR MW NE NL PT SD SE SN SZ TD TG UG
WO9619391 A1	19960725		DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)	
WO9619391 A1	19960925		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO9619391 A1	19970613	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2207649 Country of Ref document: CA
WO9619391 A1	19970613	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2207649 Country of Ref document: CA
WO9619391 A1	19970617	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: PA/a/1997/004492 Country of Ref document: MX
WO9619391 A1	19970620	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1019970704172 Country of Ref document: KR
WO9619391 A1	19970715	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1995932312 Country of Ref document: EP
WO9619391 A1	19970924	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1995932312 Country of Ref document: EP
WO9619391 A1	19971016	LSWD	REG	REFERENCE TO NATIONAL CODE	Ref country code: DE Ref legal event code: 8642
WO9619391 A1	19980330	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1019970704172 Country of Ref document: KR
WO9619391 A1	19991202	LSWD	-WWW	WIPO	Ref document number: 1995932312

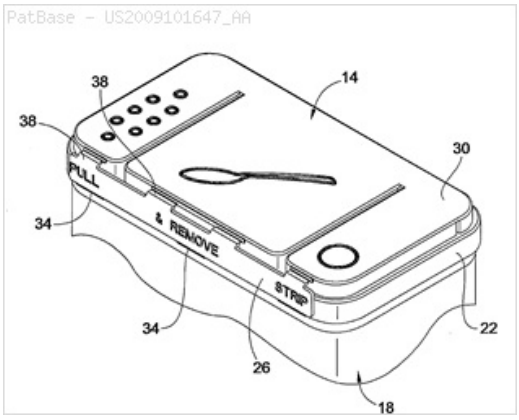
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80) Family number: 42438525 (US2009101647 AA)

Title: **TAMPER EVIDENT** PLASTIC DISPENSING **CONTAINER**

Abstract: Tamper-resistance is provided in spice **container** **closures** and **containers** through use of **tamper-evident** and/or tamper-resistant elements. A **tamper evident** **closure** includes a base, a cover, and a tamper strip, with the tamper strip being joined to the base and cover by a first hinge connecting the tamper strip to the base and a second hinge connecting the tamper strip to the cover. At least one dispensing port in the base is selectively coverable by a flap of the cover. The tamper strip is adapted to be manually torn away and fully released from the cover and base. The flap is hinged to the cover by a third hinge. In addition, or alternatively, a snap **lock** connection is formed between a **container** **closure** and the **container**.

Classifications:
International (IPC 8-9): B23P11/00 B65D17/00 B65D41/32 B65D43/02 B65D47/00 B65D47/08 B65D50/00 B65D51/00 B65D51/18
CPC: B65D17/4012 B65D2251/1091 B65D2401/25 B65D2543/00175 B65D2543/00296 B65D2543/00351 B65D2543/00509 B65D2543/00555 B65D2543/00629 B65D2543/00694 B65D2543/00777 B65D2543/00805 B65D43/0212 B65D47/0804 B65D47/0833 B65D51/18 Y10T29/49826
US: 220/254.2 220/265 220/266 220/788 222/153.07 222/541.5 222/541.6 222/556 29/428



Family:

Publication number	Publication date	Application number	Application date
CA2629239 AA	20081018	CA20082629239	20080417
MX2008005086 A1	20090302	MX20080005086	20080418
US2009101647 AA	20090423	US20080103985	20080416
US8292111 BB	20121023	US20080103985	20080416
US2013001228 AA	20130103	US20120610280	20120911
US8627977 BB	20140114	US20120610280	20120911
US2014091092 AA	20140403	US20130101053	20131209
US9010560 BB	20150421	US20130101053	20131209

Priority:

US20070912574P 20070418 US20080103985 20080416 US20080103385 20080416
CA20082629239 20080417 US20120610280 20120911 US20130101053 20131209

Probable Assignee: JL CLARK INC
Assignee(s): (std): CLARK J L INC ; NEWBERRY MICHAEL ; VALLEY III JOSEPH P
Assignee(s): J L CLARK INC ; VALLEY JOSEPH P III
Inventor(s): (std): NEWBERRY MICHAEL ; VALLEY III JOSEPH P ; VALLEY JOSEPH P III
Inventor(s): JOSEPH P VALLEY III ; MICHAEL NEWBERRY ; VALLEY JOSEPH P
Agent(s): BORDEN LADNER GERVAIS LLP; REINHART BOERNER VAN DEUREN PC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2629239 AA	20081018	LSPB	+	published / reissued	
CA2629239 AA	20130321	LSES	+EEER	EXAMINATION REQUEST	Effective date: 20130308
CA2629239 AA	20150614	LSLE	-FZDE	DEAD	Effective date: 20150417
MX2008005086 A1	20090302	LSPB	+	published / reissued	
MX2008005086 A1	20130404	LSGT	+FG	GRANT OR REGISTRATION	
US2009101647 AA	20090423	LSPB	+	published / reissued	
US2009101647 AA	20121003	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2013001228 AA	20130103	LSPB	+	published / reissued	
US2013001228 AA	20131224	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2014091092 AA	20140403	LSPB	+	published / reissued	
US2014091092 AA	20150401	LSGT	STCF	INFORMATION	Text: PATENTED CASE

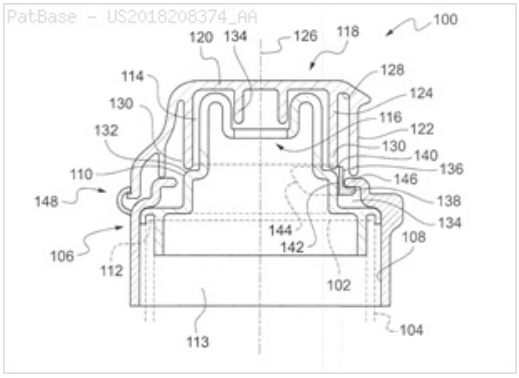
				ON STATUS: PATENT GRANT	
US8292111 BB	20080507	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:NEWBERRY, MICHAEL;VALLEY, JOSEPH P., III;REEL/FRAME:020910/0878;SIGNING DATES FROM 20080421 TO 20080423 Owner: J.L. CLARK, INC., ILLINOIS PartyType: owner
US8292111 BB	20080507	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:NEWBERRY, MICHAEL;VALLEY, JOSEPH P., III;SIGNING DATES FROM 20080421 TO 20080423;REEL/FRAME:020910/0878 Owner: J.L. CLARK, INC., ILLINOIS PartyType: owner
US8292111 BB	20121003	LSGT	PAT1	Patented Case	
US8292111 BB	20121023	LSGT	+	granted / extensions (spc, cpc, pte)	
US8292111 BB	20160425	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US8292111 BB	20200423	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 8
US8292111 BB	20310824	PEXP		Calculated Patent Term Expiry (PTA 1225 days)	
US8627977 BB	20120911	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:NEWBERRY, MICHAEL;VALLEY, JOSEPH P., III;SIGNING DATES FROM 20080421 TO 20080423;REEL/FRAME:028937/0146 Owner: J.L. CLARK, INC., ILLINOIS PartyType: owner
US8627977 BB	20131224	LSGT	PAT1	Patented Case	
US8627977 BB	20140114	LSGT	+	granted / extensions (spc, cpc, pte)	
US8627977 BB	20170714	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US8627977 BB	20280416	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US9010560 BB	20131210	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:NEWBERRY, MICHAEL;VALLEY, JOSEPH P., III;SIGNING DATES FROM 20080421 TO 20080423;REEL/FRAME:031747/0661 Owner: J.L. CLARK, INC., ILLINOIS PartyType: owner
US9010560 BB	20150401	LSGT	PAT1	Patented Case	
US9010560 BB	20150421	LSGT	+	granted / extensions (spc, cpc, pte)	
US9010560 BB	20181022	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 4
US9010560 BB	20280416	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	

81) Family number: 64782025 (US2018208374 AA)

Title: TAMPER-EVIDENT CLOSURE

Abstract: A closure (**100**) for a container (**104**) comprises a base (**106**) and a spout (**110**) disposed upon a mouth of said container (**104**) and defining a void space (**134**) between them; a cap (**118**) which comprises an inner body (**124**) concentrically disposed within an outer body (**122**), said cap configured to be disposed on said base (**106**) so as to seal therewith; and at least one tamper-evident device (**136**) extending between and locking together said cap (**118**) and said base (**106**), said tamper-evident device (**136**) comprising a flattened member extending from an edge of said inner body member (**124**) over at least one frangible link (**140**) and engaging said base (**106**) such that when the cap (**118**) is opened said at least one frangible link (**140**) ruptures, said tamper-evident device (**136**) consequently falling into and being partially obscured by said void space (**134**).

Classifications:
International (IPC 8-9): B65D47/06 B65D47/08 B65D55/02
CPC: B65D2401/15 B65D47/06 B65D47/08 B65D47/0804 B65D55/024
US: 1/1 215/253



Family:

Publication number	Publication date	Application number	Application date
CA2991262 AA	20180103	CA20162991262	20160715
CN107735335 A	20180223	CN201680039648	20160715
CN107735335 B	20191220	CN201680039648	20160715
EP3325366 A1	20180530	EP20160738822	20160715
MX2018000367 A1	20180314	MX20180000367	20160715
US2018208374 AA	20180726	US20160744236	20160715
WO17013016 A1	20170126	WO2016EP66905	20160715

Priority:
EP20150177383 20150717 WO2016EP66905 20160715

Probable Assignee: NESTLE WATERS MANAGEMENT AND TECHNOLOGY SAS

Assignee(s): (std): NESTEC SA

Assignee(s): CERVENY JEAN PAUL ; DES PRODUITS NESTLE SA SOC ; NESTLE WATERS MANAGEMENT AND TECHNOLOGY SAS

Inventor(s): (std): CERVENY JEAN PAUL ; JEAN PAUL CERVENY

Agent(s): BORDEN LADNER GERVAIS LLP; ROSOLEN DELARUE KATELL

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2991262 AA	20180103	LSPB	+	published / reissued	
CN107735335 A	20180223	LSPB	+	published / reissued	
CN107735335 A	20180223	LSPB	PB01	PUBLICATION	
CN107735335 A	20180223	LSPB	PB01	公开	Text: 公开 (Disclosure)
CN107735335 A	20180807		SE01	ENTRY INTO FORCE OF REQUEST FOR SUBSTANTIVE EXAMINATION	
CN107735335 A	20180807		SE01	实质审查请求的生效	Text: 实质审查的生效 (Force of substantive review)
CN107735335 A	20190806	LSAS	TA01	TRANSFER OF PATENT APPLICATION RIGHT	
CN107735335 A	20190806	LSAS	TA01	专利申请权的转移	Applicant After Change: 雀巢产品有限公司 (NESTLE PRODUCTS LTD) Applicant Before Change: 雀巢产品技术援助有限公司 (NESTEC SA) Effective date: 20190717 Text: 专利申请权、专利权的转移 (Transfer of

					Patent Application or Patent Right)
CN107735335 B	20191220	LSGT	+	granted / extensions (spc, cpc, pte)	
CN107735335 B	20191220	LSGT	+GR01	PATENT GRANT	
CN107735335 B	20191220	LSGT	+GR01	授权	Text: 授权 (Authorization)
CN107735335 B	20360715	PEXP		Calculated Patent Term Expiry	
EP3325366 A1	20180530	LSPB	+	published / reissued	
EP3325366 A1	20180530	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20180219
EP3325366 A1	20180530		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3325366 A1	20180530		+AV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT	Country of Ref document: MA MD
EP3325366 A1	20180530		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3325366 A1	20181024		DAV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT (DELETED)	
EP3325366 A1	20181024		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3325366 A1	20190710	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: SOCIETE DES PRODUITS NESTLE S.A. PartyType: owner
MX2018000367 A1	20180314	LSPB	+	published / reissued	
US2018208374 AA	20180726	LSPB	+	published / reissued	
US2018208374 AA	20180823		RFE1	Docketed New Case - Ready for Examination	
US2018208374 AA	20180823		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: DOCKETED NEW CASE - READY FOR EXAMINATION
US2018208374 AA	20190117	LSAS	AS	ASSIGNMENT	Effective date: 20160919 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:CERVENY, JEAN-PAUL;REEL/FRAME:048045/0579 Owner: NESTLE WATERS MANAGEMENT & TECHNOLOGY S.A.S., FRAN PartyType: owner
US2018208374 AA	20190117	LSAS	AS	ASSIGNMENT	Effective date: 20160204 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:NESTLE WATERS MANAGEMENT & TECHNOLOGY;REEL/FRAME:048083/0805 Owner: NESTEC S.A., SWITZERLAND PartyType: owner
US2018208374 AA	20190606	LSAS	AS	ASSIGNMENT	Effective date: 20190528 OldParty: MERGER;ASSIGNOR:NESTEC S.A.;REEL/FRAME:049391/0756 Owner: SOCIETE DES PRODUITS NESTLE S.A., SWITZERLAND PartyType: owner
US2018208374 AA	20190613	LSAS	AS	ASSIGNMENT	Effective date: 20190528 OldParty: CORRECTIVE ASSIGNMENT TO CORRECT THE ENGLISH TRANSLATION TO SHOW THE FULL AND CORRECT NEW NAME IN SECTION 51. PREVIOUSLY RECORDED AT REEL: 049391 FRAME: 0756. ASSIGNOR(S) HEREBY CONFIRMS THE MERGER;ASSIGNOR:NESTEC S.A.;REEL/FRAME:049853/0398 Owner: SOCIETE DES PRODUITS NESTLE S.A., SWITZERLAND PartyType: owner

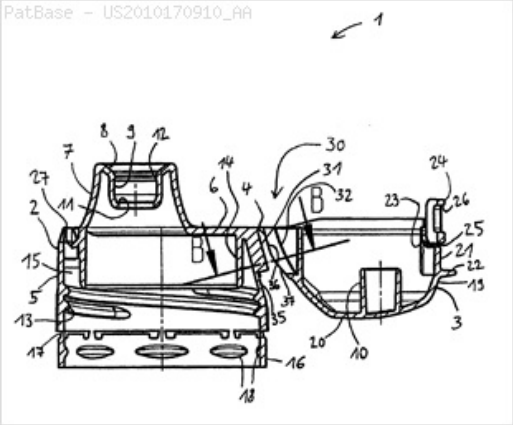
US2018208374 AA	20190731	LSES	NFA1	Non Final Action Mailed	
US2018208374 AA	20190731		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NON FINAL ACTION MAILED
US2018208374 AA	20190901		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2018208374 AA	20190901		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER
US2018208374 AA	20191227	LSES	NFA1	Non Final Action Mailed	
US2018208374 AA	20191227		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NON FINAL ACTION MAILED
US2018208374 AA	20200402		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2018208374 AA	20200402		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER
US2018208374 AA	20200914	LSES	NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
WO17013016 A1	20170126	LSPB	+	published / reissued	
WO17013016 A1	20170308		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 16738822 Country of Ref document: EP
WO17013016 A1	20180103	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2991262 Country of Ref document: CA
WO17013016 A1	20180109	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/A/2018/000367 Country of Ref document: MX
WO17013016 A1	20180112	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 15744236 Country of Ref document: US
WO17013016 A1	20180118	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO17013016 A1	20180219	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2016738822 Country of Ref document: EP

82) Family number: 43079630 (US2010170910 AA)

Title: HINGED **CLOSURE**

Abstract: A hinged **closure** for a **container**, particularly a drinking bottle, includes a lower part and an upper part, a hinge section, with which the upper part can be pivoted from a first position to a second position, in which the upper part is pivoted away from the lower part by an **opening** angle, and a retaining **device**, having a first retaining section and a second retaining section, both being detachably connected when the upper part is moved into the second position.

Classifications:
International (IPC 8-9): B65D41/02 B65D41/16 B65D47/08 B65D51/00 B65D51/04
CPC: B65D2251/1008 B65D47/0838
US: 1/1 215/254 220/810



Family:

Publication number	Publication date	Application number	Application date
DE202009000138 U1	20090319	DE200920000138U	20090105
DE502010001253 D1	20121115	DE201050001253T	20100105
EP2204333 A1	20100707	EP20100000026	20100105
EP2204333 B1	20120919	EP20100000026	20100105
ES2396402 T3	20130221	ES20100000026T	20100105
RU110363 U1	20111120	RU20090148969U	20091230
US2010170910 AA	20100708	US20090466794	20090515
US9169048 BB	20151027	US20090466794	20090515

Priority:
DE200920000138U 20090105 EP20100000026 20100105

Probable Assignee: WEENER PLASTIK AG

Assignee(s): (std): LUDEWIGS WERNER ; SCHIPPER MICHAEL ; STEINHAGEN INGOLF ; TIMMER HARTMUTH ; WEENER PLASTIK AG ; WEENER PLASTIK GMBH

Inventor(s): (std): LUDEWIGS WERNER ; SCHIPPER MICHAEL ; STEINHAGEN INGOLF ; TIMMER HARTMUTH

Agent(s): AZNAREZ PABLO; GREER BURNS AND CRAIN; GREER BURNS AND CRAIN LTD; RICKER MATHIAS; WALLINGER RICKER SCHLOTTER TOSTMANN PATENT U RECHTSANWAELTE PARTNERSCHAFT MBB

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 SM TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE202009000138 U1	20090319	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202009000138 U1	20090423	LSGT	R207	UTILITY MODEL SPECIFICATION	Effective date: 20090423
DE202009000138 U1	20120516	LSGT	+R150	UTILITY MODEL MAINTAINED AFTER PAYMENT OF FIRST MAINTENANCE FEE AFTER THREE YEARS	Effective date: 20120328
DE202009000138 U1	20150202	LSGT	+R151	UTILITY MODEL MAINTAINED AFTER PAYMENT OF SECOND MAINTENANCE FEE AFTER SIX YEARS	
DE202009000138 U1	20150312	LSGT	+R151	UTILITY MODEL MAINTAINED AFTER PAYMENT OF SECOND MAINTENANCE FEE AFTER SIX YEARS	Effective date: 20150202
DE202009000138 U1	20170203	LSGT	+R152	UTILITY MODEL MAINTAINED AFTER PAYMENT	

				OF THIRD MAINTENANCE FEE AFTER EIGHT YEARS	
DE202009000138 U1	20190105	PEXP		Calculated Patent Term Expiry	
DE202009000138 U1	20190131	LSLE	-R071	EXPIRY OF RIGHT	
DE202009000138 U1	20190131	LSLE	-R071	EXPIRY OF RIGHT	
EP2204333 A1	20100707	LSPB	+	published / reissued	
EP2204333 A1	20100707		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT 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 SE SI SK SM TR
EP2204333 A1	20100707		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL BA RS
EP2204333 A1	20110119	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20101207
EP2204333 A1	20110309	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20110209
EP2204333 A1	20120411	LSRE	RTI1	TITLE (CORRECTION)	Text: HINGED CLOSURE
EP2204333 A1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR
EP2204333 A1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP2204333 A1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2204333 A1	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130121 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2204333 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130131 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP2204333 A1	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160122 Year of fee payment: 7 Country of Ref document: ES
EP2204333 A1	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160122 Year of fee payment: 7 Country of Ref document: IT
EP2204333 A1	20160429	LSFE	+PGFP	ANNUAL FEE	Payment date: 20160119

				PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 7 Country of Ref document: DE
EP2204333 A1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160121 Year of fee payment: 7 Country of Ref document: FR
EP2204333 A1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160122 Year of fee payment: 7 Country of Ref document: GB
EP2204333 A1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151229 Year of fee payment: 7 Country of Ref document: HU
EP2204333 B1	20120919	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2204333 B1	20120919		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT 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 SE SI SK SM TR
EP2204333 B1	20120919	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D Text: NOT ENGLISH
EP2204333 B1	20120928	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP2204333 B1	20121010	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D Text: LANGUAGE OF EP DOCUMENT: GERMAN
EP2204333 B1	20121015	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20121015 Kind code of Ref document: T Ref country code: AT Ref document number: 575883 Ref legal event code: REF Country of Ref document: AT
EP2204333 B1	20121115	LSPB	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20121115 Ref country code: DE Ref document number: 502010001253 Ref legal event code: R096 Country of Ref document: DE
EP2204333 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HR
EP2204333 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2204333 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121219 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NO
EP2204333 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

				OFFICE TO EPO]	Country of Ref document: LT
EP2204333 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP2204333 B1	20130213	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20120919 Ref country code: NL Ref legal event code: VDEP
EP2204333 B1	20130221	LSGT	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130221 Kind code of Ref document: T3 Ref country code: ES Ref document number: 2396402 Ref legal event code: FG2A Country of Ref document: ES
EP2204333 B1	20130225	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20120919 Ref country code: LT Ref legal event code: MG4D
EP2204333 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP2204333 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP2204333 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121220 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP2204333 B1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP2204333 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2204333 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP2204333 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2204333 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130119 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP2204333 B1	20130430	LSLE	-PG25	LAPSED IN A	Lapsed date: 20120919

				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP2204333 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2204333 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PL
EP2204333 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130121 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2204333 B1	20130729	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HU Ref document number: E016083 Ref legal event code: AG4A Country of Ref document: HU
EP2204333 B1	20130731	LSLE	-BERE	BE: LAPSED	Effective date: 20130131 Owner: WEENER PLASTIK A.G. PartyType: owner Ref country code: EP
EP2204333 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP2204333 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20121219 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP2204333 B1	20130828	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20130620
EP2204333 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130131 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP2204333 B1	20131010	LSRE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130620 Ref country code: DE Ref document number: 502010001253 Ref legal event code: R097 Country of Ref document: DE
EP2204333 B1	20131023	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP2204333 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130131 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP2204333 B1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT	Lapsed date: 20130105 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE

				INFORMATION FROM NATIONAL OFFICE TO EPO]	
EP2204333 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MT
EP2204333 B1	20140829	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP2204333 B1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20140131 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP2204333 B1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20140131 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP2204333 B1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SM
EP2204333 B1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR
EP2204333 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20120919 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MK
EP2204333 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130105 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP2204333 B1	20160121	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 7 Country of Ref document: FR
EP2204333 B1	20160315	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20150105 Kind code of Ref document: T Ref country code: AT Ref document number: 575883 Ref legal event code: MM01 Country of Ref document: AT
EP2204333 B1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20150105 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: AT
EP2204333 B1	20170124	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 8 Country of Ref document: FR
EP2204333 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL	Payment date: 20170124 Year of fee payment: 8 Country of Ref document: FR

				OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	
EP2204333 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170125 Year of fee payment: 8 Country of Ref document: DE
EP2204333 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170125 Year of fee payment: 8 Country of Ref document: HU
EP2204333 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170125 Year of fee payment: 8 Country of Ref document: GB
EP2204333 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170124 Year of fee payment: 8 Country of Ref document: ES
EP2204333 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170125 Year of fee payment: 8 Country of Ref document: IT
EP2204333 B1	20180124	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 9
EP2204333 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180125 Year of fee payment: 9 Country of Ref document: GB
EP2204333 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180124 Year of fee payment: 9 Country of Ref document: DE
EP2204333 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180220 Year of fee payment: 9 Country of Ref document: ES
EP2204333 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180126 Year of fee payment: 9 Country of Ref document: IT
EP2204333 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171227 Year of fee payment: 9 Country of Ref document: HU
EP2204333 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180124 Year of fee payment: 9 Country of Ref document: FR

EP2204333 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190123 Year of fee payment: 10 Country of Ref document: FR
EP2204333 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190121 Year of fee payment: 10 Country of Ref document: IT
EP2204333 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190124 Year of fee payment: 10 Country of Ref document: DE
EP2204333 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190215 Year of fee payment: 10 Country of Ref document: ES
EP2204333 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190124 Year of fee payment: 10 Country of Ref document: GB
EP2204333 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200122 Year of fee payment: 11 Country of Ref document: IT
EP2204333 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200123 Year of fee payment: 11 Country of Ref document: DE
EP2204333 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20191218 Year of fee payment: 11 Country of Ref document: HU
EP2204333 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200219 Year of fee payment: 11 Country of Ref document: ES
EP2204333 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200127 Year of fee payment: 11 Country of Ref document: GB
EP2204333 B1	20200630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200123 Year of fee payment: 11 Country of Ref document: FR
EP2204333 B1	20300105	PEXP		Calculated Patent Term Expiry	
ES2396402 T3	20130221	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2396402 T3	20300105	PEXP		Calculated Patent Term	

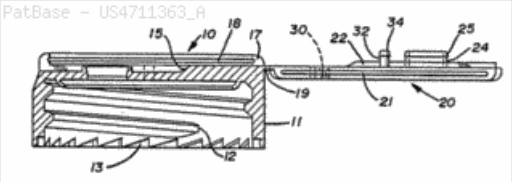
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RU110363 U1	20111120	LSGT	+	granted / extensions (spc, cpc, pte)	
RU110363 U1	20171230	PEXP		Calculated Patent Term Expiry	
US2010170910 AA	20100708	LSPB	+	published / reissued	
US2010170910 AA	20150918	LSAS	AS	ASSIGNMENT	Effective date: 20120925 OldParty: CHANGE OF NAME;ASSIGNOR:WEENER PLASTIK AG;REEL/FRAME:036604/0729 Owner: WEENER PLASTIK GMBH, GERMANY PartyType: owner
US2010170910 AA	20151007	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2010170910 AA	20151008		+SULP	SURCHARGE FOR LATE PAYMENT	
US9169048 BB	20090731	LSAS	AS	ASSIGNMENT	Effective date: 20090605 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:LUDEWIGS, WERNER;STEINHAGEN, INGOLF;SCHIPPER, MICHAEL;AND OTHERS;REEL/FRAME:023037/0238 Owner: WEENER PLASTIK AG, GERMANY PartyType: owner
US9169048 BB	20151007	LSGT	PAT1	Patented Case	
US9169048 BB	20151027	LSGT	+	granted / extensions (spc, cpc, pte)	
US9169048 BB	20190423	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 4
US9169048 BB	20310314	PEXP		Calculated Patent Term Expiry (PTA 668 days)	

83) Family number: 29680561 (US4711363 A)

Title: **Tamper evidence** **closure**

Abstract: A tamper evidencing **closure** for use on **containers** **containing** food stuffs and the like comprises multiple cap configuration intrically joined to a **closure** by a live hinge. A secondary cap is formed within the first with frangible **tamper evidence** strips and a secondary live hinge. A tubular plug depends from the underside of said secondary cap and is registerable into a dispenser **opening** within the **closure**. Assembly pins **secure** the cap to the **closure** and a annular rib on the tubular plug forms a seal around the dispensing **opening** when the tubular plug is in closed position and holds the secondary cap and plug in closed position once the frangible tear strips are broken.

Classifications:
International (IPC 8-9): B65D47/08 B65D55/02
International (IPC 1-7): B65D41/32
CPC: B65D2251/1091 B65D2255/20 B65D47/0847 B65D55/02
US: 215/237 220/254 220/254.3 220/266 220/307 220/339 220/834 222/153 222/153.07



Family:

Publication number	Publication date	Application number	Application date
US4711363 A	19871208	US19870044786	19870501

Priority:
US19870044786 19870501

Probable Assignee:	WEST PENN PLASTIC INC A PA CORP
Assignee(s): (std):	WEST PENN PLASTIC INC
Assignee(s):	WEST PENN PLASTIC INC A PA CORP
Inventor(s): (std):	MARINO MICHAEL

Legal status (INPADOC)

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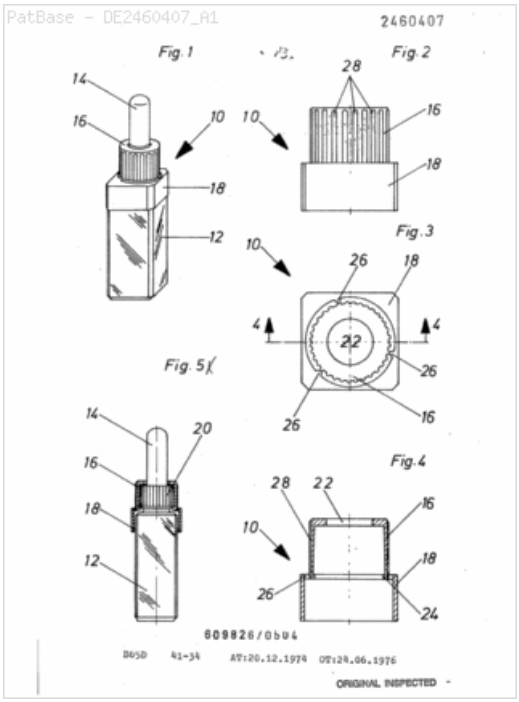
Patent	Date recorded	Event group	Code	Event	Details
US4711363 A	19870623	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: ASSIGNMENT OF ASSIGNORS INTEREST.;ASSIGNOR:MARINO, MICHAEL;REEL/FRAME:004727/0994 Effective date: 19870622 Owner: WEST PENN PLASTIC, INC., 540 SAMPSON STREET, NEW C
US4711363 A	19870623	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 19870622 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:MARINO, MICHAEL;REEL/FRAME:004727/0994 Owner: WEST PENN PLASTIC, INC., A PA. CORP.,PENNSYLVANIA
US4711363 A	19871006	LSGT	PAT1	Patented Case	
US4711363 A	19871006	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US4711363 A	19871208	LSGT	+	granted / extensions (spc, cpc, pte)	
US4711363 A	19910214	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US4711363 A	19950327	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US4711363 A	19990322	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12

84) Family number: 2220756 (DE2460407 A1)

Title: TAMPER PROOF BOTTLE STOPPER - TWO SECTIONS FOR STOPPER AND BOTTLE CONNECTED ACROSS BREAK POINTS

Abstract: A tamper proof bottle stopper has two **securing** sections connected across break **open** points which are fitted on the turning part on one side and on the bottle on the other side so that when the stopper is **opened** there is a separation of the **securing** sections at the break **open** points. The **securing** section (16) fitted to the turning part is fixed on both in the turn direction as well as in the direction of the turning axis so that it cannot be detached without destruction, whilst the **securing** section (18) fixed to the bottle (12) ifts over it loosely yet **secured** against turning in cross section shape complementary to the form of the **container**.

Classifications:
International (IPC 8-9): B65D55/02 B65D55/08
International (IPC 1-7): B65D41/34 B65D55/02
CPC: B65D55/0863



Family:

Publication number	Publication date	Application number	Application date
DE2460407 A1	19760624	DE19742460407	19741220

Priority:
DE19742460407 19741220

Probable Assignee: SANNER KG FRIEDR
Assignee(s): (std): SANNER FRIEDR KG ; SANNER KG FRIEDR
Assignee(s): FRIEDRICH SANNER KG
Inventor(s): (std): SANNER ROLF

Legal status (INPADOC)

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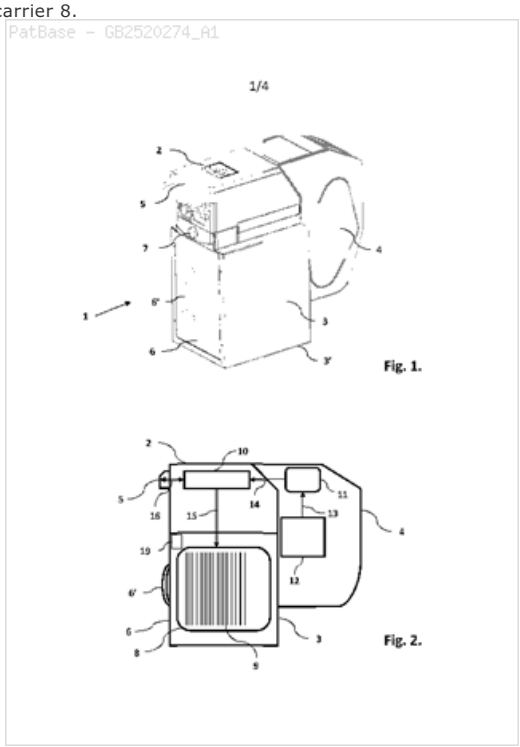
Patent	Date recorded	Event group	Code	Event	Details
DE2460407 A1	19760624	LSPB	+	published / reissued	
DE2460407 A1	19790329	LSLE	-OHJ	NON-PAYMENT OF THE ANNUAL FEE	

85) Family number: 55626242 (GB2520274 A1)

Title: A METHOD OF PACKAGING BANKNOTES

Abstract: A method of **securely** packaging banknotes comprises inserting a banknote into a banknote acceptor, the banknote acceptor including a banknote validator 2 and a **securable** **tamper-evident** banknote carrier 8; storing the banknote in the **securable** **tamper-evident** banknote carrier 8 if the banknote is determined to be valid by the banknote validator 2; printing on a first print medium 21 information relating to the contents of the **securable** **tamper-evident** banknote carrier 8; storing the first print medium in the **securable** **tamper-evident** banknote carrier 8; and sealing the **securable** **tamper-evident** banknote carrier 8. The first print medium 21 may be sourced from an internal printer with its own print media supply, or may be a pre-printed medium input to the banknote acceptor through a banknote input slot. The banknote carrier 8 may be housed within a lockable banknote **container** 3. The unlocking of the **container** 3 may be delayed until the carrier 8 has received the first print medium. A second print medium having the same information as the first print medium 21 can be printed and conveyed to an authorised user collecting the carrier 8. The invention provides information regarding the contents of the carrier 8 sealed within the carrier 8.

Classifications:
International (IPC 8-9): G07D11/00 G07D7/00
CPC: G07D11/125 G07D11/235 G07D11/34 G07D11/00 G07D11/12 G07D7/00



Family:

Publication number	Publication date	Application number	Application date
GB201320024 A0	20131225	GB20130020024	20131113
GB2520274 A1	20150520	GB20130020024	20131113

Priority:
GB20130020024 20131113

Probable Assignee: INNOVATIVE TECHNOLOGY LTD
Assignee(s): (std): INNOVATIVE TECHNOLOGY LTD
Inventor(s): (std): BULLOCK ANDREW
Inventor(s): ANDREW BULLOCK

Legal status (INPADOC)

View legal status timeline

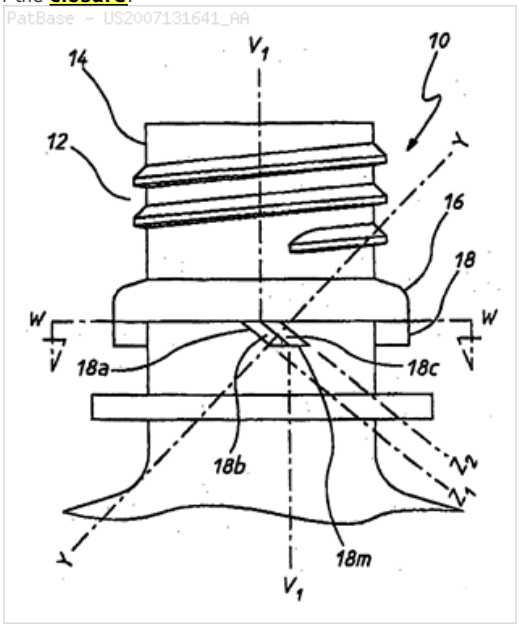
Patent	Date recorded	Event group	Code	Event	Details
GB2520274 A1	20150520	LSPB	+	published / reissued	
GB2520274 A1	20180912	LSWD	-WAP	APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)	

86) Family number: 31517864 (US2007131641 AA)

Title: CLOSURE WITH FRANGIBLE TAMPER-EVIDENT BAND

Abstract: This invention relates to closures for containers, and more particularly to tamper-evident closures for containers. One aspect of the invention provides a container and a closure for connection to said container, said closure including: an upper wall (102), a skirt (104) formed integrally with and extending downwardly from said upper wall, said skirt adapted to engage with a neck portion of the container to secure the closure to the container; a tamper-evident band (110) frangibly connected to said skirt; the neck (10) of the container including a plurality of discretely spaced projections (18) extending outwardly from said neck and adapted to engage with tabs (122) on said tamper-evident band to facilitate breaking of the band (110) from the skirt of the closure.

Classifications:
International (IPC 8-9): B65D B65D41/04 B65D41/32 B65D41/34 B65D47/04 B65D47/06 B65D47/08 B65D47/20 B65D51/00 B65D51/24 B65D51/28 B65D81/32 B65D83/00
International (IPC 1-7): B65D101/00 B65D41/34 B65D47/20 B65D51/28
CPC: B65D41/0421 B65D41/0428 B65D41/3409 B65D41/3428 B65D47/0857 B65D51/2828 B65D2401/00 B65D41/34 B65D51/2807 B65D47/06 B65D47/08 B65D51/2835 B65D41/32
US: 215/252



Family:

Publication number	Publication date	Application number	Application date
AU2003900141 A0	20030130	AU20030900141	20030114
AU2003900678 A0	20030227	AU20030900678	20030217
AU2003904044 A0	20030814	AU20030904044	20030804
AU2003904196 A0	20030821	AU20030904196	20030808
AU2003904359 A0	20030828	AU20030904359	20030815
AU2004200617 AA	20040902	AU20040200617	20040217
AU2004261315 AA	20050210	AU20040261315	20040804
AU2004261315 BB	20060504	AU20040261315	20040804
AU2004261315 CA	20060504	AU20040261315	20040804
AU2006203297 AA	20060824	AU20060203297	20060801
BRPI0412963 A	20060926	BR2004PI12963	20040804
CA2534758 AA	20060203	CA20042534758	20040804
CN1863710 A	20061115	CN200480028971	20040804
DE112004001435 T5	20060727	DE200411001435T	20040804
EP1660379 A1	20060531	EP20040737650	20040804
EP1660379 A4	20091230	EP20040737650	20040804
GB200604470 A0	20060412	GB20060004470	20040804
GB2420114 A1	20060517	GB20060004470	20040804
GB2420114 B2	20070718	GB20060004470	20040804
GB200709820 A0	20070704	GB20070009820	20040804
GB2435038 A1	20070815	GB20070009820	20040804
GB2435038 B2	20080521	GB20070009820	20040804
JP2007501169 T2	20070125	JP20060522180T	20040804
KR20060042422 A	20060512	KR20067002437	20040804
KR20070033052 A	20070323	KR20077005410	20040804
NZ544867 A	20080926	NZ20040544867	20040804
US2007131641 AA	20070614	US20040567195	20040804
WO05012125 A1	20050210	WO2004AU01035	20040804
WO05077777 A1	20050825	WO2005AU00222	20050218
ZA200601839 A	20070627	ZA20060001839	20060101

Priority:

AU20030900141 20030114 AU20030900678 20030217 AU20030904044 20030804
AU20030904196 20030808 AU20030904359 20030815 AU20030904527 20030822
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GB20060004470 20040804 GB20070009820 20040804 AU20060203297 20060801

Probable Assignee: RBC TRUSTEES CI LTD

Assignee(s): (std):	ABACUS ; ABACUS C I COMO FIDEI COMISSARIO DO FIDE LTD ; ABACUS C I LTD ; ABACUS C I LTD AS TRUSTEE FOR ; ABACUS C I LTD AS TRUSTEE OF T ; ABACUS C I LTD COMO FIDEI COMI ; ABACUS C I LTD TRUSTEE FOR AS ; ABACUS C I LTD TRUSTEE OF T AS ; CTECH CLOSURES PTY LTD ; CTECH EQUIPMENT PTY LTD ; HIGGINS CHRISTOPHER LYNDON ; RBC TRUSTEES CI LTD ; RBC TRUSTEES CI LTD AS TRUSTEE ; WOOLFORD L
Assignee(s):	ABACUS (C I) LIMITED ; ABACUS (C I) LIMITED AS TRUSTEE FOR THE ; ABACUS (C I) LIMITED COMO FIDEI COMISSARIO DO ; ABACUS (CI) LTD ; ABACUS C I LIMITED ; ABACUS C I LIMITED AS TRUSTEE FOR THE BAYVIEW TRUST ; ABACUS C I LIMITED AS TRUSTEE FOR THE BAYVIEW TRUST JERSEY ; ABACUS C I LIMITED AS TRUSTEE OF THE BAYVIEW TRUST ; ABACUS C I LIMITED COMO FIDEI COMISSARIO DO FIDEICOMISSO BAYVIEW TRUST ; ABACUS C I TRUSTEE FOR BAYVIEW T AS LTD ; ABACUS C I TRUSTEE FOR BAYVIEW TR AS LTD ; ABACUS C I TRUSTEE OF BAYVIEW TR AS LTD ; ABACUS CI LIMITED TRUSTEE FOR BAYVIEW TRUST AS ; ABACUS CI TRUSTEE FOR BAYVIEW TRUST JERSEY AS LTD ; ABACUS CI TRUSTEE OF BAYVIEW TRUST LTD AS ; ABACUS COMO FIDEI COMISSARIO DO FIDEICOMISSO BAYVI ; ABACUS LTD ; ABACUS TRUSTEE FOR BAYVIEW TRUST AS LTD ; ABACUS TRUSTEE OF BAYVIEW TRUST AS LTD ; RBC TRUSTEES (CI) LTD ; RBC TRUSTEES CI LIMITED AS TRUSTEE OF THE BAYVIEW TRUST ; RBC TRUSTEES LTD
Inventor(s): (std):	BROWN PETER WILLIAM ; HIGGINS CHRISTOPHER L ; HIGGINS CHRISTOPHER LYNDON ; LYNDON HIGGINS CHRISTOPHER
Inventor(s):	CHRISTOPHER LYNDON HIGGINS ; HIGGINS CHRISTOPHER ; PETER WILLIAM BROWN
Agent(s):	BORDEN LADNER GERVAIS LLP; BROOKS KUSHMAN PC; SHELSTON IP; SHELSTON IP PTY LTD
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2003904044 A0	20040506	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): CTECH EQUIPMENT PTY LTD Owner: CTECH CLOSURES PTY LTD PartyType: owner
AU2003904044 A0	20040916	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): CTECH CLOSURES PTY LTD Owner: ABACUS (C.I.) LIMITED PartyType: owner
AU2003904196 A0	20030918		TH	CORRIGENDA	Text: IN VOL 17, NO 33, PAGE(S) 11394 UNDER THE HEADING PROVISIONAL APPLICATIONS FILED - NAME INDEX UNDER THE NAME CTECH EQUIPMENT PTY LTD., APPLICATION NO. 2003904196, UNDER INID (71) CORRECT THE NAME TO READ CTECH EQUIPMENT PTY. LTD.
AU2003904196 A0	20040506	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): CTECH EQUIPMENT PTY LTD Owner: CTECH CLOSURES PTY LTD PartyType: owner
AU2003904196 A0	20040916	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): CTECH CLOSURES PTY LTD Owner: ABACUS (C.I.) LIMITED PartyType: owner
AU2003904359 A0	20040506	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): CTECH EQUIPMENT PTY LTD Owner: CTECH CLOSURES PTY LTD PartyType: owner
AU2003904359 A0	20040916	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): CTECH CLOSURES PTY LTD Owner: ABACUS (C.I.) LIMITED PartyType: owner
AU2004200617 AA	20040506	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): CTECH EQUIPMENT PTY LTD Owner: CTECH CLOSURES PTY LTD PartyType: owner
AU2004200617 AA	20040902	LSPB	+	published / reissued	
AU2004200617 AA	20040916	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): CTECH CLOSURES PTY LTD Owner: ABACUS (C.I.) LIMITED PartyType: owner
AU2004200617 AA	20081120	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): ABACUS (C.I.) LIMITED Owner: RBC TRUSTEES (CI) LIMITED PartyType: owner
AU2004200617 AA	20090910	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
AU2004261315 AA	20050210	LSPB	+	published / reissued	

AU2004261315 BB	20060504	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2004261315 BB	20060831	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2004261315 BB	20070322	LSRE	DA2	APPLICATIONS FOR AMENDMENT SECTION 104	Text: THE NATURE OF THE AMENDMENT IS AS SHOWN IN THE STATEMENT(S) FILED 22 FEB 2007.
AU2004261315 BB	20070802	LSRE	DA3	AMENDMENTS MADE SECTION 104	Text: THE NATURE OF THE AMENDMENT IS AS SHOWN IN THE STATEMENT(S) FILED 22 FEB 2007
AU2004261315 BB	20081120	LSAS	PC	ASSIGNMENT REGISTERED	OldParty: FORMER OWNER WAS: ABACUS (C.I.) LIMITED Owner: RBC TRUSTEES (CI) LIMITED PartyType: owner
AU2004261315 BB	20100304	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2004261315 BB	20240804	PEXP		Calculated Patent Term Expiry	
AU2006203297 AA	20060824	LSPB	+	published / reissued	
AU2006203297 AA	20081120	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	OldParty: FORMER APPLICANT(S): ABACUS (C.I.) LIMITED Owner: RBC TRUSTEES (CI) LIMITED PartyType: owner
AU2006203297 AA	20100304	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
BRPI0412963 A	20060926	LSPB	+	published / reissued	
BRPI0412963 A	20120522	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	Text: REFERENTE AS 5A, 6A E 7A ANUIDADES.
BRPI0412963 A	20121016	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	Text: REFERENTE AO DESPACHO 8.6 PUBLICADO NA RPI 2159 DE 22/05/2012.
CA2534758 AA	20060203	LSPB	+	published / reissued	
CA2534758 AA	20080904	LSES	+EEER	EXAMINATION REQUEST	
CA2534758 AA	20100804	LSLE	-FZDE	DEAD	
CN1863710 A	20061115	LSPB	+	published / reissued	
CN1863710 A	20061115	LSPB	+C06	PUBLICATION	
CN1863710 A	20070110		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN1863710 A	20100818	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
DE112004001435 T5	20060727	LSPB	+	published / reissued	
DE112004001435 T5	20100624	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	
DE112004001435 T5	20100624	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	
EP1660379 A1	20060531	LSPB	+	published / reissued	
EP1660379 A1	20060531	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20060303

EP1660379 A1	20060531		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR
EP1660379 A1	20060809		+RBV	DESIGNATED CONTRACTING STATES (CORRECTED)	Country of Ref document: AT BE BG CH CY CZ DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR
EP1660379 A1	20060921		REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref legal event code: 8566
EP1660379 A1	20061108		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP1660379 A1	20090408	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: RBC TRUSTEES (CI) LIMITED AS TRUSTEE OF THE BAYVIE PartyType: owner
EP1660379 A4	20091230	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	Effective date: 20091202
EP1660379 A4	20100908	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20100302
GB2420114 A1	20060517	LSPB	+	published / reissued	
GB2420114 B2	20070718	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2420114 B2	20090408		732E	AMENDMENTS TO THE REGISTER IN RESPECT OF CHANGES OF NAME OR CHANGES AFFECTING RIGHTS (SECT. 32/1977)	Text: REGISTERED BETWEEN 20090312 AND 20090318
GB2420114 B2	20100428	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20090804
GB2420114 B2	20240804	PEXP		Calculated Patent Term Expiry	
GB2435038 A1	20070815	LSPB	+	published / reissued	
GB2435038 B2	20080521	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2435038 B2	20090408		732E	AMENDMENTS TO THE REGISTER IN RESPECT OF CHANGES OF NAME OR CHANGES AFFECTING RIGHTS (SECT. 32/1977)	Text: REGISTERED BETWEEN 20090312 AND 20090318
GB2435038 B2	20100428	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20090804
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JP2007501169 T2	20061130	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20061129 Text: JAPANESE INTERMEDIATE CODE: A523
JP2007501169 T2	20070125	LSPB	+	published / reissued	
JP2007501169 T2	20070803	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20070802 Text: JAPANESE INTERMEDIATE CODE: A523
JP2007501169 T2	20070803	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20070802 Text: JAPANESE INTERMEDIATE CODE: A621
JP2007501169 T2	20070813	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20070802 Text: JAPANESE INTERMEDIATE CODE: A621
JP2007501169 T2	20100421	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20100420 Text: JAPANESE INTERMEDIATE CODE: A131
JP2007501169 T2	20100922	LSRV	-A02	DECISION OF REFUSAL	Effective date: 20100921 Text: JAPANESE INTERMEDIATE CODE: A02
KR20060042422 A	20060512	LSPB	+	published / reissued	

KR20060042422 A	20070307		A107	DIVISIONAL APPLICATION OF PATENT	
KR20060042422 A	20100105	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
KR20070033052 A	20070307		A107	DIVISIONAL APPLICATION OF PATENT	
KR20070033052 A	20070323	LSPB	+	published / reissued	
KR20070033052 A	20100105	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
NZ544867 A	20080926	LSPB	+	published / reissued	
NZ544867 A	20090130	LSGT	+PSEA	PATENT SEALED	
NZ544867 A	20090227	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	
US2007131641 AA	20061001	LSAS	AS	ASSIGNMENT	Effective date: 20060210 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:HIGGINS, CHRISTOPHER LYNDON;REEL/FRAME:018329/0284 Owner: ABACUS (C.I.) LIMITED, UNITED KINGDOM PartyType: owner
US2007131641 AA	20070614	LSPB	+	published / reissued	
US2007131641 AA	20081124	LSAS	AS	ASSIGNMENT	Effective date: 20070920 OldParty: MERGER;ASSIGNOR:ABACUS (C.I.) LIMITED;REEL/FRAME:021882/0815 Owner: RBC TRUSTEES (CI) LIMITED, UNITED KINGDOM PartyType: owner
US2007131641 AA	20091026	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007131641 AA	20091026		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
WO05012125 A1	20040804	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200480028971.1 Country of Ref document: CN
WO05012125 A1	20050210	LSPB	+	published / reissued	
WO05012125 A1	20050210		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
WO05012125 A1	20050210		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AM AT AZ BE BF BG BJ BY CF CG CH CI CM CY CZ DE DK EE ES FI FR GA GB GM GN GQ GR GW HU IE IT KE KG KZ LS LU MC MD ML MR MW MZ NA NE NL PL PT RO RU SD SE SI SK SL SN SZ TD TG TJ TM TR TZ UG ZM ZW
WO05012125 A1	20050406		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO05012125 A1	20050506		DPEN	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED FROM 20040101)	
WO05012125 A1	20051125	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2004261315 Country of Ref document: AU
WO05012125 A1	20051215	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 20040804 Kind code of Ref document: A Ref document number: 2004261315 Country of Ref document: AU

WO05012125 A1	20051215	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 2004261315 Country of Ref document: AU
WO05012125 A1	20060120	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 544867 Country of Ref document: NZ
WO05012125 A1	20060203	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2534758 Country of Ref document: CA
WO05012125 A1	20060203	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2006522180 Country of Ref document: JP
WO05012125 A1	20060203	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1020067002437 Country of Ref document: KR
WO05012125 A1	20060203	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: PA/a/2006/001405 Country of Ref document: MX
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WO05012125 A1	20060206	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1120040014352 Country of Ref document: DE
WO05012125 A1	20060302	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1104/DELNP/2006 Country of Ref document: IN
WO05012125 A1	20060303	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200601839 Country of Ref document: ZA
WO05012125 A1	20060303	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2004737650 Country of Ref document: EP
WO05012125 A1	20060303	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2006/01839 Country of Ref document: ZA
WO05012125 A1	20060306	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 0604470 Country of Ref document: GB
WO05012125 A1	20060306	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 0604470.5 Country of Ref document: GB
WO05012125 A1	20060512	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1020067002437 Country of Ref document: KR
WO05012125 A1	20060531	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 2004737650 Country of Ref document: EP
WO05012125 A1	20060817	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 2004261315 Country of Ref document: AU
WO05012125 A1	20060926	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: PI0412963 Country of Ref document: BR
WO05012125 A1	20061003	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 10567195 Country of Ref document: US
WO05012125 A1	20061003	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2007131641 Country of Ref document: US
WO05012125 A1	20070614	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 10567195 Country of Ref document: US
WO05077777 A1	20050825	LSPB	+	published / reissued	
WO05077777 A1	20050825		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA

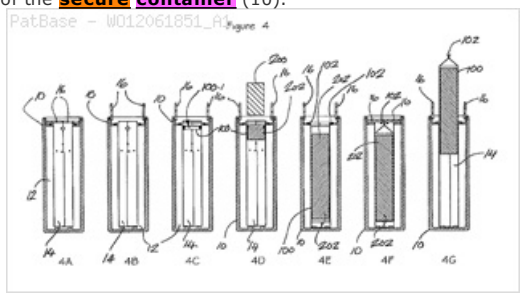
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WO05077777 A1	20050825		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AM AT AZ BE BF BG BJ BW BY CF CG CH CI CM CY CZ DE DK EE ES FI FR GA GB GH GM GN GQ GR GW HU IE IS IT KE KG KZ LS LT LU MC MD ML MR MW MZ NA NE NL PL PT RO RU SD SE SI SK SL SN SZ TD TG TJ TM TR TZ UG ZM ZW
WO05077777 A1	20051019		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO05077777 A1	20060518		DPEN	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED FROM 20040101)	
WO05077777 A1	20060720		-WPC	WITHDRAWAL OF PRIORITY CLAIMS AFTER COMPLETION OF THE TECHNICAL PREPARATIONS FOR INTERNATIONAL PUBLICATION	Ref document number: 2004900814 Text: WITHDRAWN AFTER TECHNICAL PREPARATION FINISHED Country of Ref document: AU
WO05077777 A1	20060819	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO05077777 A1	20060819	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	Text: DE
WO05077777 A1	20080312	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A1 Ref document number: 05706260 Country of Ref document: EP
WO05077777 A1	20080312	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	Ref document number: 5706260 Country of Ref document: EP
WO05077777 A1	20100304		DPE2	REQUEST FOR PRELIMINARY EXAMINATION FILED BEFORE EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED FROM 20040101)	
WO05077777 A1	20100304		-WPC	WITHDRAWAL OF PRIORITY CLAIMS AFTER COMPLETION OF THE TECHNICAL PREPARATIONS FOR INTERNATIONAL PUBLICATION	Date of Ref document: 20060529 Ref document number: 2004900814 Text: WITHDRAWN AFTER TECHNICAL PREPARATION FINISHED Country of Ref document: AU
ZA200601839 A	20070627	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200601839 A	20251231	PEXP		Calculated Patent Term Expiry	

87) Family number: 51083637 (WO12061851 A1)

Title: CASH IN TRANSIT SYSTEM **TAMPER EVIDENT** BAG

Abstract: A cash in transit system including a **secure** **container** (10) with a cash hold (12) adapted to receive a stack of banknotes within a **tamper evident** bag (100). Electronically lockable doors (16) on the **secure** **container** (10) only **open** when the **container** is docked within a cash acceptance terminal. The **tamper evident** bag (100) includes **tamper evident** means (108, 110) moulded into a sealing collar (102) that extends about the upper periphery or mouth (104) of the bag (100), from which the body (106) of the bag (100) depends. When the bag (100) is fully closed, **opening** of the bag (100) is only possible through destruction of the **tamper evident** means (108, 110). The process of closing the bag (100) is automated and performed by the automatic door closing mechanism of the **secure** **container** (10).

Classifications:
International (IPC 8-9): E05G E05G1/00 G07D G07D11/00
CPC: E05G1/005 E05G1/04 E05G2700/00



Family:

Publication number	Publication date	Application number	Application date
WO12061851 A1	20120510	WO2011ZA00081	20111103
ZA201303973 A	20140129	ZA20130003973	20130531

Priority:

ZA20100007927 20101105

Probable Assignee: DYSON RODERICK MARK

Assignee(s): (std): DYSON RODERICK MARK

Inventor(s): (std): DYSON RODERICK MARK

Agent(s): BURGER PIETER FRANCOIS THERON

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
WO12061851 A1	20120510	LSPB	+	published / reissued	
WO12061851 A1	20120627		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 11838974 Country of Ref document: EP
WO12061851 A1	20130506	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO12061851 A1	20131127	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A1 Ref document number: 11838974 Country of Ref document: EP
WO12061851 A1	20140507	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A1 Ref document number: 11838974 Country of Ref document: EP
ZA201303973 A	20140129	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA201303973 A	20330530	PEXP		Calculated Patent Term Expiry	

88) Family number: 8776227 (US5609262 A)

Title: **Tamper evident**, child-resistant **closure**

Abstract: A child-resistant, **tamper-evident** **closure** for sealing an **open** -topped **container** having an external thread formed on a neck finish includes a combination of inner and outer caps where the inner cap includes a **tamper-evident** band which is connected to the remainder of the inner cap by a series of frangible elements. The inner cap further includes a series of folded ratchet-like tabs which are in a **locked** position behind an annular bead. The tabs are arranged so as to engage an annular lip on the neck finish. The outer cap snaps over the inner cap and includes a series of ratchet teeth which are directed toward the inner cap. The top surface of the inner cap includes a series of depressions which are sized and arranged for engagement with the series of ratchet teeth. The child-resistant arrangement permits the outer cap to turn relative to the inner cap in a counterclockwise direction. In the clockwise direction, the ratchet teeth and depressions are in engagement such that turning of the outer cap will advance the inner cap into threaded engagement. Removal of the inner cap from the neck finish is achieved by ovalizing the outer cap so as to bring into engagement ribs on the inner cap with ribs on the inside surface of the sidewall of the outer cap. By means of rib engagement and frictional interference, the outer cap is used to remove the inner cap.

Classifications:
International (IPC 8-9): B29C13/02 B29C37/00 B29C45/44 B65D41/32 B65D41/34 B65D50/00 B65D50/04
International (IPC 1-7): B29C13/02 B65D41/32 B65D41/34 B65D50/00 B65D50/04 B65D55/02 B65D55/06 B65D55/08 B67B3/00
CPC: B29C37/0014 B29C45/4407 B29L2031/565 B65D41/3428 B65D50/041
US: 215/219 215/252

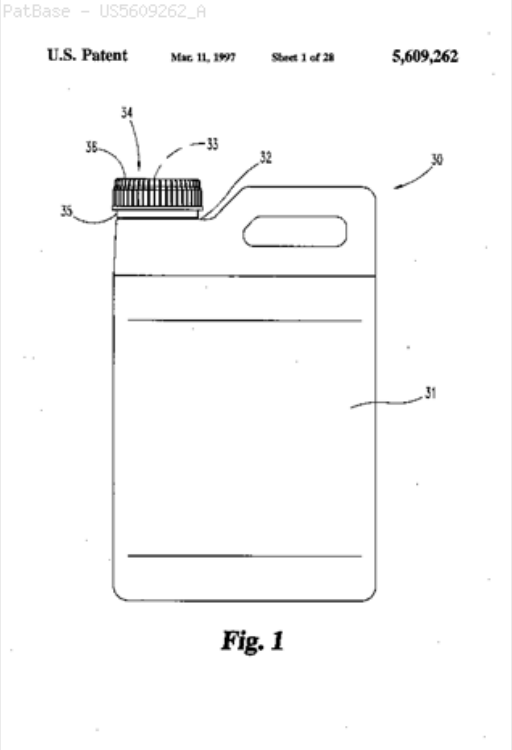


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
AU199665711 A1	19970327	AU19960065711	19960918
BRPI9603842 A	19980602	BR1996PI03842	19960920
CA2185976 AA	19970323	CA19962185976	19960919
CL1996001644 A1	19970609	CL19960001644	19960917
CO4560348 A1	19980210	CO19960050315	19960920
EP0764591 A1	19970326	EP19960306773	19960918
MX9604215 A1	19980430	MX19960004215	19960920
NO963955 A	19970324	NO19960003955	19960920
NO963955 A0	19960920	NO19960003955	19960920
NO963955 L	19970324	NO19960003955	19960920
SG43410 A1	19971017	SG19960010685	19960923
US5609262 A	19970311	US19950532157	19950922
US5749484 A	19980512	US19960733223	19961017

Priority:
US19950532157 19950922 CA19962185976 19960919 US19960733223 19961017

Probable Assignee: RIEKE CORP

Assignee(s): (std): RIEKE CORP

Assignee(s): ARROW ENGINE CO ; BANK OF NEW YORK MELLON TRUST CO NA SECOND LIEN AG ; BANK OF NEW YORK MELLON TRUST CO NA SECOND LIEN AGENT AS ; BEAUMONT BOLT AND GASKET INC ; CEQUENT CONSUMER PRODUCTS INC ; CEQUENT PERFORMANCE PRODUCTS INC ; CEQUENT TOWING PRODUCTS INC ; COMPAC CORP ; CONSUMER PRODUCTS INC ; CUYAM CORP ; DEW TECHNOLOGIES INC ; DI RITE CO ; DRAW TITE INC ; ENTEGRA FASTENER CORP ; FULTON PERFORMANCE PRODUCTS INC ; HAMMERBLOW ACQUISITION CORP ; HAMMERBLOW CO LLC ; HI VOL PRODUCTS LLC ; INDUSTRIAL BOLT AND GASKET INC ; JPMORGAN CHASE BANK NA ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; KEO CUTTERS INC ; LAKE ERIE PRODUCTS CORP ; LAMONS GASKET CO ; LAMONS METAL GASKET CO ; LOUISIANA HOSE AND RUBBER CO ; MONOGRAM AEROSPACE FASTENERS INC ; NETCONG INVESTMENTS INC ; NI IND INC ; NI WEST INC ; NORRIS CYLINDER CO ; NORRIS ENVIRONMENTAL SERVICES INC ; NORRIS IND INC ; PLASTIC FORM INC ; REESE PRODUCTS INC ; RESKA SPLINE PRODUCTS INC ; RICHARDS MICRO TOOL INC ; RIEKE LEASING CO INC ; RIEKE OF INDIANA INC ; RIEKE OF MEXICO INC ; RIEKE UNA SOC ORGANIZADA BAJO LAS LEYES DEL ESTADO DE INDIANA CORP ; TOWING HOLDING LLC ; TRIMAS CO LLC ; TRIMAS CORP ; TRIMAS INT HOLDINGS LLC ; TROUT STANLEY D ; WESBAR CORP

Inventor(s): (std): TROUT STANLEY D

Inventor(s): STANLEY D TROUT

Agent(s): ASPEN PHARMA PTY LTD; ERNESTO CAVELIER; SMART AND BIGGAR; SPRUSON AND FERGUSON; VILLASECA

Designated states: BE CH DE ES FR GB IT LI

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU199665711 A1	19970327	LSPB	+	published / reissued	
BRPI9603842 A	19980602	LSPB	+	published / reissued	
BRPI9603842 A	20010918	LSRV	-FA10	DISMISSAL: DISMISSAL - ARTICLE 33 OF INDUSTRIAL PROPERTY LAW	
CA2185976 AA	19970323	LSPB	+	published / reissued	
CA2185976 AA	20060326	LSLE	-FZDE	DEAD	Effective date: 19990920
CL1996001644 A1	19970609	LSPB	+	published / reissued	
CO4560348 A1	19980210	LSPB	+	published / reissued	
EP0764591 A1	19970326	LSPB	+	published / reissued	
EP0764591 A1	19970326		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: BE CH DE ES FR GB IT LI
EP0764591 A1	19980819	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 19970929
MX9604215 A1	19980430	LSPB	+	published / reissued	
NO963955 A	19970324	LSPB	+	published / reissued	
SG43410 A1	19971017	LSPB	+	published / reissued	
US5609262 A	19950922	LSAS	AS	ASSIGNMENT	Effective date: 19950921 PartyType: owner OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:TROUT, STANLEY D.;REEL/FRAME:007693/0615 Owner: RIEKE CORPORATION, INDIANA
US5609262 A	19970106	LSGT	PAT1	Patented Case	
US5609262 A	19970106	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US5609262 A	19970311	LSGT	+	granted / extensions (spc, cpc, pte)	
US5609262 A	19970715	LSRE	CC	CERTIFICATE OF CORRECTION	
US5609262 A	20000831	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5609262 A	20040913	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5609262 A	20080514	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 12
US5609262 A	20100323	LSAS	AS	ASSIGNMENT	Effective date: 20100318 OldParty: SECURITY AGREEMENT;ASSIGNORS:TRIMAS CORPORATION;TRIMAS COMPANY LLC;ARROW ENGINE COMPANY;AND OTHERS;REEL/FRAME:024120/0535 Owner: THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., A PartyType: owner
US5609262 A	20100504	LSAS	AS	ASSIGNMENT	Effective date: 20020606 PartyType: owner OldParty: SECURITY AGREEMENT;ASSIGNORS:TRIMAS COMPANY LLC;TRIMAS CORPORATION;ARROW ENGINE COMPANY;AND OTHERS;REEL/FRAME:024390/0471 Owner: JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT,NEW
US5609262 A	20100504	LSAS	AS	ASSIGNMENT	Effective date: 20020606

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US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621 Owner: TRIMAS CORPORATION, MICHIGAN
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621 Owner: ARROW ENGINE COMPANY, OKLAHOMA PartyType: owner
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621 PartyType: owner Owner: BEAUMONT BOLT & GASKET, INC., TEXAS
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621 Owner: CEQUENT CONSUMER PRODUCTS, INC., OHIO
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 Owner: CEQUENT PERFORMANCE PRODUCTS, INC., MICHIGAN PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Owner: CEQUENT TOWING PRODUCTS, INC., MICHIGAN PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner Owner: COMPAC CORPORATION, NEW JERSEY Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 PartyType: owner Effective date: 20110621 Owner: CONSUMER PRODUCTS, INC., WISCONSIN
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: CUYAM CORPORATION, OHIO PartyType: owner Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: DEW TECHNOLOGIES, INC., MICHIGAN PartyType: owner Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: DI-RITE COMPANY, OHIO PartyType: owner Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621

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US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621 Owner: FULTON PERFORMANCE PRODUCTS, INC., WISCONSIN PartyType: owner
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 Owner: HAMMERBLOW ACQUISITION CORP., WISCONSIN OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 PartyType: owner
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: THE HAMMERBLOW COMPANY, LLC, WISCONSIN Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Owner: HI-VOL PRODUCTS LLC, MICHIGAN PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: INDUSTRIAL BOLT & GASKET, INC., LOUISIANA
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: KEO CUTTERS, INC., MICHIGAN PartyType: owner
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: LAKE ERIE PRODUCTS CORPORATION, MICHIGAN PartyType: owner Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: LAMONS GASKET COMPANY, TEXAS PartyType: owner Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: LAMONS METAL GASKET CO., TEXAS Effective date: 20110621 PartyType: owner
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621 Owner: LOUISIANA HOSE & RUBBER CO., LOUISIANA PartyType: owner
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: MONOGRAM AEROSPACE FASTENERS, INC., CALIFORNIA PartyType: owner
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED

					PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: NETCONG INVESTMENTS, INC., NEW JERSEY Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: NI INDUSTRIES, INC., ILLINOIS Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 PartyType: owner Owner: NI WEST, INC., MICHIGAN
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 PartyType: owner Effective date: 20110621 Owner: NORRIS CYLINDER COMPANY, TEXAS
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Owner: NORRIS ENVIRONMENTAL SERVICES, INC., MICHIGAN PartyType: owner Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621 Owner: NORRIS INDUSTRIES, INC., CALIFORNIA
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Owner: PLASTIC FORM, INC., INDIANA PartyType: owner Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 20110621 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: REESE PRODUCTS, INC., INDIANA
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: RESKA SPLINE PRODUCTS, INC., MICHIGAN PartyType: owner Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 20110621 Owner: RIEKE CORPORATION, INDIANA OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 PartyType: owner Effective date: 20110621 Owner: RIEKE OF INDIANA, INC., INDIANA
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 PartyType: owner Effective date: 20110621 Owner: RIEKE LEASING CO., INCORPORATED, INDIANA
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434

					Owner: RIEKE OF MEXICO, INC., INDIANA PartyType: owner Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621 Owner: TOWING HOLDING LLC, MICHIGAN PartyType: owner
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: TRIMAS COMPANY LLC, MICHIGAN Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Owner: TRIMAS INTERNATIONAL HOLDINGS LLC, MICHIGAN Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Effective date: 20110621 Owner: WESBAR CORPORATION, WISCONSIN OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 PartyType: owner
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	Owner: DRAW-TITE, INC., MICHIGAN OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 PartyType: owner Effective date: 20110621
US5609262 A	20110805	LSAS	AS	ASSIGNMENT	PartyType: owner Owner: RICHARDS MICRO-TOOL, INC., MASSACHUSETTS OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT;REEL/FRAME:026706/0434 Effective date: 20110621
US5609262 A	20110807	LSAS	AS	ASSIGNMENT	PartyType: owner Owner: JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, NE OldParty: SECURITY AGREEMENT;ASSIGNORS:ARROW ENGINE COMPANY, AN OKLAHOMA CORPORATION;CEQUENT CONSUMER PRODUCTS, INC., AN OHIO CORPORATION;CEQUENT PERFORMANCE PRODUCTS, INC., A MICHIGAN CORPORATION;AND OTHERS;REEL/FRAME:026712/0001 Effective date: 20110621
US5609262 A	20121113	LSAS	AS	ASSIGNMENT	Effective date: 20121107 OldParty: RELEASE OF SECURITY INTEREST;ASSIGNOR:THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A.;REEL/FRAME:029291/0265 Owner: TRIMAS CORPORATION, MICHIGAN PartyType: owner
US5609262 A	20131115	LSAS	AS	ASSIGNMENT	Owner: CEQUENT PERFORMANCE PRODUCTS, INC., MICHIGAN Effective date: 20131016 PartyType: owner OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591
US5609262 A	20131115	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591 Owner: MONOGRAM AEROSPACE FASTENERS, INC., CALIFORNIA Effective date: 20131016
US5609262 A	20131115	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 20131016 Owner: ARROW ENGINE COMPANY, OKLAHOMA OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591

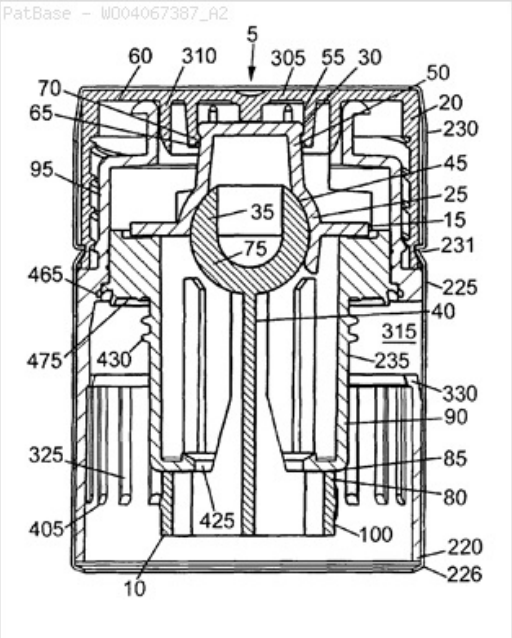
US5609262 A	20131115	LSAS	AS	ASSIGNMENT	OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591 Effective date: 20131016 Owner: RIEKE CORPORATION, INDIANA PartyType: owner
US5609262 A	20131115	LSAS	AS	ASSIGNMENT	Effective date: 20131016 Owner: CEQUENT CONSUMER PRODUCTS, INC., OHIO PartyType: owner OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591
US5609262 A	20131115	LSAS	AS	ASSIGNMENT	PartyType: owner OldParty: RELEASE OF REEL/FRAME 026712/0001;ASSIGNOR:JPMORGAN CHASE BANK, N.A.;REEL/FRAME:031645/0591 Effective date: 20131016 Owner: LAMONS GASKET COMPANY, TEXAS
US5609262 A	20150702	LSAS	AS	ASSIGNMENT	PartyType: owner Effective date: 20150630 OldParty: SECURITY INTEREST;ASSIGNORS:TRIMAS CORPORATION;TRIMAS COMPANY LLC;ARMINAK & ASSOCIATES, LLC;AND OTHERS;REEL/FRAME:036051/0483 Owner: JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT, IL
US5609262 A	20150716	LSAS	AS	ASSIGNMENT	Effective date: 20150630 Owner: CEQUENT CONSUMER PRODUCTS, INC., OHIO OldParty: RELEASE OF SECURITY INTEREST IN PATENTS PREVIOUSLY RECORDED AT REEL/FRAME (024120/0535);ASSIGNOR:THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., AS SECOND LIEN AGENT;REEL/FRAME:036125/0710 PartyType: owner
US5609262 A	20150922	PEXP		Calculated Patent Term Expiry	
US5749484 A	19961017	LSAS	AS	ASSIGNMENT	Effective date: 19961011 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:TROUT, STANLEY D.;REEL/FRAME:008279/0567 Owner: RIEKE CORPORATION, INDIANA PartyType: owner
US5749484 A	19980512	LSGT	+	granted / extensions (spc, cpc, pte)	
US5749484 A	20011108	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US5749484 A	20011204		REMI	MAINTENANCE FEE REMINDER MAILED	
US5749484 A	20051114	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US5749484 A	20091214		REMI	MAINTENANCE FEE REMINDER MAILED	
US5749484 A	20100512	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5749484 A	20100607	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5749484 A	20100607	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5749484 A	20100629	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20100512
US5749484 A	20161017	PEXP		Calculated Patent Term Expiry	

89) Family number: 28343964 (WO04067387 A2)

Title: LIQUID **CONTAINER** **CLOSURE** ASSEMBLY

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

Classifications:
International (IPC 8-9): B65D41/00 B65D41/62 B65D49/00 B65D49/02 B65D49/04 B65D49/06 B65D49/10 B65D55/02 B65D55/08
International (IPC 1-7): B65D0/00 B65D49/00 B65D49/02 B65D49/04 B65D49/10
CPC: B65D49/04 B65D55/026 B65D55/0845



Family:

Publication number	Publication date	Application number	Application date
AT370894 E	20070915	AT20040704267T	20040122
BRPI0406972 A	20060110	BR2004PI06972	20040122
BRPI0406972 B1	20161220	BR2004PI06972	20040122
CN100355632 C	20071219	CN200480002509	20040122
CN1741942 A	20060301	CN200480002509	20040122
DE602004008423 D1	20071004	DE200460008423T	20040122
DE602004008423 T2	20080515	DE200460008423T	20040122
EA007834 B1	20070227	EA20050001177	20040122
EA200501177 A1	20060224	EA20050001177	20040122
EP1585684 A2	20051019	EP20040704267	20040122
EP1585684 B1	20070822	EP20040704267	20040122
ES2294459 T3	20080401	ES20040704267T	20040122
GB200301818 A0	20030226	GB20030001818	20030125
GB200401356 A0	20040225	GB20040001356	20040122
GB2399339 A1	20040915	GB20040001356	20040122
KR101070559 B1	20111005	KR20057013620	20040122
KR20050085984 A	20050829	KR20057013620	20040122
MXPA05007720 A1	20050930	MX2005PA07720	20040122
UA80858 C2	20071112	UA20050008270	20040122
WO04067387 A2	20040812	WO2004GB00189	20040122
WO04067387 A3	20041118	WO2004GB00189	20040122

Priority:
GB20030001818 20030125 WO2004GB00189 20040122

Probable Assignee: GUALA CLOSURES INT BV

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

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AT370894 E	20070915	LSGT	+	granted / extensions (spc, cpc, pte)	
AT370894 E	20080215	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT370894 E	20240122	PEXP		Calculated Patent Term Expiry	
BRPI0406972 A	20060110	LSPB	+	published / reissued	
BRPI0406972 A	20081111	LSAS	B25D	REQUESTED CHANGE OF NAME OF APPLICANT APPROVED	OldParty: ALTERADO DE: DANIEL MONTGOMERY AND SON LIMITED PartyType: owner Owner: GUALA CLOSURES U.K. LIMITED (GB)
BRPI0406972 A	20090908	LSAS	B25A	REQUESTED TRANSFER OF RIGHTS APPROVED	Owner: GUALA CLOSURES PATENTS B.V. (NL) PartyType: owner OldParty: TRANSFERIDO DE: GUALA CLOSURES U.K. LIMITED
BRPI0406972 A	20141230		B06A	NOTIFICATION TO APPLICANT TO REPLY TO THE REPORT FOR NON-PATENTABILITY OR INADEQUACY OF THE APPLICATION ACCORDING ART. 36 INDUSTRIAL PATENT LAW	
BRPI0406972 A	20160517	LSAS	B25G	REQUESTED CHANGE OF HEADQUARTER APPROVED	Owner: GUALA CLOSURES PATENTS B.V. (NL) PartyType: owner
BRPI0406972 A	20160531	LSAS	B25G	REQUESTED CHANGE OF HEADQUARTER APPROVED	PartyType: owner Owner: GUALA CLOSURES PATENTS B.V. (NL)
BRPI0406972 A	20160614	LSAS	B25G	REQUESTED CHANGE OF HEADQUARTER APPROVED	Owner: GUALA CLOSURES PATENTS B.V. (NL) PartyType: owner
BRPI0406972 A	20160628	LSAS	B25A	REQUESTED TRANSFER OF RIGHTS APPROVED	Owner: GUALA CLOSURES INTERNATIONAL B.V. (NL) PartyType: owner
BRPI0406972 A	20161004	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI0406972 A	20161220	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	Text: PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 20/12/2016, OBSERVADAS AS CONDICOES LEGAIS.
BRPI0406972 B1	20240122	PEXP		Calculated Patent Term Expiry	
CN100355632 C	20071219	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100355632 C	20071219	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100355632 C	20080220	LSLI	LIC	PATENT LICENCE CONTRACT FOR EXPLOITATION SUBMITTED FOR RECORD	Licensee: BEIJING GUALA CAPS CO., LTD. Effective date: 20071229 PartyType: licensee OldParty: EXCLUSIVE LICENCE; TIME LIMIT OF IMPLEMENTING CONTACT: 2007.10.11 TO 2015.11.8
CN100355632 C	20151028	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN100355632 C	20160504	LSLI	LICC	ENFORCEMENT, CHANGE AND CANCELLATION OF RECORD OF CONTRACTS ON THE LICENCE FOR EXPLOITATION OF A PATENT OR UTILITY MODEL	
CN100355632 C	20160511	LSLI	LICC	ENFORCEMENT, CHANGE AND CANCELLATION OF RECORD OF CONTRACTS ON THE LICENCE FOR EXPLOITATION OF A	

				PATENT OR UTILITY MODEL	
CN100355632 C	20240122	PEXP		Calculated Patent Term Expiry	
CN1741942 A	20060301	LSPB	+	published / reissued	
CN1741942 A	20060301	LSPB	+C06	PUBLICATION	
CN1741942 A	20060426		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN1741942 A	20070725	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PartyType: owner Effective date: 20070622 OldParty: FORMER OWNER: GUALA CLOSURES BRITISH CO., LTD. Owner: GUALA CAPS PATENT CO., LTD.
CN1741942 A	20070725	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
DE602004008423 D1	20080424		8381	INVENTOR (NEW SITUATION)	PartyType: inventor Inventor: THOMSON, DAVID W., GLASGOW G66 1ST, GB
DE602004008423 D1	20080424		8381	INVENTOR (NEW SITUATION)	Inventor: JOHNSON, STUART, GLASGOW, G66 1ST, GB PartyType: inventor
DE602004008423 D1	20150903	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PartyType: Owner OldParty: Guala Closures Patents B.V., Amsterdam, NL Owner: Guala Closures International B.V., Amsterdam, NL
DE602004008423 T2	20080515	LSGT	+	granted / extensions (spc, cpc, pte)	
DE602004008423 T2	20080911	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE602004008423 T2	20240122	PEXP		Calculated Patent Term Expiry	
EA007834 B1	20070227	LSGT	+	granted / extensions (spc, cpc, pte)	
EA007834 B1	20070629	LSRE	PC4A	REGISTRATION OF TRANSFER OF A EURASIAN PATENT BY ASSIGNMENT	
EA007834 B1	20151030	LSLE	-MM4A	LAPSE OF A EURASIAN PATENT DUE TO NON-PAYMENT OF RENEWAL FEES WITHIN THE TIME LIMIT IN THE FOLLOWING DESIGNATED STATE(S)	Country of Ref document: AM KG MD TJ TM
EA007834 B1	20160129	LSRE	PD4A	REGISTRATION OF TRANSFER OF A EURASIAN PATENT IN ACCORDANCE WITH THE SUCCESSION IN TITLE	
EA007834 B1	20240122	PEXP		Calculated Patent Term Expiry	
EA200501177 A1	20060224	LSPB	+	published / reissued	
EP1585684 A2	20051019	LSPB	+	published / reissued	
EP1585684 A2	20051019	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20050711
EP1585684 A2	20051019		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR
EP1585684 A2	20051019		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL LT LV MK
EP1585684 A2	20051214	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PartyType: owner Owner: GUALA CLOSURES U.K. LIMITED
EP1585684 A2	20060517		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP1585684 A2	20060906		RIC1	INFORMATION PROVIDED ON IPC	ClassificationSymbol: B65D 49/04

				CODE ASSIGNED BEFORE GRANT	20060101AFI20050804BHEP ClassificationScheme: IPC
EP1585684 A2	20060906		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationSymbol: B65D 49/10 20060101ALI20060803BHEP ClassificationScheme: IPC
EP1585684 A2	20060906		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 55/02 20060101ALI20060803BHEP
EP1585684 A2	20060906		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationScheme: IPC ClassificationSymbol: B65D 41/62 20060101ALI20060803BHEP
EP1585684 A2	20060906		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationSymbol: B65D 55/08 20060101ALI20060803BHEP ClassificationScheme: IPC
EP1585684 A2	20060906		RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	ClassificationSymbol: B65D 49/06 20060101ALI20060803BHEP ClassificationScheme: IPC
EP1585684 A2	20060920	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20060309
EP1585684 A2	20070103	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20060309
EP1585684 A2	20070228	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: GUALA CLOSURES PATENTS B.V. PartyType: owner
EP1585684 A2	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20160120 Country of Ref document: DE
EP1585684 A2	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20160113 Country of Ref document: BG
EP1585684 A2	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160125 Year of fee payment: 13 Country of Ref document: IT
EP1585684 A2	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160112 Year of fee payment: 13 Country of Ref document: ES
EP1585684 A2	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160113 Year of fee payment: 13 Country of Ref document: TR
EP1585684 A2	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Payment date: 20160119 Country of Ref document: RO
EP1585684 A2	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160120 Year of fee payment: 13 Country of Ref document: GB
EP1585684 A2	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 14 Payment date: 20170119 Country of Ref document: GB
EP1585684 B1	20070822	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1585684 B1	20070822		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR
EP1585684 B1	20070822	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Ref country code: GB
EP1585684 B1	20070914	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: EP Ref country code: CH
EP1585684 B1	20070919	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Ref country code: IE
EP1585684 B1	20071004		REF	CORRESPONDS TO:	Date of Ref document: 20071004 Ref document number:

					602004008423 Kind code of Ref document: P Country of Ref document: DE
EP1585684 B1	20071116	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: RO Ref legal event code: EPE
EP1585684 B1	20080131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP1585684 B1	20080131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP1585684 B1	20080201	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	Ref country code: EP
EP1585684 B1	20080229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: AT
EP1585684 B1	20080229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CH
EP1585684 B1	20080229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LI
EP1585684 B1	20080229	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: PL Ref country code: CH
EP1585684 B1	20080331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BE
EP1585684 B1	20080401	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG2A Kind code of Ref document: T3 Ref document number: 2294459 Ref country code: ES Country of Ref document: ES
EP1585684 B1	20080418		-EN	FR: TRANSLATION NOT FILED	
EP1585684 B1	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP1585684 B1	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20071123 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP1585684 B1	20080530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF

				INFORMATION FROM NATIONAL OFFICE TO EPO]	THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP1585684 B1	20080530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080122 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP1585684 B1	20080530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP1585684 B1	20080630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20071122 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP1585684 B1	20080730	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20080526
EP1585684 B1	20080829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20080131 Country of Ref document: MC
EP1585684 B1	20090130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP1585684 B1	20090130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080122 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP1585684 B1	20090401		REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: 732E Text: REGISTERED BETWEEN 20090305 AND 20090311
EP1585684 B1	20090630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20070822 Country of Ref document: SI
EP1585684 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20070822 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP1585684 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080223 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HU
EP1585684 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20080122 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1585684 B1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

				EPO]	Lapsed date: 20080418 Country of Ref document: FR
EP1585684 B1	20130206		REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: 732E Text: REGISTERED BETWEEN 20130110 AND 20130116
EP1585684 B1	20150903		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602004008423 Ref legal event code: R082 Representative: MITSCHERLICH, PATENT- UND RECHTSANWAELTE PARTM, DE Country of Ref document: DE
EP1585684 B1	20150903	LSAS	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Owner: GUALA CLOSURES INTERNATIONAL B.V., NL Ref legal event code: R081 OldParty: FORMER OWNER: GUALA CLOSURES PATENTS B.V., AMSTERDAM, NL PartyType: owner Ref document number: 602004008423 Country of Ref document: DE
EP1585684 B1	20150916		REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: 732E Text: REGISTERED BETWEEN 20150820 AND 20150826 Ref country code: GB
EP1585684 B1	20151001	LSAS	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20150925 Ref legal event code: PC2A PartyType: owner Owner: GUALA CLOSURES INTERNATIONAL B.V. Ref country code: ES
EP1585684 B1	20170426		REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Text: REGISTERED BETWEEN 20170331 AND 20170405 Ref legal event code: 732E
EP1585684 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170120 Year of fee payment: 14 Country of Ref document: DE
EP1585684 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170118 Year of fee payment: 14 Country of Ref document: RO
EP1585684 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 14 Payment date: 20170123 Country of Ref document: BG
EP1585684 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 14 Payment date: 20170113 Country of Ref document: ES
EP1585684 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 14 Payment date: 20170124 Country of Ref document: IT
EP1585684 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 14 Payment date: 20170111 Country of Ref document: TR
EP1585684 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 15 Payment date: 20171222 Country of Ref document: GB
EP1585684 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180101 Year of fee payment: 15 Country of Ref document: DE
EP1585684 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 15 Payment date: 20171228 Country of Ref document: RO
EP1585684 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180122 Year of fee payment: 15 Country of Ref document: IT

EP1585684 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 15 Payment date: 20180102 Country of Ref document: TR
EP1585684 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 15 Payment date: 20180103 Country of Ref document: BG
EP1585684 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180402 Year of fee payment: 15 Country of Ref document: ES
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EP1585684 B1	20190731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190403 Year of fee payment: 16 Country of Ref document: ES
EP1585684 B1	20200131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 17 Payment date: 20191230 Country of Ref document: RO
EP1585684 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 17 Payment date: 20191227 Country of Ref document: GB
EP1585684 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 17 Payment date: 20200127 Country of Ref document: IT
EP1585684 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 17 Payment date: 20200106 Country of Ref document: DE
EP1585684 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 17 Payment date: 20200103 Country of Ref document: BG
EP1585684 B1	20200630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200103 Year of fee payment: 17 Country of Ref document: TR
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EP1585684 B1	20240122	PEXP		Calculated Patent Term Expiry	
ES2294459 T3	20080401	LSGT	+	granted / extensions (spc, cpc, pte)	

ES2294459 T3	20240122	PEXP		Calculated Patent Term Expiry	
GB200301818 A0	20040519	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
GB2399339 A1	20040915	LSPB	+	published / reissued	
GB2399339 A1	20080130	LSWD	-WAP	APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)	
KR101070559 B1	20111005	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101070559 B1	20140918	LSFE	FPAY	ANNUAL FEE PAYMENT	Payment date: 20140919 Year of fee payment: 4
KR101070559 B1	20150918	LSFE	FPAY	ANNUAL FEE PAYMENT	Payment date: 20150918 Year of fee payment: 5
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KR101070559 B1	20180904	LSFE	FPAY	ANNUAL FEE PAYMENT	Year of fee payment: 8 Payment date: 20180904
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KR101070559 B1	20240122	PEXP		Calculated Patent Term Expiry	
KR20050085984 A	20050829	LSPB	+	published / reissued	
KR20050085984 A	20080213	LSAS	N231	NOTIFICATION OF CHANGE OF APPLICANT	
KR20050085984 A	20081110	LSES	A201	REQUEST FOR EXAMINATION	
KR20050085984 A	20101104	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20050085984 A	20110718	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20050085984 A	20110928	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
MXPA05007720 A1	20050930	LSPB	+	published / reissued	
MXPA05007720 A1	20070913	LSAS	GB	TRANSFER OR RIGHTS	
MXPA05007720 A1	20071218	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05007720 A1	20080919	LSLI	GD	LICENCE GRANTED	
UA80858 C2	20071112	LSGT	+	granted / extensions (spc, cpc, pte)	
UA80858 C2	20240122	PEXP		Calculated Patent Term Expiry	
WO04067387 A2	20040812	LSPB	+	published / reissued	
WO04067387 A2	20040812		+AK	DESIGNATED STATES	Kind code of Ref document: A2 Country of Ref document: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
WO04067387 A2	20040812		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A2 Country of Ref document: AM AT AZ BE BF BG BJ BW BY CF CG CH CI CM CY CZ DE DK EE ES FI FR GA GB GH GM GN GQ GR GW HU IE IT KE KG KZ LS LU MC MD ML MR MW MZ NE NL PT RO RU SD SE SI SK SL SN SZ TD TG TJ TM TR TZ UG ZM ZW
WO04067387 A2	20041006		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO04067387 A2	20041104		DPEN	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED FROM 20040101)	

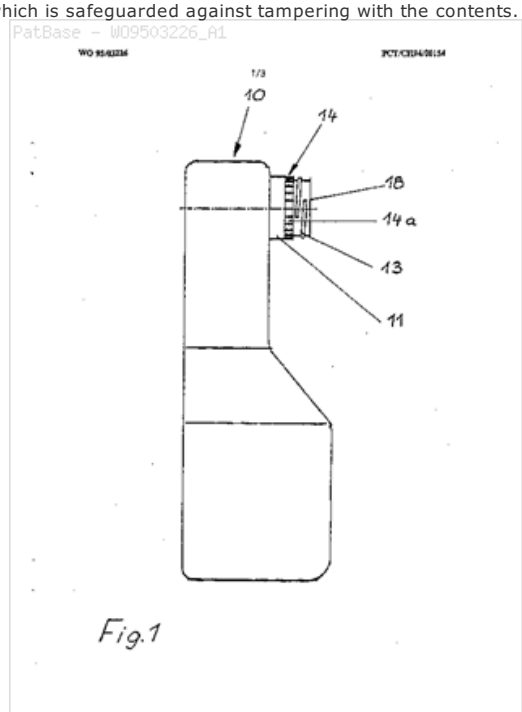
WO04067387 A3	20050507	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1-2005-501257 Country of Ref document: PH
WO04067387 A3	20050711	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2004704267 Country of Ref document: EP
WO04067387 A3	20050720	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 20048025094 Country of Ref document: CN
WO04067387 A3	20050720	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: PA/a/2005/007720 Country of Ref document: MX
WO04067387 A3	20050722	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 1020057013620 Country of Ref document: KR
WO04067387 A3	20050824	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 05084334 Country of Ref document: CO
WO04067387 A3	20050824	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200501177 Country of Ref document: EA
WO04067387 A3	20050829	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 1020057013620 Country of Ref document: KR
WO04067387 A3	20051019	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 2004704267 Country of Ref document: EP
WO04067387 A3	20060110	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: PI0406972 Country of Ref document: BR
WO04067387 A3	20070822	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 2004704267 Country of Ref document: EP

90) Family number: 10566001 (WO9503226 A1)

Title: PACKAGING **CONTAINER**

Abstract: The invention relates to a **container** (10) with a **closure** (12) fitted on the neck (11) of the **container** by a left-hand thread (13) and a **locking device** (14). The **closure** (12) may also have an extension (19) which is **secured** to the **closure** (12) by webs (22). The material of the **container** (10) is softer than that of the **closure** (12). In the event of an attempt to **open** the **container** by exerting force on the extension (19), the webs (22) break and the **closure** (12) with the extension (19) are destroyed. If the force is exerted on the **closure** (12), the neck (11) is torn off the **container** (10), which is thus destroyed. The invention provides a simple **container** (10) which is safeguarded against tampering with the contents.

Classifications:
International (IPC 8-9): B65D41/34 B65D47/06
International (IPC 1-7): B65D41/34 B65D47/06
CPC: B65D2255/20 B65D41/34 B65D41/3404 B65D47/06



Family:

Publication number	Publication date	Application number	Application date
AT177393 E	19990315	AT19940920863T	19940725
DE59407924 D1	19990415	DE19945007924T	19940725
EP0669892 A1	19950906	EP19940920863	19940725
EP0669892 B1	19990310	EP19940920863	19940725
WO9503226 A1	19950202	WO1994CH00154	19940725

Priority:
CH19930002241 19930723 WO1994CH00154 19940725

Probable Assignee: TRADEFORCE ESTABLISHMENT
Assignee(s): (std): TRADEFORCE ESTABLISHMENT
Assignee(s): TRADEFORCE ESTABLISHMENT SCHELLENBERG LI
Inventor(s): (std): BISCHOFBERGER OTHMAR ; SCHENKEL RENE
Inventor(s): BISCHOFBERGER OTHMAR FL 9488 SCHELLENBERGER LI ; SCHENKEL RENE CH 5432 NEUENHOF CH
Designated states: AT BE CH CZ DE DK ES FR GB GR HU IE IT JP KR LI LU MC NL PT SE

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AT177393 E	19990315	LSGT	+	granted / extensions (spc, cpc, pte)	
AT177393 E	20001015	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT177393 E	20140725	PEXP		Calculated Patent Term Expiry	
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				OPPOSITION	
DE59407924 D1	20000907	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE59407924 D1	20000907	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
EP0669892 A1	19950906	LSPB	+	published / reissued	
EP0669892 A1	19950906		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
EP0669892 A1	19950927	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 19950731
EP0669892 A1	19960911	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 19960729
EP0669892 B1	19990310	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0669892 B1	19990310		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
EP0669892 B1	19990310	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19990310 NotificationOfLapse: THE PATENT HAS BEEN ANNULLED BY A DECISION OF A NATIONAL AUTHORITY Country of Ref document: ES
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EP0669892 B1	19990310	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 19990310 Country of Ref document: FR
EP0669892 B1	19990310	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 19990310 Country of Ref document: IT
EP0669892 B1	19990310	LSLE	-PG25	LAPSED IN A	NotificationOfLapse: LAPSE BECAUSE OF

				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 19990310 Country of Ref document: NL
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EP0669892 B1	19990310		REF	CORRESPONDS TO:	Ref document number: 177393 Date of Ref document: 19990315 Kind code of Ref document: T Country of Ref document: AT
EP0669892 B1	19990315	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP0669892 B1	19990415		REF	CORRESPONDS TO:	Date of Ref document: 19990415 Ref document number: 59407924 Country of Ref document: DE
EP0669892 B1	19990421	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Text: GERMAN Ref country code: IE
EP0669892 B1	19990610	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19990610 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP0669892 B1	19990611	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19990611 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
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EP0669892 B1	19990725	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19990725 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP0669892 B1	19990731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 19990731 Country of Ref document: BE
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EP0669892 B1	19990802	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	Ref country code: EP
EP0669892 B1	19990806		-EN	FR: TRANSLATION NOT FILED	
EP0669892 B1	19990908	LSWD	-GBV	GB: EP PATENT (UK) TREATED AS ALWAYS HAVING BEEN VOID IN ACCORDANCE WITH GB SECTION 77(7)/1977	Ref country code: EP Effective date: 19990310
EP0669892 B1	19991019	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 19991019 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP0669892 B1	19991117	LSWD	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FD4D
EP0669892 B1	20000131	LSLE	-BERE	BE: LAPSED	PartyType: owner Owner: TRADEFORCE ESTABLISHMENT Ref country code: EP Effective date: 19990731
EP0669892 B1	20000131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20000131 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
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EP0669892 B1	20000315	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: PL Ref country code: CH
EP0669892 B1	20000503	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Lapsed date: 20000503 Country of Ref document: DE
EP0669892 B1	20140725	PEXP		Calculated Patent Term Expiry	
WO9503226 A1	19950202	LSPB	+	published / reissued	
WO9503226 A1	19950202		+AK	DESIGNATED STATES	Kind code of Ref document: A1 Country of Ref document: CZ HU JP KR
WO9503226 A1	19950202		+AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS	Kind code of Ref document: A1 Country of Ref document: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

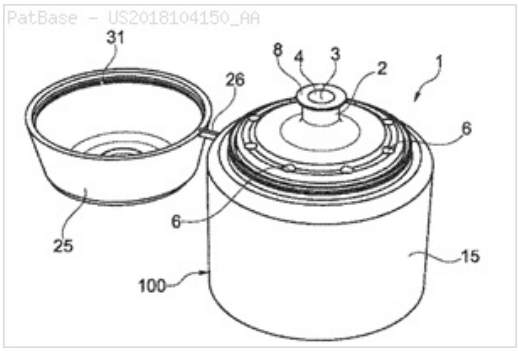
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WO9503226 A1	19990310	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	Ref document number: 1994920863 Country of Ref document: EP

91) Family number: 63841224 (US2018104150 AA)

Title: SEALING **DEVICE** FOR MAKING IT POSSIBLE TO COLLECT A COMPOSITION, PACKAGING ASSEMBLY COMPRISING SUCH A SEALING **DEVICE**, COLLECTION AND PACKAGING METHODS

Abstract: The present invention relates to a sealing **device** to seal a **container**, the sealing **device** including: a tip that defines an internal passage leading to an **opening** and is designed to allow connection to a collection member such as an enteral syringe, a non-return valve that is associated with the tip and is designed to **open** during collection of the contents of the **container** using the collection member, at least one air-return port, and an antibacterial filter associated with said at least one port.

Classifications:
International (IPC 8-9): A61J A61J1/05 A61J1/06 A61J1/14 A61J1/20 A61J3/00 B65B B65B7/00 B65B7/28 B65D41/04 B65D47/00 B65D47/14 B65D47/38 B65D83/00
CPC: A61J1/065 A61J1/1425 A61J1/1481 A61J1/20 A61J1/2051 A61J1/2075 A61J1/2082 A61J1/2096 A61J3/002 B65B7/00 B65D1/00 B65D47/14
US: 1/1 604/414



Family:

Publication number	Publication date	Application number	Application date
CA2982935 AA	20171016	CA20162982935	20160414
CN107750225 A	20180302	CN201680035704	20160414
CN107750225 B	20191011	CN201680035704	20160414
DE602016015192 D1	20190704	DE201660015192T	20160414
EP3283043 A1	20180221	EP20160719282	20160414
EP3283043 B1	20190612	EP20160719282	20160414
ES2745278 T3	20200228	ES20160719282T	20160414
FR3035080 A1	20161021	FR20150053442	20150417
FR3035080 B1	20190809	FR20150053442	20150417
HK1246256 A1	20180907	HK20180105378	20180425
HK1249006 A1	20181026	HK20180108953	20180710
IL255082 A0	20171231	IL20160255082	20160414
IN201737036751 A	20171117	IN201737036751	20171016
JP2018512990 T2	20180524	JP20180505531T	20160414
KR20180008501 A	20180124	KR20177033308	20160414
MX2017013325 A1	20180622	MX20170013325	20160414
PL3283043 T3	20200331	PL20160719282T	20160414
PT3283043 T	20190926	PT20160719282T	20160414
RU2017136441 A	20190517	RU20170136441	20160414
RU2017136441 A3	20190729	RU20170136441	20160414
RU2710242 C2	20191225	RU20170136441	20160414
US2018104150 AA	20180419	US20160567220	20160414
WO16166197 A1	20161020	WO2016EP58194	20160414

Priority:

FR20150053442 20150417 WO2016EP58194 20160414 EP20160719282 20160414
RU20170136441 20160414

Probable Assignee: CENTRE HOSPITALIER UNIVERSITAIRE D AMIENS PICARDIE

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Inventor(s): (std): DUBAELE JEAN MARC ; GUILLEMAUT THIERRY ; JEAN MARC DUBAELE ; THIERRY GUILLEMAUT

Inventor(s): DYUBAL ZHAN MARK ; GIJEMO TERI

Agent(s): CABINET NONY; CHINAHONGKONG IP LTD; MARIA ISABEL LEHMANN LEHMANN; MATSUI MITSUO; NONY; ROBIC

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2982935 AA	20171016	LSPB	+	published / reissued	
CN107750225 A	20180302	LSPB	+	published / reissued	
CN107750225 A	20180302	LSPB	PB01	PUBLICATION	
CN107750225 A	20180302	LSPB	PB01	公开	Text: 公开 (Disclosure)

CN107750225 A	20180410		SE01	ENTRY INTO FORCE OF REQUEST FOR SUBSTANTIVE EXAMINATION	
CN107750225 A	20180410		SE01	实质审查请求的生效	Text: 实质审查的生效 (Force of substantive review)
CN107750225 A	20180907		REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: DE Ref country code: HK Ref document number: 1246256 Country of Ref document: HK
CN107750225 B	20191011	LSGT	+	granted / extensions (spc, cpc, pte)	
CN107750225 B	20191011	LSGT	+GR01	PATENT GRANT	
CN107750225 B	20191011	LSGT	+GR01	授权	Text: 授权 (Authorization)
CN107750225 B	20360414	PEXP		Calculated Patent Term Expiry	
EP3283043 A1	20180221	LSPB	+	published / reissued	
EP3283043 A1	20180221	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20171106
EP3283043 A1	20180221		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AL AT 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 SM TR
EP3283043 A1	20180221		+AV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT	Country of Ref document: MA MD
EP3283043 A1	20180221		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: BA ME
EP3283043 A1	20180725		DAV	REQUEST FOR VALIDATION OF THE EUROPEAN PATENT (DELETED)	
EP3283043 A1	20180725		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP3283043 A1	20181026		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1249006 Ref legal event code: DE Country of Ref document: HK
EP3283043 A1	20190213	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	Effective date: 20190117
EP3283043 B1	20190612	LSGT	+	granted / extensions (spc, cpc, pte)	
EP3283043 B1	20190612		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AL AT 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 SM TR
EP3283043 B1	20190612	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Text: NOT ENGLISH Ref country code: GB
EP3283043 B1	20190614	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: EP Ref country code: CH
EP3283043 B1	20190615	LSNP	REG	REFERENCE TO A NATIONAL CODE	Kind code of Ref document: T Effective date: 20190615 Ref legal event code: REF Ref country code: AT Ref document number: 1141649 Country of Ref document: AT
EP3283043 B1	20190704	LSPB	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602016015192 Ref legal event code: R096 Country of Ref document: DE
EP3283043 B1	20190710	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: FG4D Text: LANGUAGE OF EP DOCUMENT: FRENCH Ref country code: IE
EP3283043 B1	20190918		REG	REFERENCE TO	Ref country code: NL

				A NATIONAL CODE	Ref legal event code: FP
EP3283043 B1	20190926		REG	REFERENCE TO A NATIONAL CODE	Date of Ref document: 20190926 Effective date: 20190905 Kind code of Ref document: T Ref document number: 3283043 Ref legal event code: SC4A Ref country code: PT Text: AVAILABILITY OF NATIONAL TRANSLATION Country of Ref document: PT
EP3283043 B1	20191025	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref legal event code: MG4D Ref country code: LT
EP3283043 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190912 Country of Ref document: NO
EP3283043 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: FI
EP3283043 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: LT
EP3283043 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: AL
EP3283043 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: HR
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EP3283043 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: RS
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				NATIONAL OFFICE TO EPO]	
EP3283043 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190912 Country of Ref document: BG
EP3283043 B1	20200124	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 20190402781 Ref country code: GR Effective date: 20191128 Ref legal event code: EP Country of Ref document: GR
EP3283043 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: RO
EP3283043 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP3283043 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: CZ
EP3283043 B1	20200131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: EE
EP3283043 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20191012 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP3283043 B1	20200228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SM
EP3283043 B1	20200228	LSGT	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20200228 Kind code of Ref document: T3 Ref country code: ES Ref document number: 2745278 Ref legal event code: FG2A Country of Ref document: ES
EP3283043 B1	20200313	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref document number: 602016015192 Ref country code: DE Ref legal event code: R097 Country of Ref document: DE

EP3283043 B1	20200331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR
EP3283043 B1	20200501	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20190612 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP3283043 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200313 Year of fee payment: 5 Country of Ref document: GR
EP3283043 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200316 Year of fee payment: 5 Country of Ref document: PL
EP3283043 B1	20200501	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 5 Payment date: 20200316 Country of Ref document: PT
EP3283043 B1	20200520	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20200313
EP3283043 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20190612 Country of Ref document: SI
EP3283043 B1	20200529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Lapsed date: 20200224 Country of Ref document: IS
EP3283043 B1	20200615	LSPB	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20190612 Ref legal event code: UEP Ref country code: AT Ref document number: 1141649 Kind code of Ref document: T Country of Ref document: AT
EP3283043 B1	20200730		PG2D	INFORMATION ON LAPSE IN CONTRACTING STATE DELETED	
EP3283043 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 5 Payment date: 20200408 Country of Ref document: DE
EP3283043 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL	Payment date: 20200424 Year of fee payment: 5 Country of Ref document: CH

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EP3283043 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200430 Year of fee payment: 5 Country of Ref document: FR
EP3283043 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 5 Payment date: 20200313 Country of Ref document: NL
EP3283043 B1	20200731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200518 Year of fee payment: 5 Country of Ref document: ES
EP3283043 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200427 Year of fee payment: 5 Country of Ref document: GB
EP3283043 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200416 Year of fee payment: 5 Country of Ref document: IT
EP3283043 B1	20200831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20200415 Year of fee payment: 5 Country of Ref document: BE
EP3283043 B1	20360414	PEXP		Calculated Patent Term Expiry	
ES2745278 T3	20200228	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2745278 T3	20200228	LSGT	+FG2A	DEFINITIVE PROTECTION	Filing date: 20200228 Effective date: 20200228
ES2745278 T3	20360414	PEXP		Calculated Patent Term Expiry	
FR3035080 A1	20160428	LSFE	+PLFP	FEE PAYMENT	Year of fee payment: 2
FR3035080 A1	20161021	LSPB	+	published / reissued	
FR3035080 A1	20161021	LSES	PLSC	SEARCH REPORT READY	Effective date: 20161021
FR3035080 A1	20161021		SC	SEARCH COMPLETED	
FR3035080 A1	20161021		SC	SEARCH COMPLETED	BOPI Date: 2016-42
FR3035080 A1	20170428	LSFE	+PLFP	FEE PAYMENT	Year of fee payment: 3
FR3035080 A1	20180426	LSFE	+PLFP	FEE PAYMENT	Year of fee payment: 4
FR3035080 A1	20190429	LSFE	+PLFP	Fee Payement	Year of fee payment: 5 Payment date: 20190429
FR3035080 A1	20190429	LSFE	+PLFP	FEE PAYMENT	Year of fee payment: 5
FR3035080 B1	20190809	LSGT	+	granted / extensions	

				(spc, cpc, pte)	
FR3035080 B1	20350417	PEXP		Calculated Patent Term Expiry	
HK1246256 A1	20180907	LSPB	+	published / reissued	
HK1249006 A1	20181026	LSPB	+	published / reissued	
IN201737036751 A	20171117	LSPB	+	published / reissued	
JP2018512990 T2	20180202		A632	国内書面	Effective date: 20171013
JP2018512990 T2	20180202		A634	国際出願翻訳文提出書	Effective date: 20171206
JP2018512990 T2	20180223		A231	出願番号特定通知書	Effective date: 20180223
JP2018512990 T2	20180524	LSPB	+	published / reissued	
JP2018512990 T2	20190326	LSRE	A521	WRITTEN AMENDMENT	Text: JAPANESE INTERMEDIATE CODE: A523 Effective date: 20190326
JP2018512990 T2	20190326		A523	手続補正書	Effective date: 20190326
JP2018512990 T2	20190326	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Text: JAPANESE INTERMEDIATE CODE: A621 Effective date: 20190326
JP2018512990 T2	20190326	LSES	+A621	出願審査請求書	Effective date: 20190326
JP2018512990 T2	20190326		A781	上申書	Effective date: 20190326
JP2018512990 T2	20200121	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20200121 Text: JAPANESE INTERMEDIATE CODE: A131
JP2018512990 T2	20200121	LSES	-A131	拒絶理由通知書	Effective date: 20200121
JP2018512990 T2	20200415		A601	WRITTEN REQUEST FOR EXTENSION OF TIME	Effective date: 20200415 Text: JAPANESE INTERMEDIATE CODE: A601
JP2018512990 T2	20200415		A601	期間延長請求書	Effective date: 20200415
JP2018512990 T2	20200716	LSRE	A521	WRITTEN AMENDMENT	Text: JAPANESE INTERMEDIATE CODE: A523 Effective date: 20200716
JP2018512990 T2	20200716		A523	手続補正書	Effective date: 20200716
JP2018512990 T2	20200716		A53	意見書	Effective date: 20200716
JP2018512990 T2	20200819	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Text: JAPANESE INTERMEDIATE CODE: A131 Effective date: 20200819
JP2018512990 T2	20200819	LSES	-A131	拒絶理由通知書	Effective date: 20200819
KR20180008501 A	20180124	LSPB	+	published / reissued	
MX2017013325 A1	20180622	LSPB	+	published / reissued	
PL3283043 T3	20200331	LSGT	+	granted / extensions (spc, cpc, pte)	
PT3283043 T	20190926	LSGT	+	granted / extensions (spc, cpc, pte)	
PT3283043 T	20360414	PEXP		Calculated Patent Term Expiry	
RU2017136441 A	20190517	LSPB	+	published / reissued	
RU2710242 C2	20191225	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2710242 C2	20360414	PEXP		Calculated Patent Term Expiry	
US2018104150 AA	20180109	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:DUBAELE, JEAN-MARC;GUILLEMAUT, THIERRY;SIGNING DATES FROM 20171017 TO 20171026;REEL/FRAME:044574/0230 Owner: CENTRE HOSPITALIER UNIVERSITAIRE D'AMIENS-PICARDIE PartyType: owner

US2018104150 AA	20180112		APP1	Application Dispatched from Preexam, Not Yet Docketed	
US2018104150 AA	20180419	LSPB	+	published / reissued	
US2018104150 AA	20180603		RFE1	Docketed New Case - Ready for Examination	
US2018104150 AA	20180603		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: DOCKETED NEW CASE - READY FOR EXAMINATION
US2018104150 AA	20191227	LSES	NFA1	Non Final Action Mailed	
US2018104150 AA	20191227		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: NON FINAL ACTION MAILED
US2018104150 AA	20200327		RSP4	Response to Non-Final Office Action Entered and Forwarded to Examiner	
US2018104150 AA	20200327		STPP	INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING PROCEDURE IN GENERAL	Text: RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER
US2018104150 AA	20200529		FRM1	Final Rejection Mailed	
US2018104150 AA	20200904		RFE1	Docketed New Case - Ready for Examination	
WO16166197 A1	20161020	LSPB	+	published / reissued	
WO16166197 A1	20161130		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A1 Ref document number: 16719282 Country of Ref document: EP
WO16166197 A1	20171013	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 2018505531 Country of Ref document: JP
WO16166197 A1	20171016	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: 2982935 Country of Ref document: CA
WO16166197 A1	20171016	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: MX/A/2017/013325 Country of Ref document: MX
WO16166197 A1	20171017	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 255082 Country of Ref document: IL
WO16166197 A1	20171017	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 15567220 Country of Ref document: US
WO16166197 A1	20171018	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO16166197 A1	20171117	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Kind code of Ref document: A Ref document number: 20177033308 Country of Ref document: KR
WO16166197 A1	20171117	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL	Ref document number: 2017136441 Country of Ref document: RU

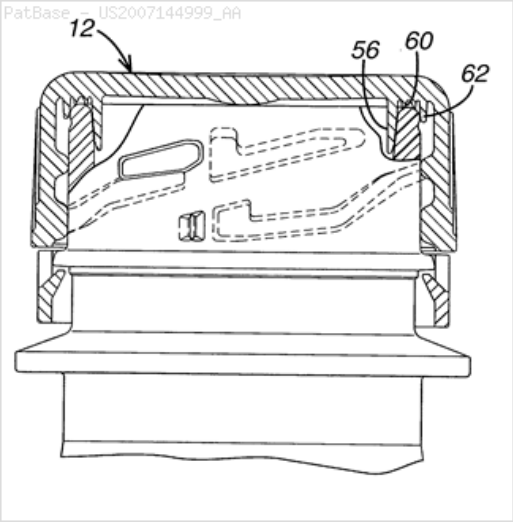
PHASE

92) Family number: 30322055 (US2007144999 AA)

Title: BOTTLE AND **CLOSURE** ASSEMBLY WITH IMPROVED **LOCKING** ELEMENTS

Abstract: A threaded **container** **closure** assembly, comprising: a **container** neck (10) having an **opening**; a-.**closure** (12) for said neck, the **closure** having a base portion (22) and a skirt portion (24), a first screw thread on the neck said first screw thread comprising one or more first thread segments (16), and a second screw thread on an inner surface of the skirt of the **closure**, said second screw thread comprising one or more second thread segments (26); a first **locking** projection (44) on the **container** neck separate from the first thread segments (16) and a second **locking** projection (46) on the inner surface of the skirt of the **closure** separate from the second thread segments (26), said first and second **locking** projections being configured to resist unscrewing of the **closure** from the fully engaged position on the **container** neck after the **closure** has been **secured** or resecured on the **container** neck until a predetermined minimum **opening** torque is applied; wherein said first and second **locking** projections (44, 46) longitudinally overlap the first or the second thread segments when the **closure** is in the fully engaged position on the **container** neck.

Classifications:
International (IPC 8-9): B65D B65D41/04 B65D41/06 B65D41/28 B65D41/34 F16B39/00 F16B39/30
International (IPC 1-7): B65D41/04 B65D41/28
CPC: B65D41/04 B65D41/0421 B65D41/28
US: 215/307 215/329 215/330 215/331 220/293 220/296 220/300



Family:

Publication number	Publication date	Application number	Application date
AT441597 E	20090915	AT20040805927T	20041203
AU2004299319 AA	20050630	AU20040299319	20041203
AU2004299319 BB	20100930	AU20040299319	20041203
BRPI0417779 A	20070320	BR2004PI17779	20041203
BRPI0417779 B1	20161116	BR2004PI17779	20041203
CA2550617 AA	20060616	CA20042550617	20041203
CA2550617 C	20120918	CA20042550617	20041203
CN1894139 A	20070110	CN200480037537	20041203
CN1894139 B	20110803	CN200480037537	20041203
CY1110560 T1	20150429	CY20091101255T	20091201
DE602004022977 D1	20091015	DE200460022977T	20041203
DK1694575 T3	20091102	DK20040805927T	20041203
EP1694575 A1	20060830	EP20040805927	20041203
EP1694575 B1	20090902	EP20040805927	20041203
EP1694575 B8	20091014	EP20040805927	20041203
ES2332179 T3	20100128	ES20040805927T	20041203
GB200329444 A0	20040128	GB20030029444	20031219
GB2409200 A1	20050622	GB20030029444	20031219
GB2409200 B2	20070117	GB20030029444	20031219
HK1077554 A1	20060217	HK20050109573	20051027
HK1077554 A3	20060217	HK20050109573	20051027
HK1077554 B	20070518	HK20050109573	20051027
JP2007514619 T2	20070607	JP20060544536T	20041203
JP4686476 B2	20110525	JP20060544536T	20041203
MXPA06006898 A1	20060904	MX2006PA06898	20041203
PT1694575 T	20091006	PT20040805927T	20041203
RU2006125732 A	20080127	RU20060125732	20041203
RU2374155 C2	20091127	RU20060125732	20041203
US2007144999 AA	20070628	US20040582437	20041203
US7942287 BB	20110517	US20040582437	20041203
WO05058720 A1	20050630	WO2004GB05099	20041203

Priority:
GB20030029444 20031219 WO2004GB05099 20041203 EP20040805927 20041203

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Inventor(s): (std): KING RODZHER MILNER ; KING ROGER M ; KING ROGER MILNER ; MILNER KING ROGER

Inventor(s): KING ROGER ; ROGER MILNER KING

Agent(s): CHINA PATENT AGENT HK LTD; FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; JAMES ANTHONY CHRISTOPHER W P; MARK F; MARK F SMITH SMITH BRANDENBURG AND NOVAK LTD; NORTON ROSE CANADA SENCRL SRL LLP; OGILVY RENAULT LLP SENCRL SRL; OHSHIMA MASATAKA; SMITH

BRANDENBURG LTD

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT441597 E	20090915	LSGT	+	granted / extensions (spc, cpc, pte)	
AT441597 E	20100215	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	Ref document number: 1694575 Country of Ref document: EP
AT441597 E	20241203	PEXP		Calculated Patent Term Expiry	
AU2004299319 AA	20050630	LSPB	+	published / reissued	
AU2004299319 BB	20100930	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2004299319 BB	20110127	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2004299319 BB	20180628	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2004299319 BB	20241203	PEXP		Calculated Patent Term Expiry	
BRPI0417779 A	20070320	LSPB	+	published / reissued	
BRPI0417779 A	20160223		B06A	NOTIFICATION TO APPLICANT TO REPLY TO THE REPORT FOR NON-PATENTABILITY OR INADEQUACY OF THE APPLICATION ACCORDING ART. 36 INDUSTRIAL PATENT LAW	
BRPI0417779 A	20160913	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI0417779 B1	20161116	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	Text: PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 16/11/2016, OBSERVADAS AS CONDICOES LEGAIS.
BRPI0417779 B1	20171010	LSLE	-B21F	LAPSE ACC. ART. 78, ITEM IV - ON NON-PAYMENT OF THE ANNUAL FEES IN TIME	
BRPI0417779 B1	20180130	LSLE	-B24J	LAPSE BECAUSE OF NON-PAYMENT OF ANNUAL FEES (DEFINITIVELY: ART 78 IV LPI, RESOLUTION 113/2013 ART. 12)	
BRPI0417779 B1	20261116	PEXP		Calculated Patent Term Expiry	
CA2550617 AA	20060616	LSPB	+	published / reissued	
CA2550617 AA	20091203	LSES	+EEER	EXAMINATION REQUEST	
CA2550617 C	20120918	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2550617 C	20190115	LSLE	-MKLA	LAPSED	Effective date: 20181203
CA2550617 C	20241203	PEXP		Calculated Patent Term Expiry	
CN1894139 A	20070110	LSPB	+	published / reissued	
CN1894139 A	20070110	LSPB	+C06	PUBLICATION	
CN1894139 A	20070307		C10	ENTRY INTO SUBSTANTIVE EXAMINATION	
CN1894139 B	20110803	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1894139 B	20110803	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1894139 B	20181123	LSLE	-CF01	TERMINATION OF	

				PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN1894139 B	20241203	PEXP		Calculated Patent Term Expiry	
CY1110560 T1	20150429	LSGT	+	granted / extensions (spc, cpc, pte)	
DE602004022977 D1	20091126	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	Owner: BEESON AND SONS LTD., GERRADS CROSS, GB PartyType: owner
DE602004022977 D1	20100923	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE602004022977 D1	20180703	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
DK1694575 T3	20091102	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1694575 T3	20241203	PEXP		Calculated Patent Term Expiry	
EP1694575 A1	20060830	LSPB	+	published / reissued	
EP1694575 A1	20060830	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20060630
EP1694575 A1	20060830		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
EP1694575 A1	20070328		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP1694575 A1	20080827	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20080725
EP1694575 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151125 Year of fee payment: 12 Country of Ref document: DE
EP1694575 A1	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151202 Year of fee payment: 12 Country of Ref document: GB
EP1694575 A1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151111 Year of fee payment: 12 Country of Ref document: ES
EP1694575 A1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151110 Year of fee payment: 12 Country of Ref document: FR
EP1694575 B1	20090902	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1694575 B1	20090902		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
EP1694575 B1	20090915	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP1694575 B1	20090916	LSAS	RAP2	RIGHTS OF A PATENT TRANSFERRED	Owner: BEESON AND SONS LIMITED PartyType: owner
EP1694575 B1	20090930	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP1694575 B1	20091006		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20090928 Ref country code: PT Ref legal event code: SC4A Text: AVAILABILITY OF NATIONAL TRANSLATION
EP1694575 B1	20241203	PEXP		Calculated Patent Term Expiry	
EP1694575 B8	20091015		REF	CORRESPONDS TO:	Date of Ref document: 20091015 Kind code of Ref document: P

					Ref document number: 602004022977 Country of Ref document: DE
EP1694575 B8	20091030		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: CH Ref legal event code: NV Representative: PATENTANWAELTE SCHAAD, BALASS, MENZL & PARTNER AG
EP1694575 B8	20091102		NLT2	NL: MODIFICATIONS (OF NAMES), TAKEN FROM THE EUROPEAN PATENT PATENT BULLETIN	Effective date: 20090916 Owner: BEESON AND SONS LIMITED PartyType: owner
EP1694575 B8	20091102		REG	REFERENCE TO A NATIONAL CODE	Ref country code: DK Ref legal event code: T3
EP1694575 B8	20091117		REG	REFERENCE TO A NATIONAL CODE	Ref country code: SE Ref legal event code: TRGR
EP1694575 B8	20091119	LSRE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GR Ref document number: 20090402654 Ref legal event code: EP Country of Ref document: GR
EP1694575 B8	20100128	LSGT	REG	REFERENCE TO A NATIONAL CODE	Kind code of Ref document: T3 Ref country code: ES Ref document number: 2332179 Ref legal event code: FG2A Country of Ref document: ES
EP1694575 B8	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090902 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP1694575 B8	20100225	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	Effective date: 20090902 Ref country code: EP
EP1694575 B8	20100226	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090902 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP1694575 B8	20100226	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090902 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PL
EP1694575 B8	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090902 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP1694575 B8	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090902 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP1694575 B8	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO	Lapsed date: 20100102 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY

				EPO]	THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP1694575 B8	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090902 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP1694575 B8	20100531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20090902 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP1694575 B8	20100811	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20100603
EP1694575 B8	20110331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20091231 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP1694575 B8	20110630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20100303 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HU
EP1694575 B8	20140228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20131129 Year of fee payment: 10 Country of Ref document: TR
EP1694575 B8	20141231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141211 Year of fee payment: 11 Country of Ref document: DK
EP1694575 B8	20150130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141211 Year of fee payment: 11 Country of Ref document: LU
EP1694575 B8	20150130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141028 Year of fee payment: 11 Country of Ref document: MC
EP1694575 B8	20150130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141209 Year of fee payment: 11 Country of Ref document: FI
EP1694575 B8	20150130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141212 Year of fee payment: 11 Country of Ref document: CH
EP1694575 B8	20150130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141209 Year of fee payment: 11 Country of Ref document: IE
EP1694575 B8	20150130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141112 Year of fee payment: 11 Country of Ref document: GR
EP1694575 B8	20150130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141211 Year of fee payment: 11 Country of Ref document: SE
EP1694575 B8	20150227	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO	Payment date: 20141210 Year of fee payment: 11 Country of Ref document: NL

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EP1694575 B8	20150227	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141125 Year of fee payment: 11 Country of Ref document: AT
EP1694575 B8	20150227	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141202 Year of fee payment: 11 Country of Ref document: PT
EP1694575 B8	20150331	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141209 Year of fee payment: 11 Country of Ref document: IT
EP1694575 B8	20150529	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141121 Year of fee payment: 11 Country of Ref document: CY
EP1694575 B8	20150630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20141211 Year of fee payment: 11 Country of Ref document: BE
EP1694575 B8	20151110	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 12 Country of Ref document: FR
EP1694575 B8	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: BE
EP1694575 B8	20160609	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160603 Ref country code: PT Ref legal event code: MM4A Text: LAPSE DUE TO NON-PAYMENT OF FEES
EP1694575 B8	20160718	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20151231 Ref country code: DK Ref legal event code: EBP
EP1694575 B8	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151203 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CY
EP1694575 B8	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151203 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1694575 B8	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP1694575 B8	20160729	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP1694575 B8	20160802	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: SE Ref legal event code: EUG
EP1694575 B8	20160815	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20151203 Kind code of Ref document: T Ref country code: AT Ref document number: 441597 Ref legal event code: MM01 Country of Ref document: AT
EP1694575 B8	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160603 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PT
EP1694575 B8	20160831	LSLE	-PG25	LAPSED IN A	Lapsed date: 20151204

				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: SE
EP1694575 B8	20160907		REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160101 Ref country code: NL Ref legal event code: MM
EP1694575 B8	20160921	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP1694575 B8	20161003	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160707 Ref country code: GR Ref document number: 20090402654 Ref legal event code: ML Country of Ref document: GR
EP1694575 B8	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP1694575 B8	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP1694575 B8	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160101 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: NL
EP1694575 B8	20161031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151203 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP1694575 B8	20161111	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 13 Country of Ref document: FR
EP1694575 B8	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151203 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: AT
EP1694575 B8	20161130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20160707 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GR
EP1694575 B8	20161230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151203 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IT
EP1694575 B8	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151231 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DK
EP1694575 B8	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161111 Year of fee payment: 13 Country of Ref document: FR
EP1694575 B8	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161130 Year of fee payment: 13 Country of Ref document: GB
EP1694575 B8	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE	Payment date: 20161129 Year of fee payment: 13

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EP1694575 B8	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161111 Year of fee payment: 13 Country of Ref document: ES
EP1694575 B8	20170630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151203 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FI
EP1694575 B8	20170831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20151203 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: TR
EP1694575 B8	20180703	LSDW	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602004022977 Ref legal event code: R119 Country of Ref document: DE
EP1694575 B8	20180829	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20171203 Ref country code: EP
EP1694575 B8	20180928	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20180831 Ref country code: FR Ref legal event code: ST
EP1694575 B8	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180102 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FR
EP1694575 B8	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20180703 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DE
EP1694575 B8	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20171203 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: GB
EP1694575 B8	20190702	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20190702 Ref country code: ES Ref legal event code: FD2A
EP1694575 B8	20190731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20171204 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: ES
ES2332179 T3	20100128	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2332179 T3	20241203	PEXP		Calculated Patent Term Expiry	
GB2409200 A1	20050622	LSPB	+	published / reissued	
GB2409200 A1	20060217		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1077554 Ref legal event code: DE Country of Ref document: HK
GB2409200 B2	20070117	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2409200 B2	20070518	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1077554 Ref legal event code: GR Country of Ref document: HK
GB2409200 B2	20111102	LSRV	-S73	REVOCATION ON COMPTROLLER'S INITIATIVE (SECTION	Text: PATENT REVOKED; PATENT REVOKED UNDER SECTION 73(2) ON 11

				73/PATENTS ACT 1977)	OCTOBER 2011
GB2409200 B2	20231219	PEXP		Calculated Patent Term Expiry	
HK1077554 A1	20060217	LSPB	+	published / reissued	
HK1077554 A1	20160715	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	Effective date: 20151219
HK1077554 A1	20251027	PEXP		Calculated Patent Term Expiry	
HK1077554 A3	20060217	LSPB	+	published / reissued	
HK1077554 B	20070518	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1077554 B	20251027	PEXP		Calculated Patent Term Expiry	
JP2007514619 T2	20070607	LSPB	+	published / reissued	
JP2007514619 T2	20070718	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	Effective date: 20070717 Text: JAPANESE INTERMEDIATE CODE: A621
JP2007514619 T2	20100603	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	Effective date: 20100602 Text: JAPANESE INTERMEDIATE CODE: A131
JP2007514619 T2	20100811	LSRE	A521	WRITTEN AMENDMENT	Effective date: 20100810 Text: JAPANESE INTERMEDIATE CODE: A523
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JP2007514619 T2	20110120	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	Effective date: 20110119 Text: JAPANESE INTERMEDIATE CODE: A01
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JP2007514619 T2	20110217	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	Effective date: 20110214 Text: JAPANESE INTERMEDIATE CODE: A61
JP2007514619 T2	20110218	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	Year of fee payment: 3
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JP4686476 B2	20110215	LSFE	R100	特許料納付書	
JP4686476 B2	20110218	LSGT	+R150	特許証	
JP4686476 B2	20110525	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4686476 B2	20140130	LSFE	R20	特許料納付書	
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JP4686476 B2	20150129	LSFE	R20	特許料納付書	
JP4686476 B2	20150203	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
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JP4686476 B2	20160128	LSFE	R20	特許料納付書	
JP4686476 B2	20160202	LSFE	+R250	RECEIPT OF ANNUAL FEES	Text: JAPANESE INTERMEDIATE CODE: R250
JP4686476 B2	20160202	LSFE	+R250	年金領収書, 年金領収書 (分納)	
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JP4686476 B2	20241203	PEXP		Calculated Patent Term	

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PT1694575 T	20091006	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1694575 T	20241203	PEXP		Calculated Patent Term Expiry	
RU2006125732 A	20080127	LSPB	+	published / reissued	
RU2374155 C2	20091127	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2374155 C2	20110227	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	Effective date: 20091204
RU2374155 C2	20120927	LSRE	+NF4A	REINSTATEMENT OF PATENT	Effective date: 20120927
RU2374155 C2	20180904	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	Effective date: 20171204
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US2007144999 AA	20070628	LSPB	+	published / reissued	
US2007144999 AA	20110427	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US7942287 BB	20110427	LSGT	PAT1	Patented Case	
US7942287 BB	20110517	LSGT	+	granted / extensions (spc, cpc, pte)	
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US7942287 BB	20270320	PEXP		Calculated Patent Term Expiry (PTA 837 days)	
WO05058720 A1	20041203	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 200480037537.X Country of Ref document: CN
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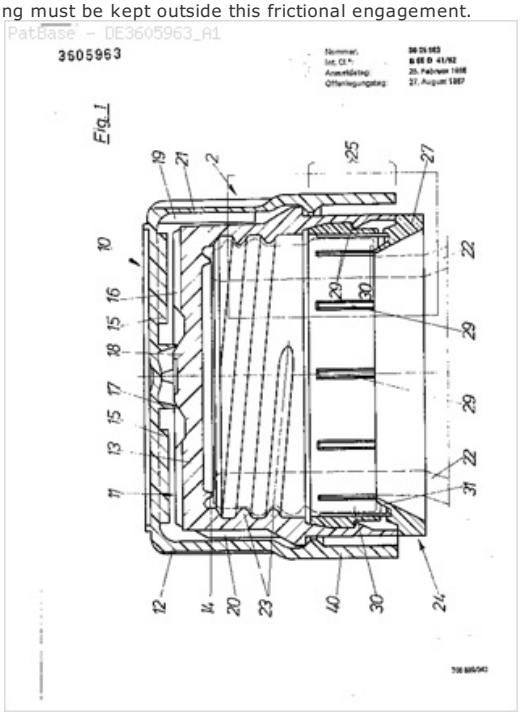
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WO05058720 A1	20060616	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: PA/a/2006/006898 Country of Ref document: MX
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WO05058720 A1	20060630	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2004805927 Country of Ref document: EP
WO05058720 A1	20060706	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Date of Ref document: 20041203 Kind code of Ref document: A Ref document number: 2004299319 Country of Ref document: AU
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WO05058720 A1	20060719	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2006125732 Country of Ref document: RU
WO05058720 A1	20060830	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 2004805927 Country of Ref document: EP
WO05058720 A1	20060905	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 10582437 Country of Ref document: US
WO05058720 A1	20060905	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2007144999 Country of Ref document: US
WO05058720 A1	20070320	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	Ref document number: PI0417779 Country of Ref document: BR
WO05058720 A1	20070628	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 10582437 Country of Ref document: US

93) Family number: 4621149 (DE3605963 A1)

Title: Safety **container** **closure**

Abstract: A safety **container** **closure**, having a threaded **closure** cap, which can only be unscrewed by applying an additional **opening** action, that is to say is fitted with a child-resistant safeguard, and having a tamper-indicating **securing** **device** which is fitted with a tear-off ring, is improved to the extent that a tamper-indicating **securing** ring is provided, which can be produced separately, can be inserted in the inner cap of the threaded **closure** cap and comprises a tear-off ring and a carrier ring which is connected to the latter via tear-off elements, the carrier ring being in frictional engagement with the inner cap only by means of catch **devices** which become hooked axially in the unscrewing direction. Additionally, a frictional engagement can be formed between the collar of the **container** neck via the carrier ring of the tamper-indicating **securing** ring onto the inner cap of the threaded **closure** cap, which makes the function of the child-resistant safeguard on the threaded **closure** cap safer. In this case, however, the tear-off ring must be kept outside this frictional engagement.

Classifications:
International (IPC 8-9): B65D41/34 B65D50/00 B65D50/04
International (IPC 1-7): B65D41/62 B65D51/18 B65D55/12
CPC: B65D41/3438 B65D50/041



Family:

Publication number	Publication date	Application number	Application date
DE3605963 A1	19870827	DE19863605963	19860225
IT1202548 A	19890209	IT19870019387	19870213
IT8719387 A0	19870213	IT19870019387	19870213

Priority:
DE19863605963 19860225

Probable Assignee:	DEUSSEN STELLA KG
Assignee(s): (std):	DEUSSEN STELLA KG
Assignee(s):	STELLA KG WERNER DEUSSEN
Inventor(s): (std):	DEUSSEN WERNER ; WERNER DEUSSEN
Inventor(s):	VERZICHT DES ERFINDERS AUF NENNUNG

Legal status (INPADOC)

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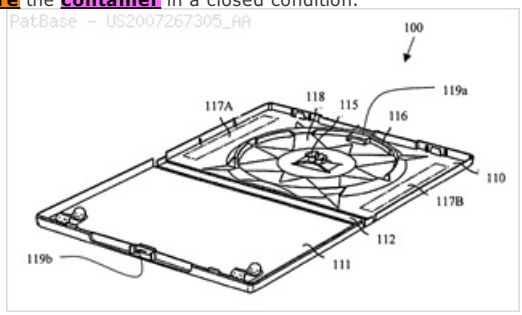
Patent	Date recorded	Event group	Code	Event	Details
DE3605963 A1	19870827	LSPB	+	published / reissued	
DE3605963 A1	19930304	LSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
DE3605963 A1	19930422	LSAS	8127	NEW PERSON/NAME/ADDRESS OF THE APPLICANT	PartyType: owner Owner: DEUSSEN KUNSTSTOFFTECHNIK INHABER HEINO DEUSSEN, 6
DE3605963 A1	19930603	LSAS	8127	NEW PERSON/NAME/ADDRESS OF THE APPLICANT	Owner: STELLA KUNSTSTOFFTECHNIK GMBH, 6228 ELTVILLE, DE PartyType: owner
DE3605963 A1	19941027	LSWD	-8130	WITHDRAWAL	
IT1202548 A	19890209	LSGT	+	granted / extensions (spc, cpc, pte)	
IT1202548 A	19991027	LSFE	TA	FEE PAYMENT DATE (SITUATION AS OF EVENT DATE), DATA COLLECTED SINCE 19931001	Effective date: 19970226

IT1202548 A	20070213	PEXP	Calculated Patent Term Expiry

94) Family number: 31923747 (US2007267305 AA)

Title: MEDIA **CONTAINER** WITH BAND HEADER

Abstract: A **container** for carrying an information storage medium includes top and bottom walls connected by a hinge or spine with each wall having upper and lower faces and side walls and end walls extending inwardly therefrom. The **container** further includes a medium-engaging element for **securing** the storage medium thereto, and a display region provided on the upper face of the top wall, in a region proximate at least one of the first and second end walls. The top and bottom walls, together with their respective side walls and end walls form first and second covers, respectively. The covers are hinged together, and are provided with latching features to **secure** the **container** in a closed condition.



Classifications:
International (IPC 8-9): A45C13/10 B29C33/00 B29C33/38 B29C33/56 B29C45/00 B29C45/26 B65D69/00 B65D85/30 B65D85/57 E05B65/00 E05B73/00 G11B G11B33/00 G11B33/04
CPC: E05B73/0023 G11B33/0405 B29C33/3828 B29C33/3842 B29C33/56 B29C45/2673 G11B33/04 Y10T70/5004 G11B33/0427
US: 206/1.5 206/223 206/307 206/308.1 206/308.100P 206/308.2 264/219 264/259 264/259S 264/328.1 425/542 425/542S 70/57.1 G9B/33.006 G9B/33.011 G9B/33.011S

Family:

Publication number	Publication date	Application number	Application date
AT484056 E	20101015	AT20060022069T	20061020
AT484373 E	20101015	AT20060726389T	20060313
DE602006017317 D1	20101118	DE200660017317T	20061020
DE602006017525 D1	20101125	DE200660017525T	20060313
DE602006035478 D1	20130529	DE200660035478T	20061020
EP1777707 A1	20070425	EP20060022069	20061020
EP1777707 B1	20101006	EP20060022069	20061020
EP1777707 B9	20110223	EP20060022069	20061020
EP1863626 A1	20071212	EP20060726389	20060313
EP1863626 B1	20101013	EP20060726389	20060313
EP1949377 A2	20080730	EP20060826230	20061020
EP2256742 A2	20101201	EP20100175146	20061020
EP2256742 A3	20110413	EP20100175146	20061020
EP2256743 A2	20101201	EP20100175147	20061020
EP2256743 A3	20110511	EP20100175147	20061020
EP2256743 B1	20130403	EP20100175147	20061020
GB200505004 A0	20050420	GB20050005004	20050311
HK1151621 A1	20120203	HK20110105502	20110601
HK1151622 A1	20120203	HK20110105503	20110601
PL1777707 T3	20111031	PL20060022069T	20061020
PL1863626 T3	20110531	PL20060726389T	20060313
PL2256743 T3	20130930	PL20100175147T	20061020
US2008011625 AA	20080117	US20060584288	20061020
US7757848 BB	20100720	US20060584288	20061020
US2007267305 AA	20071122	US20060584289	20061020
US2008289980 AA	20081127	US20060590981	20060313
US7875222 BB	20110125	US20060590981	20060313
US2010320104 AA	20101223	US20100836092	20100714
WO06095202 A1	20060914	WO2006GB00903	20060313
WO07047797 A2	20070426	WO2006US40793	20061020
WO07047797 A3	20070816	WO2006US40793	20061020
WO07047801 A1	20070426	WO2006US40804	20061020

Priority:

GB20050005004 20050311
US20050728612P 20051020
WO2006GB00903 20060313
US20060820693P 20060728
WO2006US40793 20061020
US20060584288 20061020
US20050728456P 20051020
US20050731918P 20051030
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US20060590981 20060829
EP20060022069 20061020
US20100836092 20100714
US20050728497P 20051020
US20050755458P 20051230
US20060590981 20060313
EP20100175147 20061020
US20060584289 20061020

Probable Assignee: ATLAS AGI HOLDINGS LLC

Assignee(s) (std)**:** ATLAS AGI HOLDINGS LLC ; DUBOIS LTD ; FREITAG KENNY ; GELARDI JOHN A ; JOHNSTON ROBERT ; KOSTYUN JAMES ; MEADWESTVACO CORP ; MEADWESTVACO PACKAGING SYSTEMS ; PHILIPPE JAMES

Assignee(s): ATLAS AGI HOLDINGS LLC AND AGI SHOREWOOD GROUP US LLC WAS KNOWN AS SHOREWOOD PACKAGING LLC.. ; ATLAS AGI HOLDINGS LLC GRENNWICH ; DUBOIS LIMITED ; MEADWESTVACO CORPORATION ; MEADWESTVACO PACKAGING SYSTEMS LLC ; MIDCAP FINANCIAL TRUST ; RBS BUSINESS CAPITAL A DIVISION OF RBS ASSET FINAN ; RBS BUSINESS CAPITAL A DIVISION OF RBS ASSET FINANCE INC ; RBS INVOICE FINANCE LTD ; WELLS FARGO CAPITAL FINANCE LLC AGENT AS

Inventor(s) (std)**:** FREITAG KENNY ; GELARDI JOHN A ; JOHNSTON ROBERT ; KOSTYUN JAMES ; PHILIPPE JAMES ; PHILLIPE JAMES

Inventor(s): GELARDI JOHN ; GELARDI JOHN A MIDLOTHIAN ; KOSTYUN JAMES PITTSFIELD ; PHILIPPE JAMES SANFORD

Agent(s): CHINA PATENT AGENT HK LTD; CORINNA VOSSIUS IP GROUP PATENT U RECHTSANWALTSKANZLEI; COULSON ELIZABETH EVE; LISKA HORST ET AL; MCDERMOTT WILL AND EMERY LLP; MEADWESTVACO ALEXANDRA B URBAN ESQ CORP; MEADWESTVACO ATTN IP LEGAL DEPARTMENT CORP; MEADWESTVACO ATTN IVETTE REYES CORP; MICHAEL J POLLACK EDWARDS ANGELL PALMER AND

DODGE LLP; THOMAS 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 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 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 YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT484056 E	20101015	LSGT	+	granted / extensions (spc, cpc, pte)	
AT484056 E	20110415	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	Ref document number: 1777707 Country of Ref document: EP
AT484056 E	20261020	PEXP		Calculated Patent Term Expiry	
AT484373 E	20101015	LSGT	+	granted / extensions (spc, cpc, pte)	
AT484373 E	20110415	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	Ref document number: 1863626 Country of Ref document: EP
AT484373 E	20260313	PEXP		Calculated Patent Term Expiry	
DE602006017317 D1	20100909	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	OldParty: MeadWestvaco Corp., Glen Allen, Va., US PartyType: Owner
DE602006017317 D1	20110221	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	OldParty: MeadWestvaco Corp., Richmond, Va., US PartyType: Owner
DE602006017317 D1	20110428	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	Owner: DUBOIS LIMITED, CORBY, GB PartyType: owner
DE602006017317 D1	20110428		8328	CHANGE IN THE PERSON/NAME/ADDRESS OF THE AGENT	PartyType: representative Representative: DR. VOLKER VOSSIUS PATENTANWAELTE RECHTSANWAELTE P
DE602006017317 D1	20130708		R082	CHANGE OF REPRESENTATIVE	OldParty: Dr. Volker Vossius Patentanwälte Partnerschaftsgesellschaft, 81373 München, DE PartyType: Representative Representative: Corinna Vossius IP Group Patent- und Rechtsanwaltskanzlei, 80538 München, DE
DE602006017317 D1	20130721		R082	CHANGE OF REPRESENTATIVE	OldParty: Corinna Vossius IP Group Patent- und Rechtsanwaltskanzlei, 80538 München, DE PartyType: Representative Representative: PATRONUS IP Patent- & Rechtsanwälte Bernhard Ganahl, Jan Robert Naefe GbR, 81673 München, DE
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DE602006035478 D1	20200501	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
EP1777707 A1	20070425	LSPB	+	published / reissued	
EP1777707 A1	20070425		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1777707 A1	20070425		+AX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT	Country of Ref document: AL BA HR MK YU
EP1777707 A1	20071128	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20071012
EP1777707 A1	20071212	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20071115
EP1777707 A1	20080102	LSFE	+AKX	DESIGNATION FEES PAID	Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1777707 A1	20100623	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: MEADWESTVACO CORPORATION PartyType: owner
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EP1777707 B1	20101015	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP1777707 B1	20101110	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP1777707 B1	20101118		REF	CORRESPONDS TO:	Date of Ref document: 20101118 Kind code of Ref document: P Ref document number: 602006017317 Country of Ref document: DE
EP1777707 B1	20110209	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20101006 Ref country code: NL Ref legal event code: VDEP
EP1777707 B1	20261020	PEXP		Calculated Patent Term Expiry	
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EP1777707 B9	20110302		REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: 732E Text: REGISTERED BETWEEN 20110203 AND 20110209
EP1777707 B9	20110325	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	Effective date: 20101006 Ref country code: EP
EP1777707 B9	20110427	LSAS	RAP2	RIGHTS OF A PATENT TRANSFERRED	Owner: DUBOIS LIMITED PartyType: owner
EP1777707 B9	20110428	LSAS	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110221 OldParty: FORMER OWNER: MEADWESTVACO CORP., RICHMOND, VA., US Owner: DUBOIS LIMITED, GB PartyType: owner Ref country code: DE Ref document number: 602006017317 Ref legal event code: R081 Country of Ref document: DE
EP1777707 B9	20110429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP1777707 B9	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP1777707 B9	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	Lapsed date: 20101031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

				POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Country of Ref document: MC
EP1777707 B9	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110207 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP1777707 B9	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110206 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP1777707 B9	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP1777707 B9	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP1777707 B9	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110106 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP1777707 B9	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP1777707 B9	20110531	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP1777707 B9	20110603	LSAS	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: TP
EP1777707 B9	20110630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BE
EP1777707 B9	20110630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110107 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP1777707 B9	20110630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20101026 Year of fee payment: 5 Country of Ref document: ES
EP1777707 B9	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP1777707 B9	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110117 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: ES
EP1777707 B9	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP1777707 B9	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF

				POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP1777707 B9	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP1777707 B9	20110810	LSOP	-26	OPPOSITION FILED	Effective date: 20110630 Opponent: THOMSEN, SOENKE PartyType: opponent
EP1777707 B9	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP1777707 B9	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP1777707 B9	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP1777707 B9	20111006	LSOP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110630 Ref country code: DE Ref document number: 602006017317 Ref legal event code: R026 Country of Ref document: DE
EP1777707 B9	20111031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP1777707 B9	20111031		REG	REFERENCE TO A NATIONAL CODE	Ref country code: PL Ref legal event code: T3
EP1777707 B9	20111230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IT
EP1777707 B9	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PL
EP1777707 B9	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP1777707 B9	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110407 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HU
EP1777707 B9	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1777707 B9	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101006 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR
EP1777707 B9	20130228	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: PL Ref legal event code: LAPE

EP1777707 B9	20130624	LSAL	APBM	APPEAL REFERENCE RECORDED	Text: ORIGINAL CODE: EPIDOSNREFNO
EP1777707 B9	20130624	LSAL	APBP	DATE OF RECEIPT OF NOTICE OF APPEAL RECORDED	Text: ORIGINAL CODE: EPIDOSNNOA2O
EP1777707 B9	20130626	LSAL	APAH	APPEAL REFERENCE MODIFIED	Text: ORIGINAL CODE: EPIDOSCREFNO
EP1777707 B9	20130708		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006017317 Ref legal event code: R082 Representative: CORINNA VOSSIUS IP GROUP PATENT- UND RECHTSANW, DE Country of Ref document: DE
EP1777707 B9	20130708		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006017317 Ref legal event code: R082 Representative: PATRONUS IP PATENT- & RECHTSANWAELTE BERNHARD , DE Country of Ref document: DE
EP1777707 B9	20130721		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006017317 Ref legal event code: R082 Representative: PATRONUS IP PATENT- & RECHTSANWAELTE BERNHARD , DE Country of Ref document: DE
EP1777707 B9	20130721		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006017317 Ref legal event code: R082 Representative: CORINNA VOSSIUS IP GROUP PATENT- UND RECHTSANW, DE Country of Ref document: DE
EP1777707 B9	20130819		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006017317 Ref legal event code: R082 Representative: CORINNA VOSSIUS IP GROUP PATENT- UND RECHTSANW, DE Country of Ref document: DE
EP1777707 B9	20131106	LSAL	APAH	APPEAL REFERENCE MODIFIED	Text: ORIGINAL CODE: EPIDOSCREFNO
EP1777707 B9	20140113	LSAL	APBQ	DATE OF RECEIPT OF STATEMENT OF GROUNDS OF APPEAL RECORDED	Text: ORIGINAL CODE: EPIDOSNNOA3O
EP1777707 B9	20151019	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 10 Country of Ref document: FR
EP1777707 B9	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151002 Year of fee payment: 10 Country of Ref document: AT
EP1777707 B9	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151019 Year of fee payment: 10 Country of Ref document: FR
EP1777707 B9	20160913	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602006017317 Ref legal event code: R064 Country of Ref document: DE
EP1777707 B9	20160913	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602006017317 Ref legal event code: R103 Country of Ref document: DE
EP1777707 B9	20161011	LSAL	APBU	APPEAL PROCEDURE CLOSED	Text: ORIGINAL CODE: EPIDOSNNOA9O
EP1777707 B9	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161027 Year of fee payment: 11 Country of Ref document: DE
EP1777707 B9	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161027 Year of fee payment: 11 Country of Ref document: GB
EP1777707 B9	20170615	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20161020 Kind code of Ref document: T Ref country code: AT Ref document number: 484056 Ref legal event code: MM01 Country of Ref document: AT
EP1777707 B9	20170712	LSRV	-27W	PATENT REVOKED	Effective date: 20160913

EP1777707 B9	20170712	LSRV	-GBPR	GB: PATENT REVOKED UNDER ART. 102 OF THE EP CONVENTION DESIGNATING THE UK AS CONTRACTING STATE	Effective date: 20160913 Ref country code: EP
EP1777707 B9	20170728	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20170630 Ref country code: FR Ref legal event code: ST
EP1777707 B9	20171115	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20160913 Kind code of Ref document: T Ref country code: AT Ref document number: 484056 Ref legal event code: MA03 Country of Ref document: AT
EP1777707 B9	20171215	LSRE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20171110 Ref country code: FR Ref legal event code: D3
EP1863626 A1	20071212	LSPB	+	published / reissued	
EP1863626 A1	20071212	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20071004
EP1863626 A1	20071212		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1863626 A1	20080618		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP1863626 A1	20080709	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20080610
EP1863626 A1	20100421	LSRE	RTI1	TITLE (CORRECTION)	Text: METHOD AND MOULD FOR MAKING AN INJECTION MOULDED CONTAINER
EP1863626 A1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160331 Year of fee payment: 11 Country of Ref document: DE
EP1863626 B1	20101013	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1863626 B1	20101013		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1863626 B1	20101013	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP1863626 B1	20101015	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP1863626 B1	20101110	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP1863626 B1	20101125		REF	CORRESPONDS TO:	Date of Ref document: 20101125 Kind code of Ref document: P Ref document number: 602006017525 Country of Ref document: DE
EP1863626 B1	20110216	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20101013 Ref country code: NL Ref legal event code: VDEP
EP1863626 B1	20110325	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	Effective date: 20101013 Ref country code: EP
EP1863626 B1	20110429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP1863626 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP1863626 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP1863626 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI

				EPO]	
EP1863626 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110213 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP1863626 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110113 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP1863626 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110214 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP1863626 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP1863626 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP1863626 B1	20110531		REG	REFERENCE TO A NATIONAL CODE	Ref country code: PL Ref legal event code: T3
EP1863626 B1	20110630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110114 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP1863626 B1	20110630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BE
EP1863626 B1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP1863626 B1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP1863626 B1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110124 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: ES
EP1863626 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP1863626 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP1863626 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK

EP1863626 B1	20110921	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20110714
EP1863626 B1	20111031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110331 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: MC
EP1863626 B1	20111031	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP1863626 B1	20111110	LSRE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20110714 Ref country code: DE Ref document number: 602006017525 Ref legal event code: R097 Country of Ref document: DE
EP1863626 B1	20111230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IT
EP1863626 B1	20120104	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP1863626 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110331 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP1863626 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110313 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP1863626 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110331 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP1863626 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20110313 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP1863626 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP1863626 B1	20130628	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20130220 Year of fee payment: 8 Country of Ref document: AT
EP1863626 B1	20130708		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006017525 Ref legal event code: R082 Representative: CORINNA VOSSIUS IP GROUP PATENT- UND RECHTSANW, DE Country of Ref document: DE
EP1863626 B1	20130708		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006017525 Ref legal event code: R082 Representative: PATRONUS IP PATENT- & RECHTSANWAELTE BERNHARD , DE Country of Ref document: DE
EP1863626 B1	20130721		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006017525 Ref legal event code: R082 Representative: PATRONUS IP PATENT- & RECHTSANWAELTE BERNHARD , DE Country of Ref document: DE
EP1863626 B1	20130721		REG	REFERENCE TO A NATIONAL CODE	PartyType: representative Ref country code: DE Ref document number: 602006017525 Ref legal event code: R082 Representative: CORINNA VOSSIUS IP GROUP PATENT- UND RECHTSANW, DE Country of Ref document: DE
EP1863626 B1	20130819		REG	REFERENCE TO A	PartyType: representative

				NATIONAL CODE	Ref country code: DE Ref document number: 602006017525 Ref legal event code: R082 Representative: CORINNA VOSSIUS IP GROUP PATENT- UND RECHTSANW, DE Country of Ref document: DE
EP1863626 B1	20130930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR
EP1863626 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20101013 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: HU
EP1863626 B1	20141115	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20140313 Kind code of Ref document: T Ref country code: AT Ref document number: 484373 Ref legal event code: MM01 Country of Ref document: AT
EP1863626 B1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20140313 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: AT
EP1863626 B1	20160328	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 11
EP1863626 B1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20160328 Year of fee payment: 11 Country of Ref document: FR
EP1863626 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170327 Year of fee payment: 12 Country of Ref document: GB
EP1863626 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170224 Year of fee payment: 12 Country of Ref document: PL
EP1863626 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20170329 Year of fee payment: 12 Country of Ref document: DE
EP1863626 B1	20171229	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20171130 Ref country code: FR Ref legal event code: ST
EP1863626 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20170331 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FR
EP1863626 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180327 Year of fee payment: 13 Country of Ref document: GB
EP1863626 B1	20180531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180227 Year of fee payment: 13 Country of Ref document: PL
EP1863626 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20180328 Year of fee payment: 13 Country of Ref document: DE
EP1863626 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190221 Year of fee payment: 14 Country of Ref document: PL
EP1863626 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20190327 Year of fee payment: 14 Country of Ref document: DE
EP1863626 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO	Payment date: 20190404

				NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 14 Country of Ref document: GB
EP1863626 B1	20260313	PEXP		Calculated Patent Term Expiry	
EP1949377 A2	20080730	LSPB	+	published / reissued	
EP1949377 A2	20080730	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20080505
EP1949377 A2	20080730		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP1949377 A2	20090401	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20090302
EP1949377 A2	20100623	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: MEADWESTVACO CORPORATION PartyType: owner
EP1949377 A2	20110706	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: ATLAS AGI HOLDINGS, LLC PartyType: owner
EP1949377 A2	20110720	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: ATLAS AGI HOLDINGS, LLC PartyType: owner
EP1949377 A2	20120801		DAX	REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (DELETED)	
EP1949377 A2	20180502	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20130130
EP2256742 A2	20101201	LSPB	+	published / reissued	
EP2256742 A2	20101201	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20100902
EP2256742 A2	20101201		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 1777707 Country of Ref document: EP
EP2256742 A2	20101201		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP2256742 A2	20110119		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: GELARDI, JOHN A. PartyType: inventor
EP2256742 A2	20110119		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: KOSTYUN, JAMES PartyType: inventor
EP2256742 A2	20110119		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: PHILIPPE, JAMES PartyType: inventor
EP2256742 A3	20110413		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A3 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP2256742 A3	20110907	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: ATLAS AGI HOLDINGS, LLC PartyType: owner
EP2256742 A3	20120203		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1151622 Ref legal event code: DE Country of Ref document: HK
EP2256742 A3	20130619	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	Effective date: 20130522
EP2256742 A3	20180518	LSWD	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1151622 Ref legal event code: WD Country of Ref document: HK
EP2256742 A3	20181017	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	Effective date: 20180516
EP2256743 A2	20101201	LSPB	+	published / reissued	
EP2256743 A2	20101201	LSES	+17P	REQUEST FOR EXAMINATION FILED	Effective date: 20100902
EP2256743 A2	20101201		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 1777707 Country of Ref document: EP
EP2256743 A2	20101201		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A2 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

EP2256743 A2	20110119		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: GELARDI, JOHN A. PartyType: inventor
EP2256743 A2	20110119		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: KOSTYUN, JAMES PartyType: inventor
EP2256743 A2	20110119		RIN1	INFORMATION ON INVENTOR PROVIDED BEFORE GRANT (CORRECTED)	Inventor: PHILIPPE, JAMES PartyType: inventor
EP2256743 A2	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130704 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP2256743 A2	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP2256743 A2	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2256743 A2	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2256743 A2	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2256743 A2	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161027 Year of fee payment: 11 Country of Ref document: DE
EP2256743 A3	20110511		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: A3 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP2256743 A3	20110907	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	Owner: ATLAS AGI HOLDINGS, LLC PartyType: owner
EP2256743 A3	20120203		REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1151621 Ref legal event code: DE Country of Ref document: HK
EP2256743 B1	20130403	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2256743 B1	20130403		AC	DIVISIONAL APPLICATION: REFERENCE TO EARLIER APPLICATION	Kind code of Ref document: P Ref document number: 1777707 Country of Ref document: EP
EP2256743 B1	20130403		+AK	DESIGNATED CONTRACTING STATES	Kind code of Ref document: B1 Country of Ref document: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
EP2256743 B1	20130403	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: GB Ref legal event code: FG4D
EP2256743 B1	20130415	LSNP	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: EP
EP2256743 B1	20130415	LSNP	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130415 Kind code of Ref document: T Ref country code: AT Ref document number: 605155 Ref legal event code: REF Country of Ref document: AT
EP2256743 B1	20130508	LSGT	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: FG4D
EP2256743 B1	20130529	LSPB	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130529 Ref country code: DE Ref document number: 602006035478 Ref legal event code: R096 Country of Ref document: DE

EP2256743 B1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SI
EP2256743 B1	20130918	LSRV	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20130403 Ref country code: NL Ref legal event code: VDEP
EP2256743 B1	20130925	LSRV	REG	REFERENCE TO A NATIONAL CODE	Ref country code: LT Ref legal event code: MG4D
EP2256743 B1	20130930		REG	REFERENCE TO A NATIONAL CODE	Ref country code: PL Ref legal event code: T3
EP2256743 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130704 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: GR
EP2256743 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: NL
EP2256743 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130714 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: ES
EP2256743 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LT
EP2256743 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130805 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: PT
EP2256743 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SE
EP2256743 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: FI
EP2256743 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130803 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IS
EP2256743 B1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130703 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: BG
EP2256743 B1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CY
EP2256743 B1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: LV
EP2256743 B1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF

				[ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: CZ
EP2256743 B1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: DK
EP2256743 B1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: SK
EP2256743 B1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: EE
EP2256743 B1	20140131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20131028 Year of fee payment: 8 Country of Ref document: BE
EP2256743 B1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: RO
EP2256743 B1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: IT
EP2256743 B1	20140312	LSGT	+26N	NO OPPOSITION FILED	Effective date: 20140106
EP2256743 B1	20140417	LSRE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20140106 Ref country code: DE Ref document number: 602006035478 Ref legal event code: R097 Country of Ref document: DE
EP2256743 B1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: MC
EP2256743 B1	20140530	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: CH Ref legal event code: PL
EP2256743 B1	20140730	LSLE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: IE Ref legal event code: MM4A
EP2256743 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20131031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: CH
EP2256743 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20131031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LI
EP2256743 B1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20131020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: IE
EP2256743 B1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20130403 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT Country of Ref document: TR
EP2256743 B1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	Lapsed date: 20141031 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

				POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Country of Ref document: BE
EP2256743 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20061020 NotificationOfLapse: LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO Country of Ref document: HU
EP2256743 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20131020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: LU
EP2256743 B1	20151019	LSFE	REG	REFERENCE TO A NATIONAL CODE	Ref country code: FR Ref legal event code: PLFP Year of fee payment: 10 Country of Ref document: FR
EP2256743 B1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151019 Year of fee payment: 10 Country of Ref document: FR
EP2256743 B1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151002 Year of fee payment: 10 Country of Ref document: AT
EP2256743 B1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20151016 Year of fee payment: 10 Country of Ref document: PL
EP2256743 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20161027 Year of fee payment: 11 Country of Ref document: GB
EP2256743 B1	20170615	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20161020 Kind code of Ref document: T Ref country code: AT Ref document number: 605155 Ref legal event code: MM01 Country of Ref document: AT
EP2256743 B1	20170728	LSLE	REG	REFERENCE TO A NATIONAL CODE	Effective date: 20170630 Ref country code: FR Ref legal event code: ST
EP2256743 B1	20170731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20161102 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: FR
EP2256743 B1	20170831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20161020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: AT
EP2256743 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171027 Year of fee payment: 12 Country of Ref document: DE
EP2256743 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20171027 Year of fee payment: 12 Country of Ref document: GB
EP2256743 B1	20180430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20161020 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: PL
EP2256743 B1	20180518	LSWD	REG	REFERENCE TO A NATIONAL CODE	Ref country code: HK Ref document number: 1151621 Ref legal event code: WD Country of Ref document: HK
EP2256743 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Payment date: 20181029 Year of fee payment: 13 Country of Ref document: DE
EP2256743 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO	Payment date: 20181029

				NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	Year of fee payment: 13 Country of Ref document: GB
EP2256743 B1	20200501	LSDW	REG	REFERENCE TO A NATIONAL CODE	Ref country code: DE Ref document number: 602006035478 Ref legal event code: R119 Country of Ref document: DE
EP2256743 B1	20200731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	Lapsed date: 20200501 NotificationOfLapse: LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES Country of Ref document: DE
EP2256743 B1	20200902	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	Effective date: 20191020 Ref country code: EP
EP2256743 B1	20261020	PEXP		Calculated Patent Term Expiry	
GB200505004 A0	20070314	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
HK1151621 A1	20120203	LSPB	+	published / reissued	
HK1151622 A1	20120203	LSPB	+	published / reissued	
PL1777707 T3	20111031	LSGT	+	granted / extensions (spc, cpc, pte)	
PL1863626 T3	20110531	LSGT	+	granted / extensions (spc, cpc, pte)	
PL2256743 T3	20130930	LSGT	+	granted / extensions (spc, cpc, pte)	
US2007267305 AA	20070615	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:JOHNSTON, ROBERT;GELARDI, JOHN A.;KOSTYUN, JAMES;REEL/FRAME:019435/0885;SIGNING DATES FROM 20061110 TO 20070108 Owner: MEADWESTVACO CORPORATION, VIRGINIA PartyType: owner
US2007267305 AA	20071122	LSPB	+	published / reissued	
US2007267305 AA	20100426	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007267305 AA	20100426		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US2008011625 AA	20080117	LSPB	+	published / reissued	
US2008011625 AA	20100630	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US2008289980 AA	20081127	LSPB	+	published / reissued	
US2008289980 AA	20101105	LSAS	AS	ASSIGNMENT	Effective date: 20101104 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:DUBOIS LIMITED;REEL/FRAME:026271/0843 Owner: RBS INVOICE FINANCE LIMITED, ENGLAND PartyType: owner
US2008289980 AA	20101105	LSAS	AS	ASSIGNMENT	Effective date: 20101104 OldParty: SECURITY AGREEMENT;ASSIGNOR:DUBOIS LIMITED;REEL/FRAME:026271/0843 Owner: RBS INVOICE FINANCE LIMITED, ENGLAND PartyType: owner
US2008289980 AA	20101210	LSAS	AS	ASSIGNMENT	Effective date: 20101104 OldParty: SECURITY AGREEMENT;ASSIGNOR:DUBOIS LIMITED;REEL/FRAME:025641/0617 Owner: RBS BUSINESS CAPITAL, A DIVISION OF RBS ASSET FINA PartyType: owner
US2010320104 AA	20100722	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:GELARDI, JOHN;KOSTYUN, JAMES;FREITAG, KENNY;SIGNING DATES FROM 20061109 TO 20070208;REEL/FRAME:024727/0692 Owner: MEADWESTVACO CORPORATION, VIRGINIA PartyType: owner
US2010320104 AA	20101021	LSAS	AS	ASSIGNMENT	Effective date: 20100901 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:MEADWESTVACO CORPORATION;REEL/FRAME:025169/0433 Owner: ATLAS AGI HOLDINGS, LLC,

					CONNECTICUT PartyType: owner
US2010320104 AA	20101210	LSAS	AS	ASSIGNMENT	Effective date: 20101104 OldParty: SECURITY INTEREST;ASSIGNOR:ATLAS AGI HOLDINGS LLC;REEL/FRAME:025641/0594 Owner: RBS INVOICE FINANCE LIMITED, ENGLAND PartyType: owner
US2010320104 AA	20101210	LSAS	AS	ASSIGNMENT	Effective date: 20101104 OldParty: SECURITY AGREEMENT;ASSIGNOR:ATLAS AGI HOLDINGS LLC;REEL/FRAME:025689/0603 Owner: RBS BUSINESS CAPITAL, A DIVISION OF RBS ASSET FINA PartyType: owner
US2010320104 AA	20101223	LSPB	+	published / reissued	
US2010320104 AA	20120313	LSAS	AS	ASSIGNMENT	Effective date: 20111227 OldParty: RELEASE OF SECURITY INTEREST IN PATENTS;ASSIGNOR:RBS BUSINESS CAPITAL;REEL/FRAME:027853/0772 Owner: ATLAS AGI HOLDINGS LLC, CONNECTICUT PartyType: owner
US2010320104 AA	20120402	LSAS	AS	ASSIGNMENT	Effective date: 20120321 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:RBS INVOICE FINANCE LIMITED, AS SECURITY AGENT;REEL/FRAME:027973/0736 Owner: ATLAS AGI HOLDINGS LLC, CONNECTICUT PartyType: owner
US2010320104 AA	20120403	LSAS	AS	ASSIGNMENT	Effective date: 20120327 OldParty: SECURITY AGREEMENT;ASSIGNORS:ATLAS AGI HOLDINGS LLC;SHOREWOOD PACKAGING LLC;REEL/FRAME:027982/0824 Owner: WELLS FARGO CAPITAL FINANCE, LLC, AS AGENT, ILLINO PartyType: owner
US2010320104 AA	20120628	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010320104 AA	20120628		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US7757848 BB	20070702	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:GELARDI, JOHN A.;KOSTYUN, JAMES;FREITAG, KENNY;REEL/FRAME:019506/0041;SIGNING DATES FROM 20061109 TO 20070208 Owner: MEADWESTVACO CORPORATION, VIRGINIA PartyType: owner
US7757848 BB	20070702	LSAS	AS	ASSIGNMENT	OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:GELARDI, JOHN A.;KOSTYUN, JAMES;FREITAG, KENNY;SIGNING DATES FROM 20061109 TO 20070208;REEL/FRAME:019506/0041 Owner: MEADWESTVACO CORPORATION, VIRGINIA PartyType: owner
US7757848 BB	20100630	LSGT	PAT1	Patented Case	
US7757848 BB	20100720	LSGT	+	granted / extensions (spc, cpc, pte)	
US7757848 BB	20101021	LSAS	AS	ASSIGNMENT	Effective date: 20100901 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:MEADWESTVACO CORPORATION;REEL/FRAME:025169/0433 Owner: ATLAS AGI HOLDINGS, LLC, CONNECTICUT PartyType: owner
US7757848 BB	20101210	LSAS	AS	ASSIGNMENT	Effective date: 20101104 OldParty: SECURITY INTEREST;ASSIGNOR:ATLAS AGI HOLDINGS LLC;REEL/FRAME:025641/0594 Owner: RBS INVOICE FINANCE LIMITED, ENGLAND PartyType: owner
US7757848 BB	20101210	LSAS	AS	ASSIGNMENT	Effective date: 20101104 OldParty: SECURITY AGREEMENT;ASSIGNOR:ATLAS AGI HOLDINGS LLC;REEL/FRAME:025689/0603 Owner: RBS BUSINESS CAPITAL, A DIVISION OF RBS ASSET FINA PartyType: owner
US7757848 BB	20120313	LSAS	AS	ASSIGNMENT	Effective date: 20111227 OldParty: RELEASE OF SECURITY INTEREST IN PATENTS;ASSIGNOR:RBS BUSINESS CAPITAL;REEL/FRAME:027853/0772 Owner: ATLAS AGI HOLDINGS LLC, CONNECTICUT PartyType: owner

US7757848 BB	20120402	LSAS	AS	ASSIGNMENT	Effective date: 20120321 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:RBS INVOICE FINANCE LIMITED, AS SECURITY AGENT;REEL/FRAME:027973/0736 Owner: ATLAS AGI HOLDINGS LLC, CONNECTICUT PartyType: owner
US7757848 BB	20120403	LSAS	AS	ASSIGNMENT	Effective date: 20120327 OldParty: SECURITY AGREEMENT;ASSIGNORS:ATLAS AGI HOLDINGS LLC;SHOREWOOD PACKAGING LLC;REEL/FRAME:027982/0824 Owner: WELLS FARGO CAPITAL FINANCE, LLC, AS AGENT, ILLINO PartyType: owner
US7757848 BB	20140120	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US7757848 BB	20180122	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	Year of fee payment: 8
US7757848 BB	20181108	LSAS	AS	ASSIGNMENT	Effective date: 20181102 OldParty: SECURITY INTEREST;ASSIGNOR:AGI POLYMATRIX LLC;REEL/FRAME:047452/0539 Owner: MIDCAP FINANCIAL TRUST, MARYLAND PartyType: owner
US7757848 BB	20190226	LSAS	AS	ASSIGNMENT	Effective date: 20181003 OldParty: RELEASE BY SECURED PARTY;ASSIGNOR:WELLS FARGO CAPITAL FINANCE, LLC, AS AGENT;REEL/FRAME:048446/0845 Owner: ATLAS AGI HOLDINGS LLC AND AGI-SHOREWOOD GROUP US, PartyType: owner
US7757848 BB	20270629	PEXP		Calculated Patent Term Expiry (PTA 252 days)	
US7875222 BB	20080806	LSAS	AS	ASSIGNMENT	Effective date: 20070108 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:JOHNSTON, ROBERT;REEL/FRAME:021385/0410 Owner: DUBOIS LIMITED, UNITED KINGDOM PartyType: owner
US7875222 BB	20110125	LSGT	+	granted / extensions (spc, cpc, pte)	
US7875222 BB	20140905		REMI	MAINTENANCE FEE REMINDER MAILED	
US7875222 BB	20150125	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7875222 BB	20150223	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7875222 BB	20150223	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7875222 BB	20150317	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20150125
US7875222 BB	20270702	PEXP		Calculated Patent Term Expiry (PTA 476 days)	
WO06095202 A1	20060914	LSPB	+	published / reissued	
WO06095202 A1	20061025		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO06095202 A1	20070912	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO06095202 A1	20071004	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2006726389 Country of Ref document: EP
WO06095202 A1	20071011	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: RU
WO06095202 A1	20071011	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	Text: RU
WO06095202 A1	20071212	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	Ref document number: 2006726389 Country of Ref document: EP
WO06095202 A1	20080806	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 10590981 Country of Ref document: US
WO07047797 A2	20070426	LSPB	+	published / reissued	

WO07047797 A2	20070725		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO07047797 A3	20080422	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO07047797 A3	20080505	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	Ref document number: 2006826230 Country of Ref document: EP
WO07047801 A1	20070426	LSPB	+	published / reissued	
WO07047801 A1	20070725		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO07047801 A1	20080422	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO07047801 A1	20081119	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A1 Ref document number: 06826238 Country of Ref document: EP

95) Family number: 52816818 (IN01963DE2011 A)

Title: A TAMPER PROOF **SECURITY** **CLOSURE** **DEVICE**

Abstract: A tamper proof **security** **closure** **device** A tamper proof **security** **closure** **device** for bottles and bottle like **containers** comprising a body, a neck (5) with **opening** mouth (22) and engagement assembly on its outer surface wherein **security** **closure** **device** (1) comprises an outer cylindrical shell (11) consisting of a cylindrical outer top (31) and a cylindrical sleeve (41) connected together with a breakable connecting line (3); and an inner top (21). The inner surface of said cylindrical sleeve (41) comprises tongue assemblies (401) and gliding ball sets (403) for **locking** the **device** on the neck (5) of the **container**. The number of tongue assemblies (401) and gliding ball set (403) are preferably four in number.

Classifications:

International (IPC 8-9): B03C

Family:

Publication number	Publication date	Application number	Application date
IN01963DE2011 A	20130118	IN2011DE01963	20110713

Probable Assignee:	KSHITIJ JAIN
Assignee(s):	KSHITIJ JAIN
Inventor(s):	KSHITIJ JAIN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
IN01963DE2011 A	20130118	LSPB	+	published / reissued	

96) Family number: 67350085 (IN201621014420 A)

Title: AIR TIGHT LID WITH HOLD-DOWN SPRING **DEVICE** AND **TAMPER-EVIDENT** ELEMENT

Abstract: A **closure** for a pharmaceutical product **container**, the **closure** comprises: a flat lid of the **closure**; a peripheral wall depending from the edge of said flat lid; a chamber for storing desiccant such as silica gel, also depending from said flat lid; a thin profiled web depending from the flat lid and resting on the product **contained** in the **container** for holding the same in place within the **container**; a circular seal configured to make the contents between the depending peripheral wall and the desiccant chamber; and a **tamper-evident** ring; wherein the **tamper-evident** ring includes a circular sleeve depending from said peripheral wall and a thin ring attached to the sleeve via a plurality of frangible bridges provided at the upper edge of the sleeve, wherein the inner surface of the thin ring include two pairs of twin narrow and broad projections each configured on the inner surface of the circular sleeve.

Classifications:
International (IPC 8-9): B65D41/00

Family:

Publication number	Publication date	Application number	Application date
IN201621014420 A	20171027	IN201621014420	20160426

Priority:
IN201621014420 20160426

Probable Assignee: PAREKHPLAST INDIA LTD
Assignee(s): PAREKHPLAST INDIA LTD
Inventor(s): POOJA DAHANUKAR

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
IN201621014420 A	20171027	LSPB	+	published / reissued	

97) Family number: 53032379 (IN02271MU2011 A)

Title: A TAMPER INDICATIVE LIFTABLE **SECURITY** **DEVICE**

Abstract: A tamper indicative liftable **security** **device** relates to **device** which may be used as **security** **closure** or lifting **device** or external handle which indicates the permanent **tamper evident** message like tampered or void once the sealed **container** is **opened**.

Classifications:

International (IPC 8-9): B65D90/00

Family:

Publication number	Publication date	Application number	Application date
IN02271MU2011 A	20130215	IN2011MU02271	20110811

Probable Assignee: VORA NIRANJAN C

Assignee(s): VORA NIRANJAN C

Inventor(s): VORA NIRANJAN C

Legal status (INPADOC)

View legal status timeline

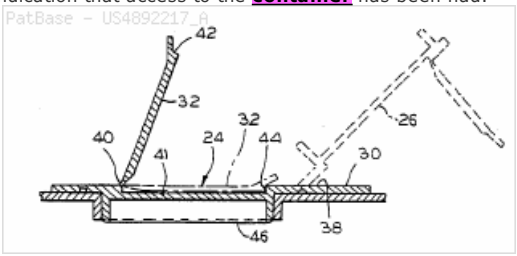
Patent	Date recorded	Event group	Code	Event	Details
IN02271MU2011 A	20130215	LSPB	+	published / reissued	

98) Family number: 3296402 (US4892217 A)

Title: **Tamper evident** dispensing **closure**

Abstract: A **closure** is provided for selectively closing an **opening** of a **container**, including a base element arranged to be affixed to a **container** adjacent an **opening** therein. In one embodiment, the **closure** is provided with **tamper-evident** film fixed to the base element, and a control element is pivotally movable relative to the base element between **open** and closed position. When the base element is affixed to the **container**, the **tamper-evident** film obstructs the **container** **opening**. When the control element pivots to the **open** position, the **tamper-evident** film is visible, and can be punctured or otherwise removed. According to another embodiment of the invention, a **closure** is provided for a **container** having a **tamper-evident** film **secured** thereto overlying the **opening** in a **container**. The **closure** includes a control element having a puncturing element which is operable upon being pivoted in an inward direction to puncture the **tamper-evident** film to provide access to the **container** contents, and to provide an indication that access to the **container** has been had.

Classifications:
International (IPC 8-9): B65D39/00 B65D39/16 B65D51/18 B65D51/20 B65D51/22
International (IPC 1-7): B65D51/22
CPC: B65D2251/0018 B65D2251/0025 B65D2251/0093 B65D39/16 B65D51/20 B65D51/222
US: 220/153 220/258 220/258.3 220/258.4 220/266 220/269 220/277 220/278 220/335 220/339 220/541 222/153.06 222/541.9



Family:

Publication number	Publication date	Application number	Application date
US4892217 A	19900109	US19880217477	19880711
US4988012 A	19910129	US19890385697	19890727

Priority:
US19880217477 19880711 US19890385697 19890727

Probable Assignee: SHASTAL EUGENE D
Assignee(s): (std): SHASTAL E D ; SHASTAL EUGENE D
Inventor(s): (std): SHASTAL E D ; SHASTAL EUGENE D

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4892217 A	19900109	LSGT	+	granted / extensions (spc, cpc, pte)	
US4892217 A	19930603	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US4892217 A	19970709	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 8
US4892217 A	20010731		REMI	MAINTENANCE FEE REMINDER MAILED	
US4892217 A	20020109	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4892217 A	20020213	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4892217 A	20020213	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US4892217 A	20020312	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20020109
US4892217 A	20080711	PEXP		Calculated Patent Term Expiry	
US4988012 A	19901128	LSGT	PAT1	Patented Case	
US4988012 A	19910129	LSGT	+	granted / extensions (spc, cpc, pte)	
US4988012 A	19940718	LSFE	+FPAY	FEE PAYMENT	Year of fee payment: 4
US4988012 A	19980825		REMI	MAINTENANCE FEE REMINDER MAILED	
US4988012 A	19990131	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4988012 A	19990413	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 19990129
US4988012 A	20090727	PEXP		Calculated Patent Term Expiry	
US4988012 A	20180129	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	

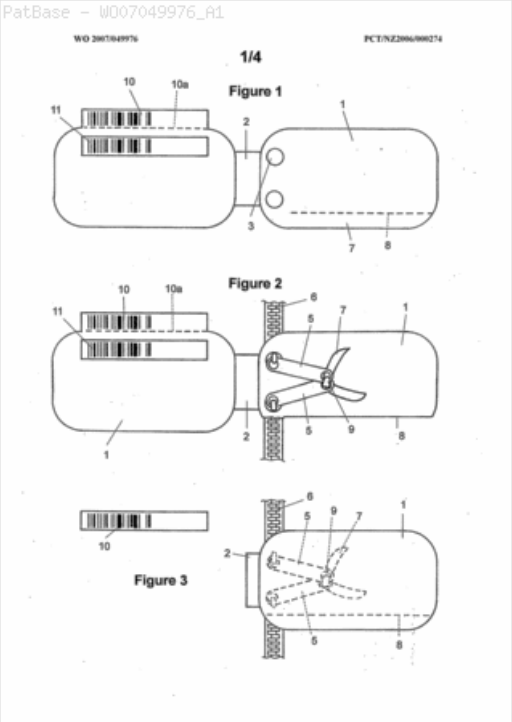
US4988012 A	20180129	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

99) Family number: 34447569 (WO07049976 A1)

Title: **TAMPER EVIDENT** LUGGAGE TAG

Abstract: A **tamper evident** tag adapted to be applied to the tabs of the **closure** members of a zip type fastener. The tag has two panels with one of the panels having a slot or slots through which the tabs of the **closure** member can be passed after the fastener has been closed. The panels are formed so they can be folded to enable a face, of one panel to lie against and be adhered to a face of the second panel to imprison the tabs of the **closure** members between the adhered faces.

Classifications:
International (IPC 8-9): G09F3/00 G09F3/10
CPC: G09F3/0292



Family:

Publication number	Publication date	Application number	Application date
WO07049976 A1	20070503	WO2006NZ00274	20061026

Priority:
NZ20050541388 20051027

Probable Assignee: BRYDEN ROBERT GORDON

Assignee(s): (std): BRYDEN ROBERT GORDON

Inventor(s): (std): BRYDEN ROBERT GORDON

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 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 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

Legal status (INPADOC)

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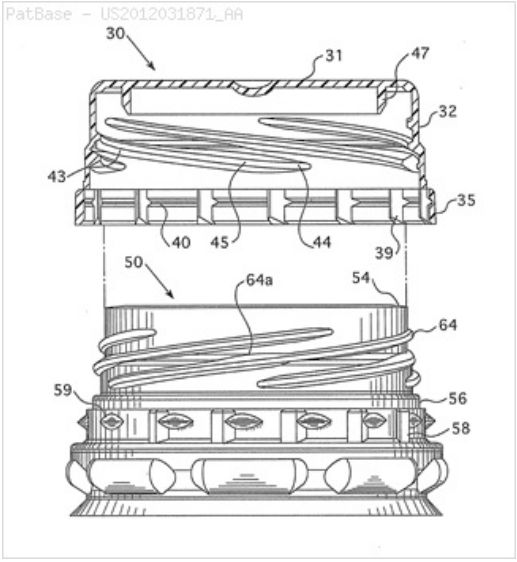
Patent	Date recorded	Event group	Code	Event	Details
WO07049976 A1	20070503	LSPB	+	published / reissued	
WO07049976 A1	20070725		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	
WO07049976 A1	20080429	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO07049976 A1	20081203	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A1 Ref document number: 06812849 Country of Ref document: EP

100) Family number: 50613583 (US2012031871 AA)

Title: STEP TWIST ZIPPED VISUAL **TAMPER-EVIDENT** CAP AND NECK FINISH

Abstract: A **tamper-evident** cap is disclosed having a circular **closure** member, a cylindrical annular wall depending generally from the periphery of the **closure** member terminating with a base and having a plurality of serrations, and a **tamper-evident** band circumferentially positioned around the base having teeth and attached to a portion of the base. The **tamper-evident** band may be mounted to the base by at least one of the teeth or attached by at least one of the serrations extending below the base. The interior and/or exterior of the cylindrical wall may be stepped. The **tamper-evident** band may have a groove between the teeth for retaining the **tamper-evident** band on a neck finish. A neck finish having at least one set of teeth and optional raised portions for **securing** the **tamper-evident** band in place is also disclosed. The neck finish may be stepped to correspond with a cap having a cylindrical wall with a stepped interior. A cap and neck finish combination for a **container** is also disclosed.

Classifications:
International (IPC 8-9): B65B7/28 B65D1/02 B65D41/34 B65D41/36
CPC: B65D1/023 B65D1/0246 B65D2401/30 B65D41/3409 B65D41/3447
US: 1/1 215/252 215/252S 215/44 215/44P



Family:

Publication number	Publication date	Application number	Application date
US2012031871 AA	20120209	US20110198019	20110804
US2015191280 AA	20150709	US20140582574	20141224
US9181001 BB	20151110	US20140582574	20141224
WO12018994 A2	20120209	WO2011US46566	20110804
WO12018994 A3	20120419	WO2011US46566	20110804

Priority:

US20100370656P 20100804 US20100414680P 20101117 US20110198019 20110804 US20140582574 20141224

Probable Assignee: MOLINARO LUCA

Assignee(s): (std): CRISCI ROBERT E ; MOLINARO LUCA ; OMEGA CAP SOLUTIONS LLC ; OMEGA CAP SOULTIONS LLC

Assignee(s): ROBERT E CRISCI TRUSTEE OF ROBERT E CRISCI REVOCABLE TRUST AGREEMENT DATED OCTOBER 8 1998 AMENDED AS

Inventor(s): (std): CRISCI ROBERT E ; MOLINARO LUCA

Agent(s): ALAN G; PIETRAGALLO GORDON ALFANO BOSICK AND RASPANTI LLP; ROTHWELL CHRISTY G 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 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 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)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
US2012031871 AA	20110921	LSAS	AS	ASSIGNMENT	Effective date: 20110909 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MOLINARO, LUCA;CRISCI, ROBERT E.;REEL/FRAME:026940/0625 Owner: OMEGA CAP SOLUTIONS LLC, PENNSYLVANIA PartyType: owner
US2012031871 AA	20120209	LSPB	+	published / reissued	
US2012031871 AA	20150306	LSWD	ABD3	Abandoned -- Failure to Respond to an Office Action	
US2012031871 AA	20150306		-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	Text: ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION

US2015191280 AA	20150709	LSPB	+	published / reissued	
US2015191280 AA	20151021	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	Text: PATENTED CASE
US9181001 BB	20141224	LSAS	AS	ASSIGNMENT	Effective date: 20110909 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MOLINARO, LUCA;CRISCI, ROBERT E.;REEL/FRAME:034583/0953 Owner: OMEGA CAP SOLUTIONS LLC, PENNSYLVANIA PartyType: owner
US9181001 BB	20151021	LSGT	PAT1	Patented Case	
US9181001 BB	20151110	LSGT	+	granted / extensions (spc, cpc, pte)	
US9181001 BB	20180615	LSAS	AS	ASSIGNMENT	Effective date: 20180613 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:OMEGA CAP SOLUTIONS LLC;REEL/FRAME:046383/0876 Owner: ROBERT E. CRISCI, TRUSTEE OF THE ROBERT E. CRISCI PartyType: owner
US9181001 BB	20180615	LSAS	AS	ASSIGNMENT	Effective date: 20180613 OldParty: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:OMEGA CAP SOLUTIONS LLC;REEL/FRAME:046383/0876 Owner: MOLINARO, LUCA, PENNSYLVANIA PartyType: owner
US9181001 BB	20190701	LSFE	FEPP	FEE PAYMENT PROCEDURE	Text: MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US9181001 BB	20191216	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	Text: PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US9181001 BB	20191216	LSLE	PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US9181001 BB	20191216	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	Text: PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US9181001 BB	20200107	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	Effective date: 20191110
US9181001 BB	20310804	PEXP		Calculated Patent Term Expiry	
WO12018994 A2	20120209	LSPB	+	published / reissued	
WO12018994 A2	20120328		121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION	Kind code of Ref document: A2 Ref document number: 11743927 Country of Ref document: EP
WO12018994 A3	20130204	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	Ref country code: DE
WO12018994 A3	20130828	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	Kind code of Ref document: A2 Ref document number: 11743927 Country of Ref document: EP