

Search query (17): PN=(US2009289027 or WO09098347 or US2005115915 or WO07091173 or EA013149 or WO08110917 or WO13113435 OR WO13068750 OR US6454126 OR US2004129729 OR US2005115915 OR WO04011347 OR US2009289027 OR US2011259844 OR WO09141581 OR CA2618337)

Results: 14

# Search history

Search INV=(DAVID TORRENT ORTEGA ) (Results 10)

1:

Search INV=(DAVID TORRENT ORTEGA) (Results 10)

2:

Search fn=(47835234 or 54529995 or 54529995 or 58380349 or 57259826 or 57259826 or 56589913 or 56589913 or 42677449 or 41162721 or 35080503 or 30688031 or 57259826 or 42938277 or 36084992 or 50918532 or 56260499 or 42938277 or 50918532 or 36084992 or 56260499 or 42164030 or 47645988 or 56589913 or 30688031 or 9458082 or 9458082 or 9123205 or 13261905 or 28622170 or 17203364 or 9789206 or 17738398 or 30910430 or 1942986 or 23330088 or 23521644 or 10194595 or 23521644 or 33036408 or 3877203 or 16958107 or 5043247 or 11905282 or 29635897 or 28832023 or 30169270 or 11261221 or 29437310 or 13555375 or 15515700 or 23521644) (Results 39)

Search fn=(63985778 or 56197623 or 42030561 or 12864595 or 20659475 or 28343964 or 43995494 or 36084992 or 38530156 or 38530156 or 18913565 or 18918419 or 18918419 or 23521644 or 33602755 or 30688031 or 36084994 or 36084994 or 36084992 or 4417134 or 10749442 or 15515700 or 42938277 or 15515700 or 24121621 or 28343964 or 31959217 or 33602755 or 36084992) (Results 21)

Search fn=(54121005 or 52391599 or 53576574 or 53485516 or 53485516 or 50491237 or 50491237 or 50918532 or 58189684 or 53485516 or 54121005 or 50615006 or 50918532 or 56589913 or 50918532 or 50491237 or 50615006 or 31959217 or 53485516 or 50491237 or 50615006 or 54121005 or 50918532 or 55705995 or 54110480 or 54110480 or 58189684 or 30143073 or 46211149 or 23580583 or 17292752 or 20943567 or 2095017 or 5544431 or 2286585 or 2109240 or 7878012 or 45547231 or 15003872 or 17738935 or 9997744 or 11831732 or 13330496 or 21772678 or 15496955 or 27992900 or 30260617 or 31959217 or 32557882 or 17354204 or 3785946 or 17292752 or 100013 or 1241395 or 19208608 or 2050545 or 15336456 or 33499507 or 18666325 or 2802146 or 6554739 or 7186444 or 15142595 or 28184075 or 28676444 or 15579142 or 28343964 or 28343964 or 32218808 or 33984385 or 32218808 or 12212581 or 13709311 or 28706465 or 19999587 or 30116314 or 30281448 or 30736149 or 23521644 or 28335042 or 32254577 or 32564626 or 32658434 or 32813734 or 30260617 or 32218808 or 32572222 or 33105365 or 30688031 or 36084994 or 42938277 or 22253278 or 25381342 or 844644 or 853521 or 30985334 or 967969 or 751408 or 1081782 or 1212444 or 1520961 or 1543206 or 5085986 or 8464175 or 4823217 or 17453203 or 5194985 or 5402068 or 3311202 or 2784402 or 22504724 or 3514412 or 3520677 or 7878012 or 11638983 or 20442132 or 10501725 or 13261905 or 20232798 or 10371811 or 10749442 or 20286940 or 30263717 or 12415625 or 15632927 or 28139749 or 28184075 or 28257669 or 28246601 or 28224905 or 29169408 or 30257185 or 15515700 or 23967352 or 32179094 or 32507117 or 29371490 or 29448508 or 28676444 or 29755655 or 23967352 or 15515700 or 23194049 or 28086980 or 28090647 or 24121621 or 31731050 or 31959217 or 32218808 or 32557881 or 32557882 or 32572222 or 32564626 or 33602755 or 33602755 or 33105365 or 41035581 or 10497574 or 29782388) (Results 126)

Search PN=(US2009289027 or WO09098347 or US2005115915 or WO2015001084) (Results 4)

6:

Search CLOSURE AND DEVICE AND BOTTLES AND EVIDENCE AND FIRST OPENING (Results 8)

7:

Search IPC=(B65D47/12) AND 5 (Results 3)

8:

Search TAMPER-EVIDENT AND CLOSURE (Results 1066)

9:

Search IPC=(B65D47/12) AND 9 (Results 24)

10:

Search PN=(US2009289027 or WO09098347 or US2005115915 or WO07091173 or EA013149 or WO08110917 or WO13113435 OR WO13068750) (Results 8)

Search fn=(47835234 or 54529995 or 54529995 or 58380349 or 57259826 or 57259826 or 56589913 or 56589913 or 42677449 or 41162721 or 35080503 or 30688031 or 57259826 or 42938277 or 36084992 or 50918532 or 56260499 or 42938277 or 50918532 or 36084992 or 56260499 or 42164030 or 47645988 or 56589913 or 30688031 or 9458082 or 9458082 or 9123205 or 13261905 or 28622170 or 17203364 or 9789206 or 17738398 or 30910430 or 1942986 or 23330088 or 23521644 or 10194595 or 23521644 or 33036408 or 3877203 or 16958107 or 5043247 or 11905282 or 29635897 or 28832023 or 30169270 or 11261221 or 29437310 or 13555375 or 15515700 or 23521644) (Results 39)

Search fn=(63985778 or 56197623 or 42030561 or 12864595 or 20659475 or 28343964 or 43995494 or 36084992 or 38530156 or 38530156 or 18913565 or 18918419 or 18918419 or 23521644 or 33602755 or 30688031 or 36084994 or 36084994 or 36084992 or 4417134 or 10749442 or 15515700 or 42938277 or 15515700 or 24121621 or 28343964 or 31959217 or 33602755 or 36084992) (Results 21)

Search fn=(63199624 or 43504328 or 36084992) (Results 3)

14:

Search fn=(58189684 or 58189684 or 63199624) (Results 2)

15:

Search [SP]: 1. a tamper-evident closure for a container, the closure comprising: (a) a first portion, said first portion further comprising: (i) an inner part and (ii) an outer part (b) a second portion, wherein said outer part is movable relative to said inner part from a first position wherein at least part of said first and said second portions are adjacent each other to a second position wherein there is a gap therebetween and (c) locking means, within said first portion, for irreversibly locking said closure in said second position, upon first opening, so that said gap cannot be closed, and wherein said outer part includes a top plate and at least part of said locking means is carried on said first top plate. 2. a tamper-evident closure as claimed in claim 1, wherein: said inner part includes a second top plate and part of said locking means is carried on said second top plate. 3. a tamper-evident closure as claimed in claim 1, wherein: said locking means further comprises a longitudinal ratchet arrangement. 4. a tamper-evident closure as claimed in claim 1, wherein: said second portion is adapted to be connected to said container, and said first portion comprises a cap. 5. a tamper-evident closure as claimed in claim 1, wherein: said closure further comprises a non-return fitment. 6. a closure according claim 1, wherein: said first portion is adapted to engage an in-bore fitment associated with said container. 7. a tamper-evident closure according to claim 1, wherein: said closure further comprises blocking means for preventing said inner part from moving relative to said second portion until said inner part has reached said second position. 8. a tamper-evident closure according to claim 1, wherein: said gap is unobstructed. 9. a tamper-evident closure according to claim 1, wherein: said second portion is permanently fixed in a position on said container. 10. a tamper-evident closure according to claim 1, wherein: said first portion further comprises a lateral ratchet arrangement for locking said inner and said outer parts in said second position. 11. a tamper-evident closure according to claim 10, wherein: said first portion further comprises a set of engagement formations and said lateral ratchet arrangement is located above said set of engagement formations. 12. a tamper-evident closure according to claim 1, wherein: said gap is formed at the respective adjacent peripheries of said first portion and said second portion. 13. a tamper-evident closure according to claim 1, wherein: said inner part includes a part which extends beyond said outer part towards said second portion in said second position, and wherein the part is positioned so as to be visible through said gap. 14. a tamper-evident closure according to claim 1, wherein: said closure includes a metal shell. 15. a tamper-evident closure according to claim 14, wherein: said shell is associated with said first and said second portions and in which said gap is formed within said shell. 16. a tamper-evident closure for a container, said closure comprising: (a) a first portion, said first portion further comprising: a cap, said cap comprising: an inner part and an outer part, said outer part further comprising a first top plate (b) a second portion, wherein said outer part is movable relative to said inner part from a first position in which at least part of said first and second portions are adjacent each other to a second position in which there is a gap therebetween, and wherein said second portion is adapted to be connected to said container and (c) locking means, within said first portion, for irreversibly locking said closure in said second position, upon first opening, so that said gap cannot be closed, said locking means further comprising a longitudinal ratchet arrangement, wherein at least part of said locking means is carried on said first top plate. (Results 154)

Search PN=(US2009289027 or WO09098347 or US2005115915 or WO07091173 or EA013149 or WO08110917 or WO13113435 OR WO13068750

17: OR US6454126 OR US2004129729 OR US2005115915 OR WO04011347 OR US2009289027 OR US2011259844 OR WO09141581 OR CA2618337) (Results 14)

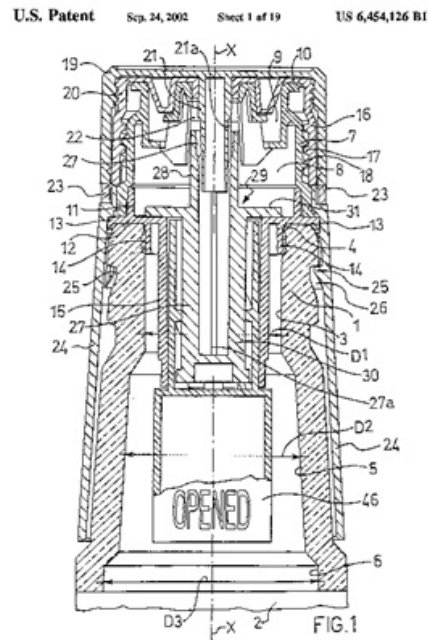
**Abstract:** Source: US6454126B An anti-fraud closure device for providing evidence of the initial opening of a container for liquids having a pouring body, a connecting element, a mixing element for connecting the pouring body to the neck of the container, a removable cap and an outer cap disposed over and housing a cap. The device further includes a sleeve, a tubular element inserted in the sleeve and connected thereto for partial angular movement and for axial movement between a first and a second position and an element for indicating that the initial opening of the container has taken place.

**International (IPC 8-9):** B65D41/34 B65D47/12 B65D47/24  
B65D49/00 B65D49/04 B65D55/02 (Advanced/Invention);  
B65D55/02 (Advanced/Non-invention)

**International (IPC 1-7):** B65D49/00 B65D55/02 B67D5/06  
**CPC:** B65D41/3447 B65D47/123 B65D47/246 B65D49/00 B65D49/04  
 B65D55/026

**European:** B65D41/34D1 B65D47/12B1 B65D47/24C1 B65D49/00  
B65D49/04 B65D55/02G

PatBase - US6454126\_BA



| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT232176 E         | 20030215         | AT19990938286T     | 19990719         |
| AU199952846 A1     | 20000221         | AU19990052846      | 19990719         |
| AU199952846 A5     | 20000221         | AU19990052846      | 19990719         |
| CN1221443 C        | 20051005         | CN19998009244      | 19990719         |
| CN1318027 A        | 20011017         | CN19998009244      | 19990719         |
| CO4950581 A1       | 20000901         | CO19990047642      | 19990728         |
| DE69905254 D1      | 20030313         | DE19996005254      | 19990719         |
| EP0985607 A1       | 20000315         | EP19980830457      | 19980728         |
| EP1102710 A1       | 20010530         | EP19990938286      | 19990719         |
| EP1102710 B1       | 20030205         | EP19990938286      | 19990719         |
| ES2188209 T3       | 20030616         | ES19990938286T     | 19990719         |
| MXPA01000996 A1    | 20020424         | MX2001PA00996      | 19990719         |
| PL197488 B1        | 20080430         | PL19990345694      | 19990719         |
| PL345694 A1        | 20020102         | PL19990345694      | 19990719         |
| RU2001105531 A     | 20030110         | RU20010105531      | 19990719         |
| RU2201385 C2       | 20030327         | RU20010105531      | 19990719         |
| US6454126 BA       | 20020924         | US20010744738      | 20010402         |
| WO0006461 A1       | 20000210         | WO1999EP05127      | 19990719         |

EP19980830457 19980728      EP19990938286 19990719      WO1999EP05127 19990719

**Assignee(s):** (std): BATTEGAZZORE PIERO ; GUALA CLOSURES S P A ; GUALA CLOSURES SPA ; GUALA KLOUZHURS S P A ; GUALA SPA

**Inventor(s):** (std): PIERO BATTEGAZZORE ; BATTEGAZZORE PIERO ; BATTEGADZORE P ERO

**Agent(s):** ERNESTO CAVELIER

**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 IN 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

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| Patent         | Date recorded | Event group | Code  | Event                                                                                      | Details                                                                                                             |
|----------------|---------------|-------------|-------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| AT232176 E     | 20030215      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                       |                                                                                                                     |
| AT232176 E     | 20030815      | LSLE        | -RER  | CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES                            |                                                                                                                     |
| AU199952846 A1 | 20000221      | LSPB        | +     | published / reissued                                                                       |                                                                                                                     |
| AU199952846 A1 | 20010426      | LSLE        | -MK6  | APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE |                                                                                                                     |
| AU199952846 A5 | 20000221      | LSPB        | +     | published / reissued                                                                       |                                                                                                                     |
| CN1221443 C    | 20051005      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                       |                                                                                                                     |
| CN1221443 C    | 20011017      | LSPB        | +C06  | PUBLICATION                                                                                |                                                                                                                     |
| CN1221443 C    | 20051005      | LSGT        | +C14  | GRANT OF PATENT OR UTILITY MODEL                                                           |                                                                                                                     |
| CN1221443 C    | 20070124      | LSAS        | C56   | CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE                                              |                                                                                                                     |
| CN1221443 C    | 20070124      | LSAS        | C56   | CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE                                              | OWNER NAME : GUALA CLOSURES CO., LTD.<br>DESCRIPTION : FORMER NAME OR ADDRESS: GUALA CLOSURES S.P.A.                |
| CN1221443 C    | 20080125      | LSGT        | REG   | REFERENCE TO A NATIONAL CODE                                                               | REF COUNTRY CODE : HK<br>REF LEGAL EVENT CODE : GR<br>REF DOCUMENT NUMBER : 1075010<br>COUNTRY OF REF DOCUMENT : HK |
| CN1221443 C    | 20140212      | LSAS        | ASS   | SUCCESSION OR ASSIGNMENT OF PATENT RIGHT                                                   | OWNER NAME : LUNA CO., LTD.<br>DESCRIPTION : FORMER OWNER: GUALA CLOSURES SPA<br>EFFECTIVE DATE : 20140116          |
| CN1221443 C    | 20140212      | LSAS        | ASS   | SUCCESSION OR ASSIGNMENT OF PATENT RIGHT                                                   | OWNER NAME : SUOLUO CO., LTD.<br>DESCRIPTION : FORMER OWNER: GUALA CLOSURES SPA<br>EFFECTIVE DATE : 20140116        |
| CN1221443 C    | 20140212      | LSAS        | C41   | TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL                            |                                                                                                                     |
| CN1221443 C    | 20140212      | LSAS        | C56   | CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE                                              |                                                                                                                     |
| CN1221443 C    | 20140212      | LSAS        | C56   | CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE                                              | OWNER NAME : GUALA CLOSURES SPA<br>DESCRIPTION : FORMER NAME: SUOLUO CO., LTD.                                      |
| CN1221443 C    | 20140212      | LSAS        | C56   | CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE                                              | OWNER NAME : GUALA CLOSURES SPA<br>DESCRIPTION : FORMER NAME: LUNA CO., LTD.                                        |
| CN1318027 A    | 20011017      | LSPB        | +     | published / reissued                                                                       |                                                                                                                     |
| CO4950581 A1   | 20000901      | LSPB        | +     | published / reissued                                                                       |                                                                                                                     |
| DE69905254 D1  | 20031002      | LSWD        | -8332 | NO LEGAL EFFECT FOR DE                                                                     |                                                                                                                     |
| EP0985607 A1   | 20000315      | LSPB        | +     | published / reissued                                                                       |                                                                                                                     |
| EP0985607 A1   | 20000614      | LSLI        | 111Z  | REGISTERING OF LICENCES                                                                    | DESCRIPTION : 20000315 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU                                                 |

|              |          |      |       |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|----------|------|-------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | OR OTHER RIGHTS                                                                       | MC NL PT SE * 20000315 AT BE CH<br>CY DE DK ES FI FR GB GR IE IT LI LU<br>MC NL PT SE * 20000315 AT BE CH<br>CY DE DK ES FI FR GB GR IE IT LI LU<br>MC NL PT SE * 20000315 AT BE CH<br>CY DE DK ES FI FR GB GR IE IT LI LU<br>MC NL PT SE * 20000315 AT BE CH<br>CY DE DK ES FI FR GB GR IE IT LI LU<br>MC NL PT SE * 20000315 AT BE CH<br>CY DE DK ES FI FR GB GR IE IT LI LU<br>MC NL PT SE * 20000315 AT BE CH<br>CY DE DK ES FI FR GB GR IE IT LI LU<br>MC NL PT SE * 20000315 AT BE CH<br>CY DE DK ES FI FR GB GR IE IT LI LU<br>MC NL PT |
| EP0985607 A1 | 20001122 | LSFE | +AKX  | PAYMENT OF DESIGNATION FEES                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EP0985607 A1 | 20010718 | LSDW | -18D  | DEEMED TO BE WITHDRAWN                                                                | EFFECTIVE DATE : 20000916                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| EP1102710 A1 | 20010530 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EP1102710 A1 | 20010530 | LSES | +17P  | REQUEST FOR EXAMINATION FILED                                                         | EFFECTIVE DATE : 20010122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| EP1102710 A1 | 20010816 | LSES | +17Q  | FIRST EXAMINATION REPORT                                                              | EFFECTIVE DATE : 20010629                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| EP1102710 A1 | 20011128 | LSAS | RAP1  | TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION                                     | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES S.P.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| EP1102710 A1 | 20020612 | LSAS | RAP1  | TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION                                     | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES S.P.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| EP1102710 A1 | 20030205 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : AT<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20030205                                                                                                                                                                                                                                                                                                                                     |
| EP1102710 A1 | 20030205 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : BE<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20030205                                                                                                                                                                                                                                                                                                                                     |
| EP1102710 A1 | 20030205 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CH<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20030205                                                                                                                                                                                                                                                                                                                                     |
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| EP1102710 A1 | 20030205 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LI<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20030205                                                                                                                                                                                                                                                                                                                                     |
| EP1102710 A1 | 20030205 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : GB<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| EP1102710 A1 | 20030214 | LSNP | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                        |
| EP1102710 A1 | 20030305 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                      |
| EP1102710 A1 | 20030505 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : DK<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20030505 |
| EP1102710 A1 | 20030505 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : PT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20030505 |
| EP1102710 A1 | 20030505 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20030505 |
| EP1102710 A1 | 20030506 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : DE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20030506 |
| EP1102710 A1 | 20030616 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : FG2A<br>REF DOCUMENT NUMBER : 2188209<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : T3<br>DESIGNATED STATE(S) :                          |
| EP1102710 A1 | 20030719 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CY<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20030719 |
| EP1102710 A1 | 20030719 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LU<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20030719                                                                               |
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| EP1102710 A1 | 20030815 | LSLE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : PL                                                                                                                                                        |
| EP1102710 A1 | 20040128 | LSGT | +26N  | NO OPPOSITION FILED                                                                   | EFFECTIVE DATE : 20031106                                                                                                                                                                                 |
| EP1102710 A1 | 20040505 | LSLE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : MM4A                                                                                                                                                      |

|                 |          |      |       |                                                                                                               |                                                                                                                                |
|-----------------|----------|------|-------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| EP1102710 A1    | 20090506 | LSAS | NLS   | NL:<br>ASSIGNMENTS<br>OF EP-<br>PATENTS                                                                       | PARTYTYPE : OWNER<br>REF COUNTRY CODE : EP<br>OWNER : GUALA CLOSURES S.P.A.<br>EFFECTIVE DATE : 20090211                       |
| EP1102710 A1    | 20141031 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : NL<br>PAYMENT DATE : 20140721<br>YEAR OF FEE PAYMENT : 16                                            |
| EP1102710 A1    | 20141128 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : FR<br>PAYMENT DATE : 20140721<br>YEAR OF FEE PAYMENT : 16                                            |
| EP1102710 A1    | 20160429 | LSLE | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE : ST<br>EFFECTIVE DATE : 20160331                                                |
| EP1102710 A1    | 20160531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : FR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE<br>FEES<br>LAPSED DATE : 20150731 |
| EP1102710 A1    | 20160531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : NL<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE<br>FEES<br>LAPSED DATE : 20150801 |
| EP1102710 A1    | 20161031 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : IT<br>PAYMENT DATE : 20160725<br>YEAR OF FEE PAYMENT : 18                                            |
| EP1102710 A1    | 20161031 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : GB<br>PAYMENT DATE : 20160721<br>YEAR OF FEE PAYMENT : 18                                            |
| EP1102710 A1    | 20161230 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : ES<br>PAYMENT DATE : 20160715<br>YEAR OF FEE PAYMENT : 18                                            |
| EP1102710 B1    | 20030205 | LSGT | +     | granted /<br>extensions<br>(spc, cpc, pte)                                                                    |                                                                                                                                |
| ES2188209 T3    | 20030616 | LSGT | +     | granted /<br>extensions<br>(spc, cpc, pte)                                                                    |                                                                                                                                |
| MXPA01000996 A1 | 20020424 | LSPB | +     | published /<br>reissued                                                                                       |                                                                                                                                |
| MXPA01000996 A1 | 20050613 | LSGT | +FG   | GRANT OR<br>REGISTRATION                                                                                      |                                                                                                                                |
| MXPA01000996 A1 | 20080919 | LSLI | GD    | LICENCE<br>GRANTED                                                                                            |                                                                                                                                |
| MXPA01000996 A1 | 20081202 | LSAS | GB    | TRANSFER OR<br>ASSIGNMENT                                                                                     |                                                                                                                                |
| MXPA01000996 A1 | 20081202 | LSAS | HC    | CHANGE OF<br>COMPANY NAME<br>OR JURIDICAL<br>STATUS                                                           |                                                                                                                                |
| PL197488 B1     | 20080430 | LSGT | +     | granted /<br>extensions<br>(spc, cpc, pte)                                                                    |                                                                                                                                |
| PL345694 A1     | 20020102 | LSPB | +     | published /<br>reissued                                                                                       |                                                                                                                                |
| RU2001105531 A  | 20030110 | LSPB | +     | published /<br>reissued                                                                                       |                                                                                                                                |
| RU2201385 C2    | 20030327 | LSGT | +     | granted /<br>extensions<br>(spc, cpc, pte)                                                                    |                                                                                                                                |
| US6454126 BA    | 20020924 | LSGT | +     | granted /<br>extensions<br>(spc, cpc, pte)                                                                    |                                                                                                                                |
| US6454126 BA    | 20010326 | LSAS | AS    | ASSIGNMENT                                                                                                    | OWNER NAME : GUALA CLOSURES<br>S.P.A., ITALY<br>DESCRIPTION : ASSIGNMENT OF<br>ASSIGNORS INTEREST;                             |

|              |          |      |       |                                                |                                                                        |
|--------------|----------|------|-------|------------------------------------------------|------------------------------------------------------------------------|
| US6454126 BA | 20060411 | LSFE | +FPAY | FEE PAYMENT                                    | YEAR OF FEE PAYMENT : 4                                                |
| US6454126 BA | 20100318 | LSFE | +FPAY | FEE PAYMENT                                    | YEAR OF FEE PAYMENT : 8                                                |
| US6454126 BA | 20140320 | LSFE | +FPAY | FEE PAYMENT                                    | YEAR OF FEE PAYMENT : 12                                               |
| WO0006461 A1 | 20000210 | LSPB | +     | published / reissued                           |                                                                        |
| WO0006461 A1 | 20010122 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : 1999938286<br>COUNTRY OF REF DOCUMENT : EP       |
| WO0006461 A1 | 20010126 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : PA/A/2001/000996<br>COUNTRY OF REF DOCUMENT : MX |
| WO0006461 A1 | 20010402 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : 09744738<br>COUNTRY OF REF DOCUMENT : US         |
| WO0006461 A1 | 20010530 | LSPB | +WWP  | WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE | REF DOCUMENT NUMBER : 1999938286<br>COUNTRY OF REF DOCUMENT : EP       |
| WO0006461 A1 | 20010531 | LSWD | REG   | REFERENCE TO NATIONAL CODE                     | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : 8642                   |
| WO0006461 A1 | 20020128 | LSNE | NENP  | NON-ENTRY INTO THE NATIONAL PHASE IN:          | REF COUNTRY CODE : CA                                                  |
| WO0006461 A1 | 20030205 | LSGT | +WWG  | WIPO INFORMATION: GRANT IN NATIONAL OFFICE     | REF DOCUMENT NUMBER : 1999938286<br>COUNTRY OF REF DOCUMENT : EP       |

**Title:** TAMPER-EVIDENT DEVICE

**Abstract:** Source: US2004129729A There is disclosed a tamper-evident device for a closure assembly adapted to be applied to a mouth of a container, for example, a neck of a bottle. There has been identified a need for an improved tamper-evident device which does not have any parts which are removed upon initial opening and which are liable to be reattached by counterfeits or the like. Accordingly the present invention provides a tamper-evident device comprising a sleeve member which comprises a first portion associated with a second portion by means of a frangible portion therebetween, and wherein said first portion is adapted to be applied to a mouth and neck portion of a container, and said second portion is associated with a container closure member, and wherein an initial container opening operation causes said frangible portion to fracture or break such that when the container is reclosed said first and second portions are located in a spaced apart relationship to one another.

**Classifications:**

**International (IPC 8-9):** B65D41/62 B65D49/04

B65D55/08 (Advanced/Invention);

B65D41/00 B65D49/00 B65D55/02 (Core/Invention)

**International (IPC 1-7):** B65D49/02 B65D49/04 B65D55/08

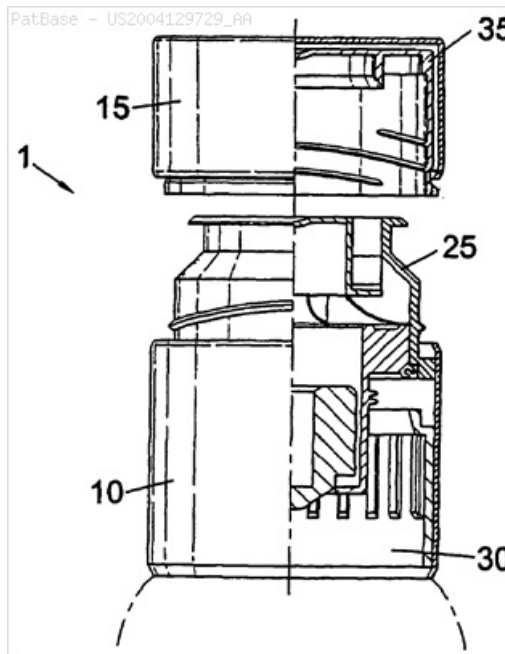
B67B5/00 B67D5/32

**CPC:** B65D41/62 B65D49/04

**European:** B65D41/62 B65D49/04

**US:** 215/251 215/253 215/28 220/268 220/276 222/153.06

222/153.1 222/495 222/546

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT305420 E         | 20051015         | AT20020735580T     | 20020522         |
| BRPI0210018 A      | 20040810         | BR2002PI10018      | 20020522         |
| BRPI0210018 B1     | 20131224         | BR2002PI10018      | 20020522         |
| CN1270941 C        | 20060823         | CN20028010611      | 20020522         |
| CN1524053 A        | 20040825         | CN20028010611      | 20020522         |
| DE60206374 C5      | 20141030         | DE20026006374      | 20020522         |
| DE60206374 D1      | 20060209         | DE20026006374      | 20020522         |
| DE60206374 T2      | 20060713         | DE20026006374T     | 20020522         |
| EA005536 B1        | 20050428         | EA20030001298      | 20020522         |
| EA200301298 A1     | 20040624         | EA20030001298      | 20020522         |
| EP1392575 A1       | 20040303         | EP20020735580      | 20020522         |
| EP1392575 B1       | 20050928         | EP20020735580      | 20020522         |
| ES2249582 T3       | 20060401         | ES20020735580T     | 20020522         |
| GB200112726 A0     | 20010718         | GB20010012726      | 20010525         |
| GB200211569 A0     | 20020626         | GB20020011569      | 20020521         |
| GB2377699 A1       | 20030122         | GB20020011569      | 20020521         |
| GB2377699 B2       | 20050105         | GB20020011569      | 20020521         |
| IN01917DN2003 A    | 20051216         | IN2003DN01917      | 20031114         |
| IN257060 B         | 20130830         | IN2003DN01917      | 20031114         |
| MXPA03010696 A1    | 20050307         | MX2003PA10696      | 20020522         |
| PL199890 B1        | 20081128         | PL20020367335      | 20020522         |
| PL367335 A1        | 20050221         | PL20020367335      | 20020522         |
| US2004129729 AA    | 20040708         | US20030719232      | 20031120         |
| US6908013 BB       | 20050621         | US20030719232      | 20031120         |
| WO02096771 A1      | 20021205         | WO2002GB02404      | 20020522         |

**Priority:**

GB20010012726 20010525 WO2002GB02404 20020522

**Probable Assignee:** GUALA CLOSURES PATENTS BV

**Assignee(s):** (std): DANIEL MONTGOMERY AND AMP ; DANIEL MONTGOMERY AND SON LTD ; GUALA CLOSURES PATENTS BV ; GUALA CLOSURES U K LTD ; MEZZADRA EGIDIO ; MONTGOMERY DANIEL AND SON LTD ; THOMSON DAVID WILLIAM ; SON LTD

**Assignee(s):** DANIEL MONTGOMERY AND ; GUALA CLOSURES U K LTD KIRKINTILLOCH ; GUALA CLOSURES UK LTD ; DANIEL MONTGOMERY AND SON LTD KIRKINTILLOCH ; GUALA CLOSURES INT BV

**Inventor(s):** (std): EGIDIO MEZZADRA ; EGIDIO THOMSON DAVID WILLIAM M ; MEZZADRA EGIDIO ; MEZZADRA EGIDIO GLOBAL CAP ; THOMPSON DAVID WILLIAM ; THOMSON DAVID ; THOMSON DAVID WILLIAM ; THOMSON DAVID WILLIAM MEZZADRA EGIDIO ; THOMSON WILLIAM ; MEZZADRA EGIDIO G

**Inventor(s):** DAVID WILLIAM THOMSON

**Agent(s):** NOTARO AND MICHALOS PC

**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 LI 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                                                                                                                                                                                                                                                          |
|----------------|---------------|-------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AT305420 E     | 20051015      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                                                                               |                                                                                                                                                                                                                                                                  |
| AT305420 E     | 20060315      | LSLE        | -RER  | CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES                                                                                    |                                                                                                                                                                                                                                                                  |
| BRPI0210018 A  | 20040810      | LSPB        | +     | published / reissued                                                                                                                               |                                                                                                                                                                                                                                                                  |
| BRPI0210018 A  | 20070626      | LSAS        | B25F  | ENTRY OF CHANGE OF NAME AND/OR HEADQUARTER AND TRANSFER OF APPLICATION, PATENT AND CERTIF. OF ADDITION OF INVENTION: CHANGE OF NAME ON REQUIREMENT | OWNER NAME : DANIEL MONTGOMERY AND SON LIMITED (GB)<br>DESCRIPTION : A FIM DE ATENDER O SOLICITADO NA PETICAO DE ALTERACAO DE NOME NO 020070000417/RJ DE 02/01/2007, QUEIRA REAPRESENTAR O DOCUMENTO DE ALTERACAO DE NOME COM A RESPECTIVA LEGALIZACAO CONSULAR. |
| BRPI0210018 A  | 20081111      | LSAS        | B25D  | REQUESTED CHANGE OF NAME OF APPLICANT APPROVED                                                                                                     | OWNER NAME : GUALA CLOSURES U.K. LIMITED (GB)<br>DESCRIPTION : ALTERADO DE: DANIEL MONTGOMERY AND SON LIMITED                                                                                                                                                    |
| BRPI0210018 A  | 20090901      | LSAS        | B25A  | REQUESTED TRANSFER OF RIGHTS APPROVED                                                                                                              | OWNER NAME : GUALA CLOSURES PATENTS B.V. (NL)<br>DESCRIPTION : TRANSFERIDO DE: GUALA CLOSURES U.K. LIMITED                                                                                                                                                       |
| BRPI0210018 A  | 20131022      | LSGT        | B09A  | DECISION: INTENTION TO GRANT                                                                                                                       |                                                                                                                                                                                                                                                                  |
| BRPI0210018 A  | 20131224      | LSGT        | +B16A | PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED                                                                                             | DESCRIPTION : PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 24/12/2013, OBSERVADAS AS CONDICICOES LEGAIS.                                                                                                                                                |
| BRPI0210018 B1 | 20131224      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                                                                               |                                                                                                                                                                                                                                                                  |
| BRPI0210018 B1 | 20160906      | LSAS        | B25G  | REQUESTED CHANGE OF HEADQUARTER APPROVED                                                                                                           |                                                                                                                                                                                                                                                                  |
| BRPI0210018 B1 | 20160927      | LSAS        | B25A  | REQUESTED TRANSFER OF RIGHTS APPROVED                                                                                                              |                                                                                                                                                                                                                                                                  |
| CN1270941 C    | 20060823      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                                                                               |                                                                                                                                                                                                                                                                  |
| CN1270941 C    | 20040825      | LSPB        | +C06  | PUBLICATION                                                                                                                                        |                                                                                                                                                                                                                                                                  |
| CN1270941 C    | 20060823      | LSGT        | +C14  | GRANT OF PATENT OR UTILITY MODEL                                                                                                                   |                                                                                                                                                                                                                                                                  |
| CN1270941 C    | 20070314      | LSAS        | C56   | CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE                                                                                                      | OWNER NAME : GUALA CLOSURES BRITISH CO., LTD.<br>DESCRIPTION : FORMER NAME OR ADDRESS: DANIEL MONTGOMERY + SAONE LTD.                                                                                                                                            |
| CN1270941 C    | 20070314      | LSAS        | C56   | CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE                                                                                                      |                                                                                                                                                                                                                                                                  |
| CN1270941 C    | 20071114      | LSAS        | ASS   | SUCCESSION OR ASSIGNMENT OF PATENT RIGHT                                                                                                           | OWNER NAME : GUALA CAPS PATENT CO., LTD.<br>DESCRIPTION : FORMER OWNER: GUALA CLOSURES BRITISH CO., LTD.<br>EFFECTIVE DATE : 20071012                                                                                                                            |
| CN1270941 C    | 20071114      | LSAS        | C41   | TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL                                                                                    |                                                                                                                                                                                                                                                                  |
| CN1270941 C    | 20080220      | LSLI        | LIC   | PATENT LICENCE                                                                                                                                     | DESCRIPTION : EXCLUSIVE                                                                                                                                                                                                                                          |

|                |          |       |       |                                                                                                                          |                                                                                                                                                                                                          |
|----------------|----------|-------|-------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |          |       |       | CONTRACT FOR EXPLOITATION SUBMITTED FOR RECORD                                                                           | LICENCE; TIME LIMIT OF IMPLEMENTING CONTACT: 2007.10.11 TO 2015.11.8<br>NAME OF REQUESTER : BEIJING GUALA CAPS CO., LTD.<br>EFFECTIVE DATE : 20071229                                                    |
| CN1270941 C    | 20151028 | LSAS  | C41   | TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL                                                          |                                                                                                                                                                                                          |
| CN1270941 C    | 20160420 | LSRV  | -C35  | PARTIAL OR WHOLE INVALIDATION OF PATENT OR UTILITY MODEL                                                                 |                                                                                                                                                                                                          |
| CN1524053 A    | 20040825 | LSPB  | +     | published / reissued                                                                                                     |                                                                                                                                                                                                          |
| DE60206374 D1  | 20060413 | LSAS  | 8327  | CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER                                                                    | OWNER NAME : GUALA CLOSURES U.K. LTD., KIRKINTILLOCH, GLASGOW,                                                                                                                                           |
| DE60206374 D1  | 20061019 | LSGT  | +8364 | NO OPPOSITION DURING TERM OF OPPOSITION                                                                                  |                                                                                                                                                                                                          |
| DE60206374 D1  | 20070906 | LSAS  | 8327  | CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER                                                                    | OWNER NAME : GUALA CLOSURES PATENTS B.V., AMSTERDAM, NL                                                                                                                                                  |
| DE60206374 T2  | 20060713 | LSGT  | +     | granted / extensions (spc, cpc, pte)                                                                                     |                                                                                                                                                                                                          |
| EA005536 B1    | 20050428 | LSGT  | +     | granted / extensions (spc, cpc, pte)                                                                                     |                                                                                                                                                                                                          |
| EA005536 B1    | 20051027 | LSAS  | TC4A  | CHANGE IN NAME OF A PATENT PROPRIETOR IN A EURASIAN PATENT                                                               | DESIGNATED STATE(S) : BY                                                                                                                                                                                 |
| EA005536 B1    | 20060224 | LSLE  | -MM4A | LAPSE OF A EURASIAN PATENT DUE TO NON-PAYMENT OF RENEWAL FEES WITHIN THE TIME LIMIT IN THE FOLLOWING DESIGNATED STATE(S) | DESIGNATED STATE(S) : KG MD TJ TM                                                                                                                                                                        |
| EA005536 B1    | 20070629 | LSRE  | PC4A  | REGISTRATION OF TRANSFER OF A EURASIAN PATENT BY ASSIGNMENT                                                              |                                                                                                                                                                                                          |
| EA005536 B1    | 20160129 | LSRE  | PD4A  | REGISTRATION OF TRANSFER OF A EURASIAN PATENT IN ACCORDANCE WITH THE SUCCESSION IN TITLE                                 |                                                                                                                                                                                                          |
| EA005536 B1    | 20160229 | LSLE  | -MM4A | LAPSE OF A EURASIAN PATENT DUE TO NON-PAYMENT OF RENEWAL FEES WITHIN THE TIME LIMIT IN THE FOLLOWING DESIGNATED STATE(S) | DESIGNATED STATE(S) : AM                                                                                                                                                                                 |
| EA200301298 A1 | 20040624 | LSPB  | +     | published / reissued                                                                                                     |                                                                                                                                                                                                          |
| EP1392575 A1   | 20040303 | LSPB  | +     | published / reissued                                                                                                     |                                                                                                                                                                                                          |
| EP1392575 A1   | 20040303 | LSSES | +17P  | REQUEST FOR EXAMINATION FILED                                                                                            | EFFECTIVE DATE : 20031118                                                                                                                                                                                |
| EP1392575 A1   | 20050928 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                    | COUNTRY OF REF DOCUMENT : AT<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20050928 |
| EP1392575 A1   | 20050928 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                    | COUNTRY OF REF DOCUMENT : BE<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20050928 |
| EP1392575 A1   | 20050928 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                    | COUNTRY OF REF DOCUMENT : CH<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE                                                 |

|              |          |      |       |                                                                                                                         |                                                                                                                                                                                                                            |
|--------------|----------|------|-------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       |                                                                                                                         | PREScribed TIME-LIMIT<br>LAPSED DATE : 20050928                                                                                                                                                                            |
| EP1392575 A1 | 20050928 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : FI<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PREScribed TIME-LIMIT<br>LAPSED DATE : 20050928 |
| EP1392575 A1 | 20050928 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : LI<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PREScribed TIME-LIMIT<br>LAPSED DATE : 20050928 |
| EP1392575 A1 | 20050928 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : NL<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PREScribed TIME-LIMIT<br>LAPSED DATE : 20050928 |
| EP1392575 A1 | 20050928 | LSGT | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : GB<br>REF LEGAL EVENT CODE :<br>FG4D                                                                                                                                                                    |
| EP1392575 A1 | 20050930 | LSNP | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                                         |
| EP1392575 A1 | 20051019 | LSGT | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE :<br>FG4D                                                                                                                                                                    |
| EP1392575 A1 | 20051214 | LSAS | RAP2  | TRANSFER OF RIGHTS<br>OF AN EP GRANTED<br>PATENT                                                                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES<br>U.K. LIMITED                                                                                                                                                                |
| EP1392575 A1 | 20051228 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : DK<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PREScribed TIME-LIMIT<br>LAPSED DATE : 20051228 |
| EP1392575 A1 | 20051228 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : GR<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PREScribed TIME-LIMIT<br>LAPSED DATE : 20051228 |
| EP1392575 A1 | 20051228 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : SE<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PREScribed TIME-LIMIT<br>LAPSED DATE : 20051228 |
| EP1392575 A1 | 20060228 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : PT<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PREScribed TIME-LIMIT<br>LAPSED DATE : 20060228 |
| EP1392575 A1 | 20060301 | LSLE | -NLV1 | NL: LAPSED OR<br>ANNULLED DUE TO<br>FAILURE TO FULFILL<br>THE REQUIREMENTS OF<br>ART. 29P AND 29M OF<br>THE PATENTS ACT | REF COUNTRY CODE : EP                                                                                                                                                                                                      |
| EP1392575 A1 | 20060401 | LSGT | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE :                                                                                                                                                                            |

|              |          |      |       |                                                                                                      |  |                                                                                                                                                                                                                            |
|--------------|----------|------|-------|------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       |                                                                                                      |  | FG2A<br>REF DOCUMENT NUMBER :<br>2249582<br>COUNTRY OF REF<br>DOCUMENT : ES<br>KIND CODE OF REF<br>DOCUMENT : T3<br>DESIGNATED STATE(S) :                                                                                  |
| EP1392575 A1 | 20060413 | LSLE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      |  | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : PL                                                                                                                                                                         |
| EP1392575 A1 | 20060522 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO |  | COUNTRY OF REF<br>DOCUMENT : IE<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF NON-<br>PAYMENT OF DUE FEES<br>LAPSED DATE : 20060522                                                                                       |
| EP1392575 A1 | 20060531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO |  | COUNTRY OF REF<br>DOCUMENT : MC<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF NON-<br>PAYMENT OF DUE FEES<br>LAPSED DATE : 20060531                                                                                       |
| EP1392575 A1 | 20060906 | LSGT | +26N  | NO OPPOSITION FILED                                                                                  |  | EFFECTIVE DATE : 20060629                                                                                                                                                                                                  |
| EP1392575 A1 | 20070221 | LSLE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      |  | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE :<br>MM4A                                                                                                                                                                    |
| EP1392575 A1 | 20080731 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO |  | COUNTRY OF REF<br>DOCUMENT : LU<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF NON-<br>PAYMENT OF DUE FEES<br>LAPSED DATE : 20060522                                                                                       |
| EP1392575 A1 | 20081128 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO |  | COUNTRY OF REF<br>DOCUMENT : CY<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20050928 |
| EP1392575 A1 | 20120903 | LSOP | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      |  | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE :<br>R008<br>REF DOCUMENT NUMBER :<br>60206374<br>COUNTRY OF REF<br>DOCUMENT : DE                                                                                            |
| EP1392575 A1 | 20121206 | LSRV | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      |  | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE :<br>R039<br>REF DOCUMENT NUMBER :<br>60206374<br>COUNTRY OF REF<br>DOCUMENT : DE<br>EFFECTIVE DATE : 20120903                                                               |
| EP1392575 A1 | 20140220 | LSRV | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      |  | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE :<br>R043<br>REF DOCUMENT NUMBER :<br>60206374<br>COUNTRY OF REF<br>DOCUMENT : DE                                                                                            |
| EP1392575 A1 | 20141009 | LSRV | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      |  | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE :<br>R043<br>REF DOCUMENT NUMBER :<br>60206374<br>COUNTRY OF REF<br>DOCUMENT : DE<br>EFFECTIVE DATE : 20140220                                                               |
| EP1392575 A1 | 20141030 | LSRE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      |  | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE :<br>R206<br>REF DOCUMENT NUMBER :<br>60206374<br>COUNTRY OF REF<br>DOCUMENT : DE<br>EFFECTIVE DATE : 20141030                                                               |
| EP1392575 A1 | 20150521 | LSFE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      |  | REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE :<br>PLFP<br>YEAR OF FEE PAYMENT : 14                                                                                                                                        |

|                 |          |      |       |                                                                |                                                                                                                                                                                                                                                                        |
|-----------------|----------|------|-------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EP1392575 A1    | 20150903 | LSAS | REG   | REFERENCE TO A NATIONAL CODE                                   | PARTYTYPE : OWNER<br>REF COUNTRY CODE : DE<br>OWNER : GUALA CLOSURES INTERNATIONAL B.V., NL<br>REF LEGAL EVENT CODE : R081<br>REF DOCUMENT NUMBER : 60206374<br>COUNTRY OF REF DOCUMENT : DE<br>OLDPARTY : FORMER<br>OWNER: GUALA CLOSURES PATENTS B.V., AMSTERDAM, NL |
| EP1392575 A1    | 20151001 | LSAS | REG   | REFERENCE TO A NATIONAL CODE                                   | PARTYTYPE : OWNER<br>REF COUNTRY CODE : ES<br>OWNER : GUALA CLOSURES INTERNATIONAL B.V.<br>REF LEGAL EVENT CODE : PC2A<br>EFFECTIVE DATE : 20150925                                                                                                                    |
| EP1392575 A1    | 20160520 | LSFE | REG   | REFERENCE TO A NATIONAL CODE                                   | REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE : PLFP<br>YEAR OF FEE PAYMENT : 15                                                                                                                                                                                       |
| EP1392575 A1    | 20160729 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                 | COUNTRY OF REF DOCUMENT : DE<br>PAYMENT DATE : 20160520<br>YEAR OF FEE PAYMENT : 15                                                                                                                                                                                    |
| EP1392575 A1    | 20160729 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                 | COUNTRY OF REF DOCUMENT : ES<br>PAYMENT DATE : 20160512<br>YEAR OF FEE PAYMENT : 15                                                                                                                                                                                    |
| EP1392575 A1    | 20160729 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                 | COUNTRY OF REF DOCUMENT : GB<br>PAYMENT DATE : 20160520<br>YEAR OF FEE PAYMENT : 15                                                                                                                                                                                    |
| EP1392575 A1    | 20160831 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                 | COUNTRY OF REF DOCUMENT : IT<br>PAYMENT DATE : 20160525<br>YEAR OF FEE PAYMENT : 15                                                                                                                                                                                    |
| EP1392575 A1    | 20160831 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                 | COUNTRY OF REF DOCUMENT : TR<br>PAYMENT DATE : 20160422<br>YEAR OF FEE PAYMENT : 15                                                                                                                                                                                    |
| EP1392575 A1    | 20160831 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                 | COUNTRY OF REF DOCUMENT : FR<br>PAYMENT DATE : 20160520<br>YEAR OF FEE PAYMENT : 15                                                                                                                                                                                    |
| EP1392575 B1    | 20050928 | LSGT | +     | granted / extensions (spc, cpc, pte)                           |                                                                                                                                                                                                                                                                        |
| ES2249582 T3    | 20060401 | LSGT | +     | granted / extensions (spc, cpc, pte)                           |                                                                                                                                                                                                                                                                        |
| GB200112726 A0  | 20020925 | LSWD | -AT   | APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1) |                                                                                                                                                                                                                                                                        |
| GB2377699 A1    | 20030122 | LSPB | +     | published / reissued                                           |                                                                                                                                                                                                                                                                        |
| GB2377699 B2    | 20050105 | LSGT | +     | granted / extensions (spc, cpc, pte)                           |                                                                                                                                                                                                                                                                        |
| IN01917DN2003 A | 20051216 | LSPB | +     | published / reissued                                           |                                                                                                                                                                                                                                                                        |
| IN257060 B      | 20130830 | LSGT | +     | granted / extensions (spc, cpc, pte)                           |                                                                                                                                                                                                                                                                        |
| MXPA03010696 A1 | 20050307 | LSPB | +     | published / reissued                                           |                                                                                                                                                                                                                                                                        |
| MXPA03010696 A1 | 20070202 | LSGT | +FG   | GRANT OR REGISTRATION                                          |                                                                                                                                                                                                                                                                        |
| MXPA03010696 A1 | 20070404 | LSAS | HC    | CHANGE OF COMPANY NAME OR JURIDICAL STATUS                     |                                                                                                                                                                                                                                                                        |
| MXPA03010696 A1 | 20070913 | LSAS | GB    | TRANSFER OR ASSIGNMENT                                         |                                                                                                                                                                                                                                                                        |
| MXPA03010696 A1 | 20080919 | LSLI | GD    | LICENCE GRANTED                                                |                                                                                                                                                                                                                                                                        |
| PL199890 B1     | 20081128 | LSGT | +     | granted / extensions (spc, cpc, pte)                           |                                                                                                                                                                                                                                                                        |
| PL367335 A1     | 20050221 | LSPB | +     | published / reissued                                           |                                                                                                                                                                                                                                                                        |

|                 |          |      |       |                                                   |                                                                                                                                                                                                                                                                             |
|-----------------|----------|------|-------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US2004129729 AA | 20040708 | LSPB | +     | published / reissued                              |                                                                                                                                                                                                                                                                             |
| US6908013 BB    | 20050621 | LSGT | +     | granted / extensions<br>(spc, cpc, pte)           |                                                                                                                                                                                                                                                                             |
| US6908013 BB    | 20040305 | LSAS | AS    | ASSIGNMENT                                        | PARTYTYPE : OWNER<br>OWNER : DANIEL<br>MONTGOMERY & SON<br>LIMITED, UNITED KINGDOM<br>OLDPARTY : ASSIGNMENT OF<br>ASSIGNORS INTEREST;<br>ASSIGNORS:THOMSON,<br>DAVID WILLIAM; MEZZADRA,<br>EGIDIO;<br>REEL/FRAME:014403/0408;<br>SIGNING DATES FROM<br>20031114 TO 20031119 |
| US6908013 BB    | 20060822 | LSAS | AS    | ASSIGNMENT                                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES<br>U.K. LIMITED, UNITED<br>KINGDOM<br>OLDPARTY : CHANGE OF<br>NAME; ASSIGNOR:DANIEL<br>MONTGOMERY & SON<br>LIMITED;<br>REEL/FRAME:018148/0020<br>EFFECTIVE DATE : 20050712                                                      |
| US6908013 BB    | 20070116 | LSAS | AS    | ASSIGNMENT                                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES<br>PATENTS B.V., NETHERLANDS<br>OLDPARTY : ASSIGNMENT OF<br>ASSIGNORS INTEREST;<br>ASSIGNOR:GUALA<br>CLOSURES U.K. LIMITED;<br>REEL/FRAME:018797/0199<br>EFFECTIVE DATE : 20060809                                              |
| US6908013 BB    | 20081218 | LSFE | +FPAY | FEE PAYMENT                                       | YEAR OF FEE PAYMENT : 4                                                                                                                                                                                                                                                     |
| US6908013 BB    | 20121213 | LSFE | +FPAY | FEE PAYMENT                                       | YEAR OF FEE PAYMENT : 8                                                                                                                                                                                                                                                     |
| US6908013 BB    | 20150819 | LSAS | AS    | ASSIGNMENT                                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES<br>PATENTS B.V., NETHERLANDS<br>OLDPARTY : CHANGE OF<br>NAME; ASSIGNOR:GUALA<br>PATENTS B.V.;<br>REEL/FRAME:036362/0651<br>EFFECTIVE DATE : 19981029                                                                            |
| US6908013 BB    | 20150819 | LSAS | AS    | ASSIGNMENT                                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES<br>INTERNATIONAL B.V.,<br>NETHERLANDS<br>OLDPARTY : MERGER AND<br>CHANGE OF NAME;<br>ASSIGNORS:GUALA<br>CLOSURES PATENTS B.V.;<br>GUALA CLOSURES<br>INTERNATIONAL B.V.;<br>REEL/FRAME:036362/0754<br>EFFECTIVE DATE : 20150620  |
| US6908013 BB    | 20150819 | LSAS | AS    | ASSIGNMENT                                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES<br>PATENTS B.V., NETHERLANDS<br>OLDPARTY : CHANGE OF<br>ADDRESS; ASSIGNOR:GUALA<br>CLOSURES PATENTS B.V.;<br>REEL/FRAME:036396/0661<br>EFFECTIVE DATE : 20150301                                                                |
| US6908013 BB    | 20161212 | LSFE | +FPAY | FEE PAYMENT                                       | YEAR OF FEE PAYMENT : 12                                                                                                                                                                                                                                                    |
| WO02096771 A1   | 20021205 | LSPB | +     | published / reissued                              |                                                                                                                                                                                                                                                                             |
| WO02096771 A1   | 20031114 | LSNP | +WWE  | WIPO INFORMATION:<br>ENTRY INTO NATIONAL<br>PHASE | REF DOCUMENT NUMBER :<br>2002735580<br>COUNTRY OF REF<br>DOCUMENT : EP                                                                                                                                                                                                      |
| WO02096771 A1   | 20031120 | LSNP | +WWE  | WIPO INFORMATION:<br>ENTRY INTO NATIONAL<br>PHASE | REF DOCUMENT NUMBER :<br>10719232<br>COUNTRY OF REF<br>DOCUMENT : US                                                                                                                                                                                                        |
| WO02096771 A1   | 20031121 | LSNP | +WWE  | WIPO INFORMATION:<br>ENTRY INTO NATIONAL<br>PHASE | REF DOCUMENT NUMBER :<br>PA/A/2003/010696<br>COUNTRY OF REF<br>DOCUMENT : MX                                                                                                                                                                                                |
| WO02096771 A1   | 20031125 | LSNP | +WWE  | WIPO INFORMATION:<br>ENTRY INTO NATIONAL<br>PHASE | REF DOCUMENT NUMBER :<br>028106113<br>COUNTRY OF REF<br>DOCUMENT : CN                                                                                                                                                                                                       |

|               |          |      |      |                                                      |                                                                        |
|---------------|----------|------|------|------------------------------------------------------|------------------------------------------------------------------------|
| WO02096771 A1 | 20040303 | LSPB | +WWP | WIPO INFORMATION:<br>PUBLISHED IN<br>NATIONAL OFFICE | REF DOCUMENT NUMBER :<br>2002735580<br>COUNTRY OF REF<br>DOCUMENT : EP |
| WO02096771 A1 | 20040408 | LSWD | REG  | REFERENCE TO<br>NATIONAL CODE                        | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE :<br>8642                |
| WO02096771 A1 | 20050928 | LSGT | +WWG | WIPO INFORMATION:<br>GRANT IN NATIONAL<br>OFFICE     | REF DOCUMENT NUMBER :<br>2002735580<br>COUNTRY OF REF<br>DOCUMENT : EP |
| WO02096771 A1 | 20060420 | LSNE | NENP | NON-ENTRY INTO THE<br>NATIONAL PHASE IN:             | REF COUNTRY CODE : JP                                                  |
| WO02096771 A1 | 20060420 | LSWD | -WWW | WIPO INFORMATION:<br>WITHDRAWN IN<br>NATIONAL OFFICE | COUNTRY OF REF<br>DOCUMENT : JP                                        |

**Title:** LIQUID CONTAINER CLOSURE ASSEMBLY

**Abstract:** Source: US2005115915A A closure assembly for a mouth and neck portion of a container for liquid has a sleeve adapted to lie substantially concentrically with respect to the mouth and provided with a mechanism for fixing the sleeve on the container. A first outer sleeve is coaxially mounted over the sleeve and a second outer sleeve separate from the first outer sleeve and substantially tight fit with a container closure member. The first and second outer sleeves are axially aligned and have respective initially adjacent portions. A mechanism is provided for spacing apart the initially adjacent portions of the first and second outer sleeves upon reclosure of the assembly after an initial opening of the container.

**Classifications:**

**International (ipc 8-9):** B65D39/00 B65D41/00 B65D41/04 B65D41/34 B65D41/62 B65D43/00 B65D47/00 B65D49/02 B65D49/04 B65D49/06 B65D51/00 B65D55/08 (Advanced/Invention); B65D41/34 B65D41/62 B65D49/02 B65D49/06 (Advanced/Non-invention);

B65D39/00 B65D41/00 B65D41/04 B65D43/00 B65D47/00 B65D49/00 B65D51/00 B65D55/02 (Core/Invention)

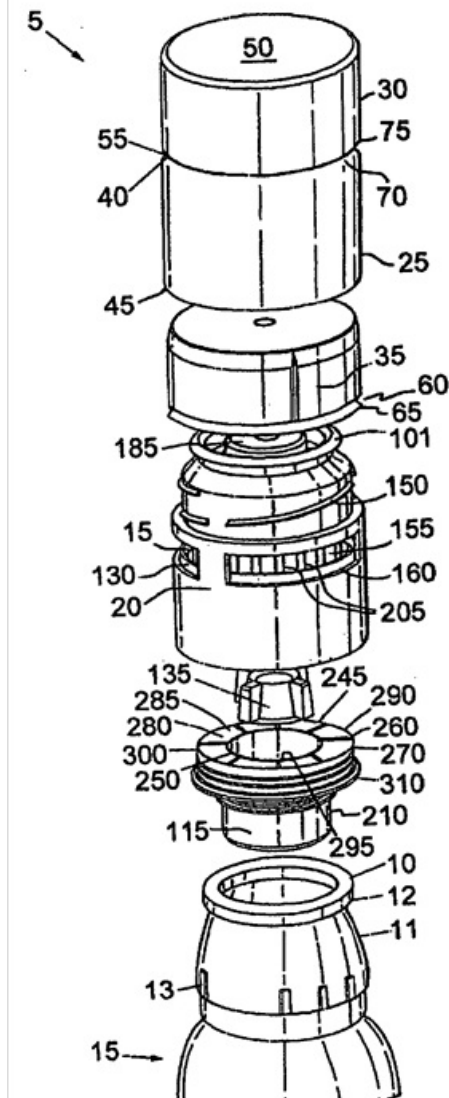
**International (ipc 1-7):** B65D39/00 B65D41/00 B65D41/34 B65D41/62 B65D43/00 B65D47/00 B65D49/02 B65D49/06 B65D51/00 B65D55/08

**CPC:** B65D41/62 B65D49/06 B65D55/0845 B65D49/04

**European:** B65D41/62 B65D49/04 B65D49/06 B65D55/08B2A

**US:** 215/21 215/252 215/258 215/277

PatBase - US2005115915\_HH



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT327179 E         | 20060615         | AT20030735804T     | 20030521         |
| AU2003236886 AA    | 20031222         | AU20030236886      | 20030521         |
| AU2003236886 BB    | 20090604         | AU20030236886      | 20030521         |
| BRPI0311671 A      | 20080304         | BR2003PI11671      | 20030521         |
| BRPI0311671 B1     | 20161213         | BR2003PI11671      | 20030521         |
| CN100340459 C      | 20071003         | CN20038013579      | 20030521         |
| CN1659084 A        | 20050824         | CN20038013579      | 20030521         |
| DE60305490 D1      | 20060629         | DE20036005490      | 20030521         |
| DE60305490 T2      | 20061102         | DE20036005490T     | 20030521         |
| DE60305490 T3      | 20110505         | DE20036005490T     | 20030521         |
| EA006145 B1        | 20051027         | EA20040001616      | 20030521         |
| EA200401616 A1     | 20050630         | EA20040001616      | 20030521         |
| EP1511677 A1       | 20050309         | EP20030735804      | 20030521         |
| EP1511677 B1       | 20060524         | EP20030735804      | 20030521         |
| EP1511677 B2       | 20101006         | EP20030735804      | 20030521         |
| ES2261945 T3       | 20061116         | ES20030735804T     | 20030521         |
| ES2261945 T5       | 20110217         | ES20030735804T     | 20030521         |
| GB200213257 A0     | 20020717         | GB20020013257      | 20020610         |
| GB2390086 A1       | 20031231         | GB20020013257      | 20020610         |
| IN03107CN2004 A    | 20060217         | IN2004CN03107      | 20041231         |

|                 |          |               |          |
|-----------------|----------|---------------|----------|
| IN259691 B      | 20140328 | IN2004CN03107 | 20041231 |
| KR100985342 B1  | 20101004 | KR20047020052 | 20030521 |
| KR20050028918 A | 20050323 | KR20047020052 | 20041209 |
| MXPA04012131 A1 | 20050524 | MX2004PA12131 | 20030521 |
| PL200301 B1     | 20081231 | PL20030372495 | 20030521 |
| PL372495 A1     | 20050725 | PL20030372495 | 20030521 |
| US2005115915 AA | 20050602 | US20040005198 | 20041206 |
| US7398890 BB    | 20080715 | US20040005198 | 20041206 |
| WO03104100 A1   | 20031218 | WO2003GB02185 | 20030521 |

**Priority:**

GB20020013257 20020610      US20040005198 20041206      WO2003GB02185 20030521

**Probable Assignee:** GUALA CLOSURES PATENTS BV

**Assignee(s):** (std): DANIEL MONTGOMERY AND AMP ; DANIEL MONTGOMERY AND SON LTD ; GUALA CLOSURES INT BV ; MONTGOMERY DANIEL AND SON LTD ; THOMSON DAVID WILLIAM ; SON LTD ; GUALA CLOSURES U K LTD ; GUALA CLOSURES PATENTS BV ; GUALA CLOSURES PATENTS B V

**Assignee(s):** GUALA CLOSURES U K LTD KIRKINTILLOCH ; GUALA CLOSURES U K LIMITED ; SON LIMITED ; GUALA CLOSURES UK LTD ; DANIEL MONTGOMERY AND SON LIMITED ; AMP ; DANIEL MONTGOMERY AMP AMP ; DANIEL MONTGOMERY AND

**Inventor(s):** (std): DAVID WILLIAM THOMSON ; THOMPSON DAVID WILLIAM ; WILLIAM THOMSON DAVID ; THOMSON DAVID WILLIAM ; THOMSON DAVID W DANIEL MONTGOM ; THOMSON DAVID W DANIEL ; THOMSON DAVID W

**Inventor(s):** THOMSON ; AND THOMSON DAVID W DANIEL MONTGOMERY ; THOMSON DAVID ; THOMSON DAVID W DANIEL MONTGOMERY and ; THOMSON DAVID W DANIEL MONTGOMERY AND SON LIMITED

**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; PERANI AURELIO; NOTARO AND MICHALOS; NOTARO AND MICHALOS PC

**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 LI 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 SC SD SE SG SI SK SL SN 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AT327179 E      | 20060615      | LSGT        | +    | granted / extensions (spc, cpc, pte)                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| AT327179 E      | 20061115      | LSLE        | -RER | CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| AU2003236886 AA | 20031222      | LSPB        | +    | published / reissued                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| AU2003236886 AA | 20060817      | LSAS        | TC   | CHANGE OF APPLICANT'S NAME (SEC. 104)                                                                                                              | OWNER NAME : GUALA CLOSURES U.K LIMITED<br>DESCRIPTION : FORMER NAME: DANIEL MONTGOMERY AND SON LIMITED                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| AU2003236886 AA | 20070621      | LSAS        | PC1  | ASSIGNMENT BEFORE GRANT (SECT. 113)                                                                                                                | OWNER NAME : GUALA CLOSURES PATENTS B.V.<br>DESCRIPTION : FORMER APPLICANT(S): GUALA CLOSURES U.K. LIMITED                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| AU2003236886 AA | 20091001      | LSGT        | +FGA | LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| AU2003236886 BB | 20090604      | LSGT        | +    | granted / extensions (spc, cpc, pte)                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| BRPI0311671 A   | 20080304      | LSPB        | +    | published / reissued                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| BRPI0311671 A   | 20090929      | LSAS        | B25F | ENTRY OF CHANGE OF NAME AND/OR HEADQUARTER AND TRANSFER OF APPLICATION, PATENT AND CERTIF. OF ADDITION OF INVENTION: CHANGE OF NAME ON REQUIREMENT | PARTYTYPE : OWNER<br>OWNER : DANIEL MONTGOMERY AND SON LIMITED (GB)<br>OLDPARTY : A FIM DE ATENDER A ALTERACAO DE NOME SOLICITADA NA PETICAO NO 020070000417/RJ DE 02/01/2007, CUJO CUMPRIMENTO DE EXIGENCIA FOI APRESENTADO VIA PETICAO NO 020080055384/RJ DE 14/04/2008, RATIFICA-SE A EXIGENCIA ANTERIORMENTE FORMULADA UMA VEZ QUE ESTA NAO FOI CUMPRIDA. APRESENTAR O DOCUMENTO DE ALTERACAO DE NOME COM A LEGALIZACAO CONSULAR. A DOCUMENTACAO APRESENTADA NO CUMPRIMENTO DE EXIGENCIA ANTERIOR TRATA DE CESSAO E TRANSFERENCIA ENTRE |

|                |          |      |       |                                                                 |                                                                                                                                                                               |
|----------------|----------|------|-------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |          |      |       |                                                                 | PARTES AINDA ESTRANHA AOS AUTOS.                                                                                                                                              |
| BRPI0311671 A  | 20101221 | LSAS | B25D  | REQUESTED CHANGE OF NAME OF APPLICANT APPROVED                  | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES U.K. LIMITED (GB)<br>OLDPARTY : ALTERADOD E: DANIEL MONTGOMERY AND SON LIMITED                                                    |
| BRPI0311671 A  | 20110104 | LSAS | B25A  | REQUESTED TRANSFER OF RIGHTS APPROVED                           | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES PATENTS B.V. (NL)<br>OLDPARTY : TRANSFERIDO DE: GUALA CLOSURES U.K. LIMITED                                                       |
| BRPI0311671 A  | 20160614 | LSAS | B25G  | REQUESTED CHANGE OF HEADQUARTER APPROVED                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES PATENTS B.V. (NL)                                                                                                                 |
| BRPI0311671 A  | 20160628 | LSAS | B25G  | REQUESTED CHANGE OF HEADQUARTER APPROVED                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES PATENTS B.V. (NL)                                                                                                                 |
| BRPI0311671 A  | 20160712 | LSAS | B25G  | REQUESTED CHANGE OF HEADQUARTER APPROVED                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES PATENTS B.V. (NL)                                                                                                                 |
| BRPI0311671 A  | 20160726 | LSAS | B25A  | REQUESTED TRANSFER OF RIGHTS APPROVED                           | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES INTERNATIONAL B.V. (NL)                                                                                                           |
| BRPI0311671 A  | 20160927 | LSGT | B09A  | DECISION: INTENTION TO GRANT                                    |                                                                                                                                                                               |
| BRPI0311671 A  | 20161213 | LSGT | +B16A | PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED          | TEXT : PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 13/12/2016, OBSERVADAS AS CONDICICOES LEGAIS.                                                                    |
| BRPI0311671 B1 | 20161213 | LSGT | +     | granted / extensions (spc, cpc, pte)                            |                                                                                                                                                                               |
| CN100340459 C  | 20071003 | LSGT | +     | granted / extensions (spc, cpc, pte)                            |                                                                                                                                                                               |
| CN1659084 A    | 20050824 | LSPB | +     | published / reissued                                            |                                                                                                                                                                               |
| CN1659084 A    | 20050824 | LSPB | +C06  | PUBLICATION                                                     |                                                                                                                                                                               |
| CN1659084 A    | 20071003 | LSGT | +C14  | GRANT OF PATENT OR UTILITY MODEL                                |                                                                                                                                                                               |
| CN1659084 A    | 20080220 | LSLI | LIC   | PATENT LICENCE CONTRACT FOR EXPLOITATION SUBMITTED FOR RECORD   | DESCRIPTION : EXCLUSIVE LICENCE; TIME LIMIT OF IMPLEMENTING CONTACT: 2007.10.11 TO 2015.11.8<br>NAME OF REQUESTER : BEIJING GUALA CAPS CO., LTD.<br>EFFECTIVE DATE : 20071229 |
| CN1659084 A    | 20151028 | LSAS | C41   | TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL |                                                                                                                                                                               |
| DE60305490 D1  | 20070516 | LSOP | -8363 | OPPOSITION AGAINST THE PATENT                                   |                                                                                                                                                                               |
| DE60305490 D1  | 20070906 | LSAS | 8327  | CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER           | OWNER NAME : GUALA CLOSURES PATENTS B.V., AMSTERDAM, NL                                                                                                                       |
| DE60305490 D1  | 20101209 | LSOP | +8366 | RESTRICTED MAINTAINED AFTER OPPOSITION PROCEEDINGS              |                                                                                                                                                                               |
| DE60305490 T2  | 20061102 | LSGT | +     | granted / extensions (spc, cpc, pte)                            |                                                                                                                                                                               |
| DE60305490 T3  | 20110505 | LSGT | +     | granted / extensions (spc, cpc, pte)                            |                                                                                                                                                                               |
| EA006145 B1    | 20051027 | LSGT | +     | granted / extensions (spc, cpc, pte)                            |                                                                                                                                                                               |
| EA006145 B1    | 20070629 | LSRE | PC4A  | REGISTRATION OF TRANSFER OF A EURASIAN PATENT BY ASSIGNMENT     |                                                                                                                                                                               |
| EA006145 B1    | 20081030 | LSRV | -MH4D | REVOCATION OF A EURASIAN PATENT IN PART                         | DESIGNATED STATE(S) : BY                                                                                                                                                      |

|                |          |      |       |                                                                                                                          |                                                                                                                                                                                                         |
|----------------|----------|------|-------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EA006145 B1    | 20090630 | LSAS | TC4A  | CHANGE IN NAME OF A PATENT PROPRIETOR IN A EURASIAN PATENT                                                               | DESIGNATED STATE(S) : kz                                                                                                                                                                                |
| EA006145 B1    | 20160129 | LSRE | PD4A  | REGISTRATION OF TRANSFER OF A EURASIAN PATENT IN ACCORDANCE WITH THE SUCCESSION IN TITLE                                 |                                                                                                                                                                                                         |
| EA006145 B1    | 20160229 | LSLE | -MM4A | LAPSE OF A EURASIAN PATENT DUE TO NON-PAYMENT OF RENEWAL FEES WITHIN THE TIME LIMIT IN THE FOLLOWING DESIGNATED STATE(S) | DESIGNATED STATE(S) : AM KG MD TJ TM                                                                                                                                                                    |
| EA200401616 A1 | 20050630 | LSPB | +     | published / reissued                                                                                                     |                                                                                                                                                                                                         |
| EP1511677 A1   | 20050309 | LSPB | +     | published / reissued                                                                                                     |                                                                                                                                                                                                         |
| EP1511677 A1   | 20050309 | LSSE | +17P  | REQUEST FOR EXAMINATION FILED                                                                                            | EFFECTIVE DATE : 20041123                                                                                                                                                                               |
| EP1511677 A1   | 20051214 | LSAS | RAP1  | TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION                                                                        | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES U.K. LIMITED                                                                                                                                                |
| EP1511677 A1   | 20060405 | LSRE | RIN1  | INVENTOR (CORRECTION)                                                                                                    | PARTYTYPE : INVENTOR<br>INVENTOR : THOMSON, DAVID W.DANIEL MONTGOMERY & SON LIMITED                                                                                                                     |
| EP1511677 A1   | 20060524 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                    | COUNTRY OF REF DOCUMENT : AT<br>NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524 |
| EP1511677 A1   | 20060524 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                    | COUNTRY OF REF DOCUMENT : BE<br>NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524 |
| EP1511677 A1   | 20060524 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                    | COUNTRY OF REF DOCUMENT : CH<br>NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524 |
| EP1511677 A1   | 20060524 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                    | COUNTRY OF REF DOCUMENT : CZ<br>NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524 |
| EP1511677 A1   | 20060524 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                    | COUNTRY OF REF DOCUMENT : FI<br>NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524 |
| EP1511677 A1   | 20060524 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                    | COUNTRY OF REF DOCUMENT : LI<br>NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524 |
| EP1511677 A1   | 20060524 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO                                        | COUNTRY OF REF DOCUMENT : NL<br>NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION                                                                                                 |

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|--------------|----------|------|-------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | EPO                                                                                                                     | OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524                                                                                                                      |
| EP1511677 A1 | 20060524 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : SI<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524 |
| EP1511677 A1 | 20060524 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : SK<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524 |
| EP1511677 A1 | 20060524 | LSGT | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : GB<br>REF LEGAL EVENT CODE :<br>FG4D                                                                                                                                                                    |
| EP1511677 A1 | 20060531 | LSNP | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                                         |
| EP1511677 A1 | 20060628 | LSGT | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE :<br>FG4D                                                                                                                                                                    |
| EP1511677 A1 | 20060725 | LSNP | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : RO<br>REF LEGAL EVENT CODE : EPE                                                                                                                                                                        |
| EP1511677 A1 | 20060824 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : DK<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060824 |
| EP1511677 A1 | 20060824 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : SE<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060824 |
| EP1511677 A1 | 20061024 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING STATE<br>ANNOUNCED VIA<br>POSTGRANT INFORM.<br>FROM NAT. OFFICE TO<br>EPO                    | COUNTRY OF REF<br>DOCUMENT : PT<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR<br>TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061024 |
| EP1511677 A1 | 20061030 | LSNP | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : HU<br>REF LEGAL EVENT CODE :<br>AG4A<br>REF DOCUMENT NUMBER :<br>E000614<br>COUNTRY OF REF<br>DOCUMENT : HU                                                                                             |
| EP1511677 A1 | 20061101 | LSLE | -NLV1 | NL: LAPSED OR<br>ANNULLED DUE TO<br>FAILURE TO FULFILL<br>THE REQUIREMENTS OF<br>ART. 29P AND 29M OF<br>THE PATENTS ACT | REF COUNTRY CODE : EP                                                                                                                                                                                                      |
| EP1511677 A1 | 20061116 | LSGT | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE :<br>FG2A<br>REF DOCUMENT NUMBER :<br>2261945<br>COUNTRY OF REF<br>DOCUMENT : ES<br>KIND CODE OF REF<br>DOCUMENT : T3<br>DESIGNATED STATE(S) :                               |
| EP1511677 A1 | 20061130 | LSLE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                                         | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : PL                                                                                                                                                                         |

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|--------------|----------|------|-------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EP1511677 A1 | 20070401 | LSAS | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : PC2A                                                                                                                                                                 |
| EP1511677 A1 | 20070404 | LSOP | -26   | OPPOSITION FILED                                                                      | PARTYTYPE : OPPONENT<br>OPPONENT : INOSTRANNOYE UNITARNOYE PROIZVODSTVENNOYE PREDPRIY<br>EFFECTIVE DATE : 20070110                                                                                                   |
| EP1511677 A1 | 20070404 | LSOP | -26   | OPPOSITION FILED                                                                      | PARTYTYPE : OPPONENT<br>OPPONENT : COMPANIA DE TAPONES IRRELLENABLES, S.A.<br>EFFECTIVE DATE : 20070222                                                                                                              |
| EP1511677 A1 | 20070404 | LSOP | -26   | OPPOSITION FILED                                                                      | PARTYTYPE : OPPONENT<br>OPPONENT : DHEBER TECHNOLOGIES DIFFUSION S.L.R.<br>EFFECTIVE DATE : 20070223                                                                                                                 |
| EP1511677 A1 | 20070404 | LSAS | RAP2  | TRANSFER OF RIGHTS OF AN EP GRANTED PATENT                                            | PARTYTYPE : OWNER<br>OWNER : GUALA CLOSURES PATENTS B.V.                                                                                                                                                             |
| EP1511677 A1 | 20080131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : MC<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20070531                                                                                             |
| EP1511677 A1 | 20080430 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : GR<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060825               |
| EP1511677 A1 | 20080530 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : IE<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20070521                                                                                             |
| EP1511677 A1 | 20080731 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : EE<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524               |
| EP1511677 A1 | 20090831 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CY<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20060524               |
| EP1511677 A1 | 20090831 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LU<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20070521                                                                                             |
| EP1511677 A1 | 20101006 | LSRE | 27A   | MAINTAINED AS AMENDED                                                                 | EFFECTIVE DATE : 20101006                                                                                                                                                                                            |
| EP1511677 A1 | 20101228 | LSAS | REG   | REFERENCE TO A NATIONAL CODE                                                          | PARTYTYPE : OWNER<br>REF COUNTRY CODE : HU<br>OWNER : GUALA CLOSURES PATENTS B.V., NL<br>REF LEGAL EVENT CODE : HC9C<br>OLDPARTY : FORMER OWNER(S): GUALA CLOSURES U.K. LIMITED, GB; GUALA CLOSURES PATENTS B.V., NL |
| EP1511677 A1 | 20110217 | LSRE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE :                                                                                                                                                                      |

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|              |          |      |       |                                                       | DC2A<br>EFFECTIVE DATE : 20110207                                                                                                                                                                                                                                                        |
| EP1511677 A1 | 20150521 | LSFE | REG   | REFERENCE TO A<br>NATIONAL CODE                       | REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE :<br>PLFP<br>YEAR OF FEE PAYMENT : 13                                                                                                                                                                                                      |
| EP1511677 A1 | 20150903 | LSAS | REG   | REFERENCE TO A<br>NATIONAL CODE                       | PARTYTYPE : OWNER<br>REF COUNTRY CODE : DE<br>OWNER : GUALA CLOSURES<br>INTERNATIONAL B.V., NL<br>REF LEGAL EVENT CODE :<br>R081<br>REF DOCUMENT NUMBER :<br>60305490<br>COUNTRY OF REF<br>DOCUMENT : DE<br>OLDPARTY : FORMER<br>OWNER: GUALA CLOSURES<br>PATENTS B.V., AMSTERDAM,<br>NL |
| EP1511677 A1 | 20151001 | LSAS | REG   | REFERENCE TO A<br>NATIONAL CODE                       | PARTYTYPE : OWNER<br>REF COUNTRY CODE : ES<br>OWNER : GUALA CLOSURES<br>INTERNATIONAL B.V.<br>REF LEGAL EVENT CODE :<br>PC2A<br>EFFECTIVE DATE : 20150925                                                                                                                                |
| EP1511677 A1 | 20160520 | LSFE | REG   | REFERENCE TO A<br>NATIONAL CODE                       | REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE :<br>PLFP<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                      |
| EP1511677 A1 | 20160729 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE  | COUNTRY OF REF<br>DOCUMENT : BG<br>PAYMENT DATE : 20160512<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                   |
| EP1511677 A1 | 20160729 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE  | COUNTRY OF REF<br>DOCUMENT : ES<br>PAYMENT DATE : 20160512<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                   |
| EP1511677 A1 | 20160729 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE  | COUNTRY OF REF<br>DOCUMENT : GB<br>PAYMENT DATE : 20160520<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                   |
| EP1511677 A1 | 20160729 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE  | COUNTRY OF REF<br>DOCUMENT : DE<br>PAYMENT DATE : 20160520<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                   |
| EP1511677 A1 | 20160831 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE  | COUNTRY OF REF<br>DOCUMENT : FR<br>PAYMENT DATE : 20160520<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                   |
| EP1511677 A1 | 20160831 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE  | COUNTRY OF REF<br>DOCUMENT : HU<br>PAYMENT DATE : 20160519<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                   |
| EP1511677 A1 | 20160831 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE  | COUNTRY OF REF<br>DOCUMENT : IT<br>PAYMENT DATE : 20160525<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                   |
| EP1511677 A1 | 20160831 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE  | COUNTRY OF REF<br>DOCUMENT : TR<br>PAYMENT DATE : 20160421<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                   |
| EP1511677 A1 | 20160831 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE  | COUNTRY OF REF<br>DOCUMENT : RO<br>PAYMENT DATE : 20160425<br>YEAR OF FEE PAYMENT : 14                                                                                                                                                                                                   |
| EP1511677 B1 | 20060524 | LSGT | +     | granted / extensions<br>(spc, cpc, pte)               |                                                                                                                                                                                                                                                                                          |
| EP1511677 B2 | 20101006 | LSGT | +     | granted / extensions<br>(spc, cpc, pte)               |                                                                                                                                                                                                                                                                                          |
| ES2261945 T3 | 20061116 | LSGT | +     | granted / extensions<br>(spc, cpc, pte)               |                                                                                                                                                                                                                                                                                          |
| GB2390086 A1 | 20031231 | LSPB | +     | published / reissued                                  |                                                                                                                                                                                                                                                                                          |
| GB2390086 A1 | 20070314 | LSWD | -WAP  | APPLICATION<br>WITHDRAWN, TAKEN TO<br>BE WITHDRAWN OR |                                                                                                                                                                                                                                                                                          |

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|-----------------|----------|------|-------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |          |      |       | REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)  |                                                                                                                                                                                                       |
| IN03107CN2004 A | 20060217 | LSPB | +     | published / reissued                              |                                                                                                                                                                                                       |
| IN259691 B      | 20140328 | LSGT | +     | granted / extensions (spc, cpc, pte)              |                                                                                                                                                                                                       |
| KR100985342 B1  | 20101004 | LSGT | +     | granted / extensions (spc, cpc, pte)              |                                                                                                                                                                                                       |
| KR100985342 B1  | 20080507 | LSES | A201  | REQUEST FOR EXAMINATION                           |                                                                                                                                                                                                       |
| KR100985342 B1  | 20100326 | LSES | -E902 | NOTIFICATION OF REASON FOR REFUSAL                |                                                                                                                                                                                                       |
| KR100985342 B1  | 20100902 | LSGT | +E701 | DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT |                                                                                                                                                                                                       |
| KR100985342 B1  | 20100928 | LSGT | +GRNT | WRITTEN DECISION TO GRANT                         |                                                                                                                                                                                                       |
| KR100985342 B1  | 20130830 | LSFE | FPAY  | ANNUAL FEE PAYMENT                                | PAYMENT DATE : 20130902<br>YEAR OF FEE PAYMENT : 4                                                                                                                                                    |
| KR100985342 B1  | 20140918 | LSFE | FPAY  | ANNUAL FEE PAYMENT                                | PAYMENT DATE : 20140919<br>YEAR OF FEE PAYMENT : 5                                                                                                                                                    |
| KR100985342 B1  | 20150918 | LSFE | FPAY  | ANNUAL FEE PAYMENT                                | PAYMENT DATE : 20150918<br>YEAR OF FEE PAYMENT : 6                                                                                                                                                    |
| KR20050028918 A | 20050323 | LSPB | +     | published / reissued                              |                                                                                                                                                                                                       |
| MXPA04012131 A1 | 20050524 | LSPB | +     | published / reissued                              |                                                                                                                                                                                                       |
| MXPA04012131 A1 | 20061215 | LSGT | +FG   | GRANT OR REGISTRATION                             |                                                                                                                                                                                                       |
| MXPA04012131 A1 | 20070404 | LSAS | HC    | CHANGE OF COMPANY NAME OR JURIDICAL STATUS        |                                                                                                                                                                                                       |
| MXPA04012131 A1 | 20070913 | LSAS | GB    | TRANSFER OR ASSIGNMENT                            |                                                                                                                                                                                                       |
| MXPA04012131 A1 | 20080919 | LSLI | GD    | LICENCE GRANTED                                   |                                                                                                                                                                                                       |
| PL200301 B1     | 20081231 | LSGT | +     | granted / extensions (spc, cpc, pte)              |                                                                                                                                                                                                       |
| PL372495 A1     | 20050725 | LSPB | +     | published / reissued                              |                                                                                                                                                                                                       |
| US2005115915 AA | 20050602 | LSPB | +     | published / reissued                              |                                                                                                                                                                                                       |
| US7398890 BB    | 20080715 | LSGT | +     | granted / extensions (spc, cpc, pte)              |                                                                                                                                                                                                       |
| US7398890 BB    | 20050208 | LSAS | AS    | ASSIGNMENT                                        | OWNER NAME : DANIEL MONTGOMERY AND SON LIMITED, SCOTLAND<br>DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:THOMSON, DAVID WILLIAM;<br>REEL/FRAME:016243/0386<br>EFFECTIVE DATE : 20041203   |
| US7398890 BB    | 20060822 | LSAS | AS    | ASSIGNMENT                                        | OWNER NAME : GUALA CLOSURES U.K. LIMITED, UNITED KINGDOM<br>DESCRIPTION : CHANGE OF NAME; ASSIGNOR:DANIEL MONTGOMERY AND SON LIMITED;<br>REEL/FRAME:018148/0020<br>EFFECTIVE DATE : 20050712          |
| US7398890 BB    | 20070116 | LSAS | AS    | ASSIGNMENT                                        | OWNER NAME : GUALA CLOSURES PATENTS B.V., NETHERLANDS<br>DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:GUALA CLOSURES U.K. LIMITED;<br>REEL/FRAME:018797/0199<br>EFFECTIVE DATE : 20060809 |
| US7398890 BB    | 20120103 | LSFE | +FPAY | FEE PAYMENT                                       | YEAR OF FEE PAYMENT : 4                                                                                                                                                                               |
| US7398890 BB    | 20150819 | LSAS | AS    | ASSIGNMENT                                        | OWNER NAME : GUALA CLOSURES PATENTS B.V., NETHERLANDS<br>DESCRIPTION : CHANGE OF NAME; ASSIGNOR:GUALA PATENTS B.V.;<br>REEL/FRAME:036362/0651<br>EFFECTIVE DATE : 19981029                            |

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| US7398890 BB  | 20150819 | LSAS | AS    | ASSIGNMENT                                     | OWNER NAME : GUALA CLOSURES INTERNATIONAL B.V., NETHERLANDS<br>DESCRIPTION : MERGER AND CHANGE OF NAME;<br>ASSIGNORS:GUALA CLOSURES PATENTS B.V.;<br>GUALA CLOSURES INTERNATIONAL B.V.;<br>REEL/FRAME:036362/0754<br>EFFECTIVE DATE : 20150620 |
| US7398890 BB  | 20150819 | LSAS | AS    | ASSIGNMENT                                     | OWNER NAME : GUALA CLOSURES PATENTS B.V., NETHERLANDS<br>DESCRIPTION : CHANGE OF ADDRESS; ASSIGNOR:GUALA CLOSURES PATENTS B.V.;<br>REEL/FRAME:036396/0661<br>EFFECTIVE DATE : 20150301                                                         |
| US7398890 BB  | 20160105 | LSFE | +FPAY | FEE PAYMENT                                    | YEAR OF FEE PAYMENT : 8                                                                                                                                                                                                                        |
| WO03104100 A1 | 20031218 | LSPB | +     | published / reissued                           |                                                                                                                                                                                                                                                |
| WO03104100 A1 | 20041123 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : 2003735804<br>COUNTRY OF REF DOCUMENT : EP                                                                                                                                                                               |
| WO03104100 A1 | 20041203 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : PA/A/2004/012131<br>COUNTRY OF REF DOCUMENT : MX                                                                                                                                                                         |
| WO03104100 A1 | 20041206 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : 11005198<br>COUNTRY OF REF DOCUMENT : US                                                                                                                                                                                 |
| WO03104100 A1 | 20041208 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : 372495<br>COUNTRY OF REF DOCUMENT : PL                                                                                                                                                                                   |
| WO03104100 A1 | 20041209 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : 1020047020052<br>COUNTRY OF REF DOCUMENT : KR                                                                                                                                                                            |
| WO03104100 A1 | 20041210 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : 2003236886<br>COUNTRY OF REF DOCUMENT : AU                                                                                                                                                                               |
| WO03104100 A1 | 20041210 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : 20038135795<br>COUNTRY OF REF DOCUMENT : CN                                                                                                                                                                              |
| WO03104100 A1 | 20050309 | LSPB | +WWP  | WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE | REF DOCUMENT NUMBER : 2003735804<br>COUNTRY OF REF DOCUMENT : EP                                                                                                                                                                               |
| WO03104100 A1 | 20050323 | LSPB | +WWP  | WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE | REF DOCUMENT NUMBER : 1020047020052<br>COUNTRY OF REF DOCUMENT : KR                                                                                                                                                                            |
| WO03104100 A1 | 20060524 | LSGT | +WWG  | WIPO INFORMATION: GRANT IN NATIONAL OFFICE     | REF DOCUMENT NUMBER : 2003735804<br>COUNTRY OF REF DOCUMENT : EP                                                                                                                                                                               |
| WO03104100 A1 | 20060711 | LSNE | NENP  | NON-ENTRY INTO THE NATIONAL PHASE IN:          | REF COUNTRY CODE : JP                                                                                                                                                                                                                          |
| WO03104100 A1 | 20060711 | LSWD | -WWW  | WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : JP                                                                                                                                                                                                                   |
| WO03104100 A1 | 20080304 | LSNP | ENP   | ENTRY INTO THE NATIONAL PHASE IN:              | REF DOCUMENT NUMBER : PI0311671<br>COUNTRY OF REF DOCUMENT : BR                                                                                                                                                                                |

**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 in a first position such that the first body 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:**

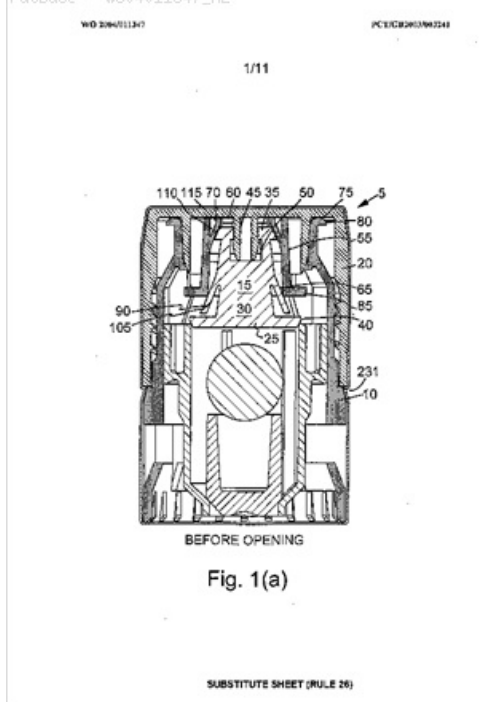
**International (IPC 8-9):** B65D49/04 B65D55/02 (Advanced/Invention); B65D49/00 B65D55/02 (Core/Invention)

**International (IPC 1-7):** B65D49/04 B65D55/02

**CPC:** B65D49/04 B65D55/02

**European:** B65D49/04 B65D55/02

PatBase - WO04011347\_A2



**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): MONTGOMERY DANIEL AND SON LTD ; THOMSON DAVID WILLIAM ; MONTGOMERY DANIEL AND SON CO LTD ; DANIEL MONTGOMERY AND SON LTD ; GUALA CLOSURES U K LTD

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

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

**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     | 20050921 | LSPB | +C06  | PUBLICATION                                                                                                              |                                                                                                                                                                               |
| CN1323908 C     | 20070704 | LSGT | +C14  | GRANT OF PATENT OR UTILITY MODEL                                                                                         |                                                                                                                                                                               |
| CN1323908 C     | 20070815 | LSAS | ASS   | SUCCESSION OR ASSIGNMENT OF PATENT RIGHT                                                                                 | OWNER NAME : GUALA CAPS PATENT CO., LTD.<br>DESCRIPTION : FORMER OWNER: GUALA CLOSURES BRITISH CO., LTD.<br>EFFECTIVE DATE : 20070713                                         |
| 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                                                            | DESCRIPTION : EXCLUSIVE LICENCE; TIME LIMIT OF IMPLEMENTING CONTACT: 2007.10.11 TO 2015.11.8<br>NAME OF REQUESTER : BEIJING GUALA CAPS CO., LTD.<br>EFFECTIVE DATE : 20071229 |
| CN1323908 C     | 20151028 | LSAS | C41   | TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL                                                          |                                                                                                                                                                               |
| CN1671604 A     | 20050921 | LSPB | +     | published / reissued                                                                                                     |                                                                                                                                                                               |
| EA006807 B1     | 20060428 | LSGT | +     | granted / extensions (spc, cpc, pte)                                                                                     |                                                                                                                                                                               |
| EA006807 B1     | 20051229 | LSAS | HC1A  | CHANGE IN NAME OF AN APPLICANT IN A EURASIAN APPLICATION                                                                 |                                                                                                                                                                               |
| 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) | DESIGNATED STATE(S)<br>: AM KG MD TJ TM                                                                                                                                       |
| 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 ASSIGNMENT                                                                                                   |                                                                                                                                                                               |
| MXPA05000956 A1 | 20080318 | LSGT | +FG   | GRANT OR REGISTRATION                                                                                                    |                                                                                                                                                                               |
| MXPA05000956 A1 | 20080919 | LSLI | GD    | LICENCE GRANTED                                                                                                          |                                                                                                                                                                               |
| WO04011347 A2   | 20040205 | LSPB | +     | published / reissued                                                                                                     |                                                                                                                                                                               |
| WO04011347 A3   | 20050124 | LSNP | ENP   | ENTRY INTO THE NATIONAL PHASE IN:                                                                                        | REF DOCUMENT NUMBER : 200550006<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : A                                                                              |
| WO04011347 A3   | 20050124 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE                                                                              | REF DOCUMENT NUMBER : P200550006<br>COUNTRY OF REF DOCUMENT : ES                                                                                                              |
| WO04011347 A3   | 20050124 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE                                                                              | REF DOCUMENT NUMBER : PA/A/2005/000956<br>COUNTRY OF REF DOCUMENT : MX                                                                                                        |
| WO04011347 A3   | 20050131 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE                                                                              | REF DOCUMENT NUMBER : 20038182831<br>COUNTRY OF REF                                                                                                                           |

|               |          |      |      |                                                |                                                                                                  |
|---------------|----------|------|------|------------------------------------------------|--------------------------------------------------------------------------------------------------|
| DOCUMENT : CN |          |      |      |                                                |                                                                                                  |
| WO04011347 A3 | 20060721 | LSNE | NENP | NON-ENTRY INTO THE NATIONAL PHASE IN:          | REF COUNTRY CODE : JP                                                                            |
| WO04011347 A3 | 20060721 | LSWD | -WWW | WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : JP                                                                     |
| WO04011347 A3 | 20061216 | LSPB | +WWP | WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE | REF DOCUMENT NUMBER : 200550006<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : A |
| WO04011347 A3 | 20080101 | LSGT | +WWG | WIPO INFORMATION: GRANT IN NATIONAL OFFICE     | REF DOCUMENT NUMBER : 200550006<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : A |

**Title:** MEANS FOR SEALING BOTTLE CAPS WITH EVIDENCE OF OPENING

**Abstract:** Source: US2009289027A The present invention consists of an improvement made on the patent "Means for sealing bottle caps with evidence of opening" with Spanish application number P200202864, which made use of a concealed tongue that was revealed after the first opening without allowing to recover the original situation. The present invention maintains a connection between the top and bottom segments of the capsule, preventing their rotation relative to each other and providing an audible evidence of opening.

**Classifications:**

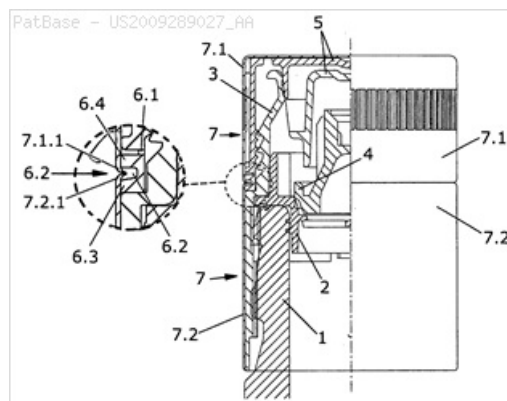
**International (IPC 8-9):** B65D39/00 B65D41/00 B65D41/34 B65D41/62 B65D49/00 B65D49/02 B65D49/04 B65D50/00 B65D50/04 B65D51/20 B65D53/00 B65D53/02 (Advanced/Invention); B65D41/00 B65D41/34 B65D49/00 B65D50/00 B65D53/00 (Core/Invention)

**International (IPC 1-7):** B65D41/34 B65D49/02 B65D49/04 B65D50/00 B65D50/04 B65D51/20

**CPC:** B65D49/04 B65D2101/0023 B65D2101/0084 B65D41/348 B65D41/62 B65D51/18 B65D55/028 B65D2251/0015 B65D2251/0078 B65D41/3452 B65D41/3457 B65D51/20

**European:** B65D41/34D1A B65D41/34D3 B65D41/34F B65D41/62 B65D49/04 B65D51/18 B65D51/20 B65D55/02J L65D101/00A3 L65D101/00A6 L65D251/00Y2D L65D251/00Y6D

**US:** 215/21 215/250 215/251 215/252 215/253 215/256 215/329 215/352



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT345283 E         | 20061215         | AT20030780176T     | 20031212         |
| AT515454 E         | 20110715         | AT20070823020T     | 20071026         |
| AU2003288277 AA    | 20040709         | AU20030288277      | 20031212         |
| AU2003288277 BB    | 20070614         | AU20030288277      | 20031212         |
| BRPI0316573 A      | 20051004         | BR2003PI16573      | 20031212         |
| BRPI0316573 B1     | 20151222         | BR2003PI16573      | 20031212         |
| BRPI0716329 A2     | 20140304         | BR2007PI16329      | 20071026         |
| CN100343136 C      | 20071017         | CN200380106047     | 20031212         |
| CN101573274 A      | 20091104         | CN200780039886     | 20071026         |
| CN1726154 A        | 20060125         | CN200380106047     | 20031212         |
| CO5690626 A2       | 20061031         | CO20050053166      | 20050601         |
| CU23799 A3         | 20120315         | CU20090000063      | 20090422         |
| DE602007015689 D1  | 20110901         | DE200760015689T    | 20071026         |
| DE60309751 D1      | 20061228         | DE20036009751      | 20031212         |
| EA006088 B1        | 20050825         | EA20030001237      | 20031211         |
| EA013202 B1        | 20100430         | EA20070002086      | 20071025         |
| EA200301237 A1     | 20040624         | EA20030001237      | 20031211         |
| EA200702086 A1     | 20080630         | EA20070002086      | 20071025         |
| EP1602591 A1       | 20051207         | EP20030780176      | 20031212         |
| EP1602591 B1       | 20061115         | EP20030780176      | 20031212         |
| EP2093156 A1       | 20090826         | EP20070823020      | 20071026         |
| EP2093156 B1       | 20110706         | EP20070823020      | 20071026         |
| ES2234378 AA       | 20050616         | ES20020002864      | 20021213         |
| ES2234378 BB       | 20051216         | ES20020002864      | 20021213         |
| ES2274292 T3       | 20070516         | ES20030780176T     | 20031212         |
| ES2298073 AA       | 20080501         | ES20060002732      | 20061026         |
| ES2298073 BB       | 20090201         | ES20060002732      | 20061026         |
| ES2369196 T3       | 20111128         | ES20070823020T     | 20071026         |
| IN00988KN2005 A    | 20060623         | IN2005KN00988      | 20050526         |
| IN02630DN2009 A    | 20090619         | IN2009DN02630      | 20090422         |
| IN222941 B         | 20080829         | IN2005KN00988      | 20050526         |
| MX2009004455 A1    | 20090909         | MX20090004455      | 20071026         |
| MXPA05005980 A1    | 20050823         | MX2005PA05980      | 20031212         |
| RU2009119428 A     | 20101210         | RU20090119428      | 20071026         |
| RU2427514 C2       | 20110827         | RU20090119428      | 20071026         |
| US2009289027 AA    | 20091126         | US20070446986      | 20071026         |
| US8181803 BB       | 20120522         | US20070446986      | 20071026         |
| WO04054890 A1      | 20040701         | WO2003ES00627      | 20031212         |
| WO08049951 A1      | 20080502         | WO2007ES00614      | 20071026         |
| WO08049951 B1      | 20080703         | WO2007ES00614      | 20071026         |
| WO08049951 C1      | 20081127         | WO2007ES00614      | 20071026         |

**Priority:**

EP20070823020 20071026 ES20020002864 20021213 ES20060002732 20061026  
WO2007ES00614 20071026 WO2003ES00627 20031212

**Probable Assignee:** COMPANIA DE TAPONES IRRELLENABLES SA

**Assignee(s):** (std): CIA DE TAPONES IRRELLENABLES SA ; CIA TAPONES IRRELLENABLES S A ; TORRENT GARCIA DAVID ; TORRENT ; CIA DE TAPONES IRRELLENABLES S ; CIA DE TAPONES IRRELLENABLES S A ; TAPONES IRRELLENABLES ; TORRENT ORTEGA DAVID ; KOMPANIA DE TAPONES IRREJENABLES S A

**Assignee(s):** KOMPANIA DE TAPONES IRREJENABLES SA ; CIA TAPONES IRRELLENABLES SA ; COMPANIA DE TAPONES IRRELLENABLES SA ; CIA DE TAPONES IRRELLENABLES S TORRENT GARCIA DAVI ; COMPANIA DE TAPONES IRRELLENABLES S A

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

**Agent(s):** SPRUSON AND FERGUSON; MARTIN SANTOS VICTORIA SOFIA; ABG PATENTES S L; DENNIS G LAPOINTE LAPOINTE LAW GROUP PL; MOORE AND VAN ALLEN PLLC; ANDREW D; TRISTAN A; ESTEBAN PEREZ SERRANO Mª ISABEL

**Designated states:** AE AG AL AM 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 YU ZA ZM ZW

**Legal status (INPADOC)**

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| Patent          | Date recorded | Event group | Code  | Event                                                                                       | Details                                                                                                                                                                                                                                                                   |
|-----------------|---------------|-------------|-------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AT345283 E      | 20061215      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                        |                                                                                                                                                                                                                                                                           |
| AT345283 E      | 20070515      | LSLE        | -RER  | CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES                             |                                                                                                                                                                                                                                                                           |
| AT515454 E      | 20110715      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                        |                                                                                                                                                                                                                                                                           |
| AT515454 E      | 20120115      | LSLE        | -RER  | CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES                             |                                                                                                                                                                                                                                                                           |
| AU2003288277 AA | 20040709      | LSPB        | +     | published / reissued                                                                        |                                                                                                                                                                                                                                                                           |
| AU2003288277 AA | 20071011      | LSGT        | +FGA  | LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)                                          |                                                                                                                                                                                                                                                                           |
| AU2003288277 AA | 20100708      | LSLE        | -MK14 | PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED                              |                                                                                                                                                                                                                                                                           |
| AU2003288277 BB | 20070614      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                        |                                                                                                                                                                                                                                                                           |
| BRPI0316573 A   | 20051004      | LSPB        | +     | published / reissued                                                                        |                                                                                                                                                                                                                                                                           |
| BRPI0316573 A   | 20151013      | LSGT        | B09A  | DECISION: INTENTION TO GRANT                                                                |                                                                                                                                                                                                                                                                           |
| BRPI0316573 A   | 20151222      | LSGT        | +B16A | PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED                                      | DESCRIPTION : PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 22/12/2015, OBSERVADAS AS CONDICICOES LEGAIS.                                                                                                                                                         |
| BRPI0316573 B1  | 20151222      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                        |                                                                                                                                                                                                                                                                           |
| BRPI0716329 A2  | 20140304      | LSPB        | +     | published / reissued                                                                        |                                                                                                                                                                                                                                                                           |
| BRPI0716329 A2  | 20150825      | LSFE        | -B08F | APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW                         | DESCRIPTION : REFERENTE A 8A ANUIDADE.                                                                                                                                                                                                                                    |
| BRPI0716329 A2  | 20160510      | LSLE        | -B08K | LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87) | DESCRIPTION : EM VIRTUDE DO ARQUIVAMENTO PUBLICADO NA RPI 2329 DE 25-08-2015 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. |
| CN100343136 C   | 20071017      | LSGT        | +     | granted / extensions (spc, cpc, pte)                                                        |                                                                                                                                                                                                                                                                           |

|                |          |       |       |                                                                                                                                                        |                                                                                                                                                                                                                    |
|----------------|----------|-------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CN101573274 A  | 20091104 | LSPB  | +     | published /<br>reissued                                                                                                                                |                                                                                                                                                                                                                    |
| CN101573274 A  | 20091104 | LSPB  | +C06  | PUBLICATION                                                                                                                                            |                                                                                                                                                                                                                    |
| CN101573274 A  | 20110727 | LSDW  | -C02  | DEEMED<br>WITHDRAWAL<br>OF PATENT<br>APPLICATION<br>AFTER<br>PUBLICATION<br>(PATENT LAW<br>2001)                                                       |                                                                                                                                                                                                                    |
| CN1726154 A    | 20060125 | LSPB  | +     | published /<br>reissued                                                                                                                                |                                                                                                                                                                                                                    |
| CN1726154 A    | 20060125 | LSPB  | +C06  | PUBLICATION                                                                                                                                            |                                                                                                                                                                                                                    |
| CN1726154 A    | 20071017 | LSGT  | +C14  | GRANT OF<br>PATENT OR<br>UTILITY<br>MODEL                                                                                                              |                                                                                                                                                                                                                    |
| CN1726154 A    | 20130220 | LSLE  | -C17  | CESSATION OF<br>PATENT RIGHT                                                                                                                           |                                                                                                                                                                                                                    |
| CO5690626 A2   | 20061031 | LSPB  | +     | published /<br>reissued                                                                                                                                |                                                                                                                                                                                                                    |
| CO5690626 A2   | 20090227 | LSGT  | +FG   | APPLICATION<br>GRANTED                                                                                                                                 |                                                                                                                                                                                                                    |
| CU23799 A3     | 20120315 | LSGT  | +     | granted /<br>extensions<br>(spc, cpc, pte)                                                                                                             |                                                                                                                                                                                                                    |
| CU23799 A3     | 20120323 | LSGT  | +FG   | GRANT OF<br>PATENT                                                                                                                                     |                                                                                                                                                                                                                    |
| CU23799 A3     | 20150428 | LSLE  | -FD   | LAPSE (FOR<br>NOT PAYING<br>FEES)                                                                                                                      |                                                                                                                                                                                                                    |
| DE60309751 D1  | 20071018 | LSLE  | -8339 | CEASED/NON-<br>PAYMENT OF<br>THE ANNUAL<br>FEE                                                                                                         |                                                                                                                                                                                                                    |
| EA006088 B1    | 20050825 | LSGT  | +     | granted /<br>extensions<br>(spc, cpc, pte)                                                                                                             |                                                                                                                                                                                                                    |
| EA013202 B1    | 20100430 | LSGT  | +     | granted /<br>extensions<br>(spc, cpc, pte)                                                                                                             |                                                                                                                                                                                                                    |
| EA013202 B1    | 20120730 | LSLE  | -MM4A | LAPSE OF A<br>EURASIAN<br>PATENT DUE TO<br>NON-PAYMENT<br>OF RENEWAL<br>FEES WITHIN<br>THE TIME LIMIT<br>IN THE<br>FOLLOWING<br>DESIGNATED<br>STATE(S) | DESIGNATED STATE(S) : RU                                                                                                                                                                                           |
| EA013202 B1    | 20150730 | LSLE  | -MM4A | LAPSE OF A<br>EURASIAN<br>PATENT DUE TO<br>NON-PAYMENT<br>OF RENEWAL<br>FEES WITHIN<br>THE TIME LIMIT<br>IN THE<br>FOLLOWING<br>DESIGNATED<br>STATE(S) | DESIGNATED STATE(S) : AM AZ BY KZ KG<br>MD TJ TM                                                                                                                                                                   |
| EA200301237 A1 | 20040624 | LSPB  | +     | published /<br>reissued                                                                                                                                |                                                                                                                                                                                                                    |
| EA200702086 A1 | 20080630 | LSPB  | +     | published /<br>reissued                                                                                                                                |                                                                                                                                                                                                                    |
| EP1602591 A1   | 20051207 | LSPB  | +     | published /<br>reissued                                                                                                                                |                                                                                                                                                                                                                    |
| EP1602591 A1   | 20051207 | LSSES | +17P  | REQUEST FOR<br>EXAMINATION<br>FILED                                                                                                                    | EFFECTIVE DATE : 20050629                                                                                                                                                                                          |
| EP1602591 A1   | 20061115 | LSLE  | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                                          | COUNTRY OF REF DOCUMENT : CH<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1   | 20061115 | LSLE  | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED                                                                                                       | COUNTRY OF REF DOCUMENT : CZ<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION                                                                                    |

|              |          |      |       |                                                                                                               |                                                                                                                                                                                                                    |
|--------------|----------|------|-------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                                                     | OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115                                                                                                                                    |
| EP1602591 A1 | 20061115 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : FI<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20061115 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : LI<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20061115 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : NL<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20061115 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : RO<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20061115 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : SI<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20061115 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : SK<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20061115 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : AT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20061115 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : BE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20061115 | LSGT | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : GB<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                               |
| EP1602591 A1 | 20061215 | LSNP | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                                 |
| EP1602591 A1 | 20061229 | LSGT | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                               |
| EP1602591 A1 | 20061231 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : MC<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE<br>FEES<br>LAPSED DATE : 20061231                                                                                     |
| EP1602591 A1 | 20070215 | LSLE | -PG25 | LAPSED IN A                                                                                                   | COUNTRY OF REF DOCUMENT : BG                                                                                                                                                                                       |

|              |          |      |       |                                                                                                                                  |                                                                                                                                                                                                                    |
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|              |          |      |       | CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                                   | NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20070215                                 |
| EP1602591 A1 | 20070215 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                    | COUNTRY OF REF DOCUMENT : DK<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20070215 |
| EP1602591 A1 | 20070215 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                    | COUNTRY OF REF DOCUMENT : SE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20070215 |
| EP1602591 A1 | 20070416 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                    | COUNTRY OF REF DOCUMENT : PT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20070416 |
| EP1602591 A1 | 20070501 | LSLE | -NLV1 | NL: LAPSED OR<br>ANNULLED DUE<br>TO FAILURE TO<br>FULFILL THE<br>REQUIREMENTS<br>OF ART. 29P<br>AND 29M OF<br>THE PATENTS<br>ACT | REF COUNTRY CODE : EP                                                                                                                                                                                              |
| EP1602591 A1 | 20070516 | LSGT | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                                               | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : FG2A<br>REF DOCUMENT NUMBER : 2274292<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : T3<br>DESIGNATED STATE(S) :                                   |
| EP1602591 A1 | 20070531 | LSLE | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                                               | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : PL                                                                                                                                                                 |
| EP1602591 A1 | 20070703 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                    | COUNTRY OF REF DOCUMENT : DE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE<br>FEES<br>LAPSED DATE : 20070703                                                                                     |
| EP1602591 A1 | 20071024 | LSGT | +26N  | NO<br>OPPOSITION<br>FILED                                                                                                        | EFFECTIVE DATE : 20070817                                                                                                                                                                                          |
| EP1602591 A1 | 20080430 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                    | COUNTRY OF REF DOCUMENT : FR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20070629 |
| EP1602591 A1 | 20080430 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                    | COUNTRY OF REF DOCUMENT : GR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20070216 |
| EP1602591 A1 | 20080630 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                    | COUNTRY OF REF DOCUMENT : EE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20080731 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE                                                                                              | COUNTRY OF REF DOCUMENT : HU<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A                                                                                                                      |

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|              |          |      |       | ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                                        | TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20070516                                                                                                  |
| EP1602591 A1 | 20080731 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : LU<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE<br>FEES<br>LAPSED DATE : 20061212                                                                                     |
| EP1602591 A1 | 20081128 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : CY<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20081128 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : FR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A<br>TRANSLATION OF THE DESCRIPTION<br>OR TO PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20061115 |
| EP1602591 A1 | 20090831 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : IT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE<br>FEES<br>LAPSED DATE : 20071212                                                                                     |
| EP1602591 A1 | 20110729 | LSRE | +PGRI | POSTGRANT:<br>PATENT<br>REINSTATED IN<br>CONTRACTING<br>STATE                                                 | COUNTRY OF REF DOCUMENT : IT<br>REINSTATED DATE : 20110616                                                                                                                                                         |
| EP1602591 A1 | 20150130 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : TR<br>PAYMENT DATE : 20141120<br>YEAR OF FEE PAYMENT : 12                                                                                                                                |
| EP1602591 A1 | 20150430 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : IT<br>PAYMENT DATE : 20141223<br>YEAR OF FEE PAYMENT : 12                                                                                                                                |
| EP1602591 A1 | 20160129 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : GB<br>PAYMENT DATE : 20151229<br>YEAR OF FEE PAYMENT : 13                                                                                                                                |
| EP1602591 A1 | 20160129 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : IE<br>PAYMENT DATE : 20151231<br>YEAR OF FEE PAYMENT : 13                                                                                                                                |
| EP1602591 A1 | 20160229 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : ES<br>PAYMENT DATE : 20151130<br>YEAR OF FEE PAYMENT : 13                                                                                                                                |
| EP1602591 A1 | 20161230 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | COUNTRY OF REF DOCUMENT : IT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE<br>FEES<br>LAPSED DATE : 20151212                                                                                     |
| EP1602591 A1 | 20170131 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : GB<br>PAYMENT DATE : 20161228<br>YEAR OF FEE PAYMENT : 14                                                                                                                                |
| EP1602591 A1 | 20170131 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | COUNTRY OF REF DOCUMENT : IE<br>PAYMENT DATE : 20161229<br>YEAR OF FEE PAYMENT : 14                                                                                                                                |
| EP1602591 A1 | 20170228 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL                                                              | COUNTRY OF REF DOCUMENT : ES<br>PAYMENT DATE : 20161205<br>YEAR OF FEE PAYMENT : 14                                                                                                                                |

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| EP1602591 A1 | 20170428 | LSFE  | +PGFP | OFFICE<br>POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                          | COUNTRY OF REF DOCUMENT : TR<br>PAYMENT DATE : 20161124<br>YEAR OF FEE PAYMENT : 14                                                                                                                    |
| EP1602591 B1 | 20061115 | LSGT  | +     | granted /<br>extensions<br>(spc, cpc, pte)                                                                    |                                                                                                                                                                                                        |
| EP2093156 A1 | 20090826 | LSPB  | +     | published /<br>reissued                                                                                       |                                                                                                                                                                                                        |
| EP2093156 A1 | 20090826 | LSSES | +17P  | REQUEST FOR<br>EXAMINATION<br>FILED                                                                           | EFFECTIVE DATE : 20090519                                                                                                                                                                              |
| EP2093156 A1 | 20110706 | LSGT  | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : GB<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                   |
| EP2093156 A1 | 20110715 | LSNP  | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                     |
| EP2093156 A1 | 20110803 | LSGT  | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                   |
| EP2093156 A1 | 20110901 | LSPB  | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R096<br>REF DOCUMENT NUMBER :<br>602007015689<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20110901                                             |
| EP2093156 A1 | 20111026 | LSRV  | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : NL<br>REF LEGAL EVENT CODE : VDEP<br>EFFECTIVE DATE : 20110706                                                                                                                      |
| EP2093156 A1 | 20111031 | LSFE  | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : IE<br>PAYMENT DATE : 20110830<br>YEAR OF FEE PAYMENT : 05                                                                                                                           |
| EP2093156 A1 | 20111128 | LSGT  | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : FG2A<br>REF DOCUMENT NUMBER : 2369196<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : T3<br>EFFECTIVE DATE : 20111128                   |
| EP2093156 A1 | 20111130 | LSLE  | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : SI<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20111130 | LSFE  | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : ES<br>PAYMENT DATE : 20110926<br>YEAR OF FEE PAYMENT : 05                                                                                                                           |
| EP2093156 A1 | 20120115 | LSRV  | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : AT<br>REF LEGAL EVENT CODE : MK05<br>REF DOCUMENT NUMBER : 515454<br>COUNTRY OF REF DOCUMENT : AT<br>KIND CODE OF REF DOCUMENT : T<br>EFFECTIVE DATE : 20110706                     |
| EP2093156 A1 | 20120229 | LSLE  | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : NL<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120229 | LSLE  | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : SE<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120229 | LSLE  | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM                          | REF COUNTRY CODE : PT<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20111107 |

|              |          |      |       |                                                                                                               |                                                                                                                                                                                                        |
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|              |          |      |       | NAT. OFFICE<br>TO EPO                                                                                         |                                                                                                                                                                                                        |
| EP2093156 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : PL<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : AT<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : GR<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20111007 |
| EP2093156 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : CY<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : BE<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : IS<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20111106 |
| EP2093156 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : LT<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : LV<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : CZ<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : EE<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA                                                       | REF COUNTRY CODE : MC<br>DESCRIPTION : LAPSE BECAUSE OF<br>NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20111031                                                                                        |

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|              |          |      |       | POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                                                            |                                                                                                                                                                                                        |
| EP2093156 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : FI<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : RO<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : SK<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120531 | LSLE | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : PL                                                                                                                                                     |
| EP2093156 A1 | 20120613 | LSGT | +26N  | NO<br>OPPOSITION<br>FILED                                                                                     | EFFECTIVE DATE : 20120411                                                                                                                                                                              |
| EP2093156 A1 | 20120629 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : DK<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20120720 | LSLE | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE : ST<br>EFFECTIVE DATE : 20120629                                                                                                                        |
| EP2093156 A1 | 20120731 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : LI<br>DESCRIPTION : LAPSE BECAUSE OF<br>NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20111031                                                                                        |
| EP2093156 A1 | 20120731 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : DE<br>DESCRIPTION : LAPSE BECAUSE OF<br>NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20120501                                                                                        |
| EP2093156 A1 | 20120731 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : CH<br>DESCRIPTION : LAPSE BECAUSE OF<br>NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20111031                                                                                        |
| EP2093156 A1 | 20120802 | LSRE | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R097<br>REF DOCUMENT NUMBER :<br>602007015689<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20120411                                             |
| EP2093156 A1 | 20120816 | LSDW | REG   | REFERENCE TO<br>A NATIONAL<br>CODE                                                                            | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R119<br>REF DOCUMENT NUMBER :<br>602007015689<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20120501                                             |
| EP2093156 A1 | 20120831 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA                                                       | REF COUNTRY CODE : FR<br>DESCRIPTION : LAPSE BECAUSE OF<br>NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20111102                                                                                        |

|              |          |      |       |                                                                                                               | POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO                                                                                                                                                     |
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| EP2093156 A1 | 20130131 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : IE<br>PAYMENT DATE : 20121025<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130131 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : IE<br>PAYMENT DATE : 20121025<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130228 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : GB<br>PAYMENT DATE : 20121025<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130228 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : IT<br>PAYMENT DATE : 20121023<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130228 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : TR<br>PAYMENT DATE : 20121005<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130228 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : GB<br>PAYMENT DATE : 20121025<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130228 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : ES<br>PAYMENT DATE : 20121009<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130228 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : ES<br>PAYMENT DATE : 20121009<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130228 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : IT<br>PAYMENT DATE : 20121023<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130228 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO<br>NATIONAL<br>OFFICE                                                    | REF COUNTRY CODE : TR<br>PAYMENT DATE : 20121005<br>YEAR OF FEE PAYMENT : 06                                                                                                                           |
| EP2093156 A1 | 20130329 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : MT<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20130531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : LU<br>DESCRIPTION : LAPSE BECAUSE OF<br>NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20111026                                                                                        |
| EP2093156 A1 | 20130628 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : BG<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20111006 |
| EP2093156 A1 | 20131031 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED<br>VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE<br>TO EPO | REF COUNTRY CODE : HU<br>DESCRIPTION : LAPSE BECAUSE OF<br>FAILURE TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO PAY<br>THE FEE WITHIN THE PRESCRIBED<br>TIME-LIMIT<br>EFFECTIVE DATE : 20110706 |
| EP2093156 A1 | 20131031 | LSFE | +PGFP | POSTGRANT:<br>ANNUAL FEES<br>PAID TO                                                                          | REF COUNTRY CODE : ES<br>PAYMENT DATE : 20130909<br>YEAR OF FEE PAYMENT : 07                                                                                                                           |

|              |          |       |       |                                                                                       |                                                                                                              |
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| EP2093156 A1 | 20140131 | LSFE  | +PGFP | NATIONAL OFFICE<br>POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                     | REF COUNTRY CODE : IE<br>PAYMENT DATE : 20131025<br>YEAR OF FEE PAYMENT : 07                                 |
| EP2093156 A1 | 20140131 | LSFE  | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | REF COUNTRY CODE : GB<br>PAYMENT DATE : 20131028<br>YEAR OF FEE PAYMENT : 07                                 |
| EP2093156 A1 | 20140228 | LSFE  | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | REF COUNTRY CODE : TR<br>PAYMENT DATE : 20131004<br>YEAR OF FEE PAYMENT : 07                                 |
| EP2093156 A1 | 20140228 | LSFE  | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | REF COUNTRY CODE : IT<br>PAYMENT DATE : 20131023<br>YEAR OF FEE PAYMENT : 07                                 |
| EP2093156 A1 | 20150624 | LSLE  | -GBPC | GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE                         | EFFECTIVE DATE : 20141026                                                                                    |
| EP2093156 A1 | 20150729 | LSLE  | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : MM4A                                                         |
| EP2093156 A1 | 20150731 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | REF COUNTRY CODE : GB<br>DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20141026 |
| EP2093156 A1 | 20150831 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | REF COUNTRY CODE : IT<br>DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20141026 |
| EP2093156 A1 | 20151030 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | REF COUNTRY CODE : IE<br>DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20141026 |
| EP2093156 A1 | 20160129 | LSLE  | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : FD2A<br>EFFECTIVE DATE : 20160129                            |
| EP2093156 A1 | 20160429 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | REF COUNTRY CODE : ES<br>DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>EFFECTIVE DATE : 20141027 |
| EP2093156 B1 | 20110706 | LSGT  | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                              |
| ES2234378 AA | 20050616 | LSPB  | +     | published / reissued                                                                  |                                                                                                              |
| ES2234378 AA | 20050616 | LSSES | +EC2A | SEARCH REPORT PUBLISHED                                                               | DATE OF REF DOCUMENT : 20050616<br>KIND CODE OF REF DOCUMENT : A1                                            |
| ES2234378 AA | 20051216 | LSGT  | +FG2A | DEFINITIVE PROTECTION                                                                 | REF DOCUMENT NUMBER : 2234378B2<br>COUNTRY OF REF DOCUMENT : ES                                              |
| ES2234378 BB | 20051216 | LSGT  | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                              |
| ES2274292 T3 | 20070516 | LSGT  | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                              |
| ES2298073 AA | 20080501 | LSPB  | +     | published / reissued                                                                  |                                                                                                              |

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|-----------------|----------|------|-------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ES2298073 AA    | 20080501 | LSES | +EC2A | SEARCH REPORT PUBLISHED                          | DATE OF REF DOCUMENT : 20080501<br>KIND CODE OF REF DOCUMENT : A1                                                                                                                                     |
| ES2298073 AA    | 20090201 | LSGT | +FG2A | DEFINITIVE PROTECTION                            | REF DOCUMENT NUMBER : 2298073B2<br>COUNTRY OF REF DOCUMENT : ES                                                                                                                                       |
| ES2298073 BB    | 20090201 | LSGT | +     | granted / extensions (spc, cpc, pte)             |                                                                                                                                                                                                       |
| ES2369196 T3    | 20111128 | LSGT | +     | granted / extensions (spc, cpc, pte)             |                                                                                                                                                                                                       |
| IN00988KN2005 A | 20060623 | LSPB | +     | published / reissued                             |                                                                                                                                                                                                       |
| IN02630DN2009 A | 20090619 | LSPB | +     | published / reissued                             |                                                                                                                                                                                                       |
| IN222941 B      | 20080829 | LSGT | +     | granted / extensions (spc, cpc, pte)             |                                                                                                                                                                                                       |
| MX2009004455 A1 | 20090909 | LSPB | +     | published / reissued                             |                                                                                                                                                                                                       |
| MX2009004455 A1 | 20120418 | LSGT | +FG   | GRANT OR REGISTRATION                            |                                                                                                                                                                                                       |
| MXPA05005980 A1 | 20050823 | LSPB | +     | published / reissued                             |                                                                                                                                                                                                       |
| MXPA05005980 A1 | 20080131 | LSGT | +FG   | GRANT OR REGISTRATION                            |                                                                                                                                                                                                       |
| RU2009119428 A  | 20101210 | LSPB | +     | published / reissued                             |                                                                                                                                                                                                       |
| RU2427514 C2    | 20110827 | LSGT | +     | granted / extensions (spc, cpc, pte)             |                                                                                                                                                                                                       |
| RU2427514 C2    | 20150820 | LSLE | -MM4A | THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES | EFFECTIVE DATE : 20141027                                                                                                                                                                             |
| US2009289027 AA | 20091126 | LSPB | +     | published / reissued                             |                                                                                                                                                                                                       |
| US2009289027 AA | 20090424 | LSAS | AS    | ASSIGNMENT                                       | OWNER NAME : COMPANIA DE TAPONES IRRELLENABLES, S.A., SPAIN<br>DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST;<br>ASSIGNOR:TORRENT ORTEGA, DAVID; REEL/FRAME:022590/0500<br>EFFECTIVE DATE : 20090423 |
| US8181803 BB    | 20120522 | LSGT | +     | granted / extensions (spc, cpc, pte)             |                                                                                                                                                                                                       |
| US8181803 BB    | 20090424 | LSAS | AS    | ASSIGNMENT                                       | OWNER NAME : COMPANIA DE TAPONES IRRELLENABLES, S.A., SPAIN<br>DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST;<br>ASSIGNOR:TORRENT ORTEGA, DAVID; REEL/FRAME:022590/0500<br>EFFECTIVE DATE : 20090423 |
| US8181803 BB    | 20120502 | LSGT | PAT1  | Patented Case                                    |                                                                                                                                                                                                       |
| US8181803 BB    | 20151123 | LSFE | +FPAY | FEE PAYMENT                                      | YEAR OF FEE PAYMENT : 4                                                                                                                                                                               |
| WO04054890 A1   | 20040701 | LSPB | +     | published / reissued                             |                                                                                                                                                                                                       |
| WO04054890 A1   | 20050603 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE      | REF DOCUMENT NUMBER : PA/A/2005/005980<br>COUNTRY OF REF DOCUMENT : MX                                                                                                                                |
| WO04054890 A1   | 20050610 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE      | REF DOCUMENT NUMBER : 2003288277<br>COUNTRY OF REF DOCUMENT : AU                                                                                                                                      |
| WO04054890 A1   | 20050613 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE      | REF DOCUMENT NUMBER : 20038A60476<br>COUNTRY OF REF DOCUMENT : CN                                                                                                                                     |
| WO04054890 A1   | 20050617 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL            | REF DOCUMENT NUMBER : 1-2005-501167<br>COUNTRY OF REF DOCUMENT : PH                                                                                                                                   |

|               |          |      |      |                                                                  |                                                                                                                                   |
|---------------|----------|------|------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| WO04054890 A1 | 20050629 | LSNP | +WWE | PHASE<br>WIPO<br>INFORMATION:<br>ENTRY INTO<br>NATIONAL<br>PHASE | REF DOCUMENT NUMBER :<br>2003780176<br>COUNTRY OF REF DOCUMENT : EP                                                               |
| WO04054890 A1 | 20051004 | LSNP | ENP  | ENTRY INTO<br>THE NATIONAL<br>PHASE IN:                          | REF DOCUMENT NUMBER :<br>PI0316573<br>COUNTRY OF REF DOCUMENT : BR                                                                |
| WO04054890 A1 | 20051207 | LSPB | +WWP | WIPO<br>INFORMATION:<br>PUBLISHED IN<br>NATIONAL<br>OFFICE       | REF DOCUMENT NUMBER :<br>2003780176<br>COUNTRY OF REF DOCUMENT : EP                                                               |
| WO04054890 A1 | 20060331 | LSNP | +WWE | WIPO<br>INFORMATION:<br>ENTRY INTO<br>NATIONAL<br>PHASE          | REF DOCUMENT NUMBER :<br>PA/A/2006/003702<br>COUNTRY OF REF DOCUMENT : MX                                                         |
| WO04054890 A1 | 20061113 | LSNE | NENP | NON-ENTRY<br>INTO THE<br>NATIONAL<br>PHASE IN:                   | REF COUNTRY CODE : JP                                                                                                             |
| WO04054890 A1 | 20061113 | LSWD | -WWW | WIPO<br>INFORMATION:<br>WITHDRAWN IN<br>NATIONAL<br>OFFICE       | COUNTRY OF REF DOCUMENT : JP                                                                                                      |
| WO04054890 A1 | 20061115 | LSGT | +WWG | WIPO<br>INFORMATION:<br>GRANT IN<br>NATIONAL<br>OFFICE           | REF DOCUMENT NUMBER :<br>2003780176<br>COUNTRY OF REF DOCUMENT : EP                                                               |
| WO04054890 A1 | 20070927 | LSGT | +WWG | WIPO<br>INFORMATION:<br>GRANT IN<br>NATIONAL<br>OFFICE           | REF DOCUMENT NUMBER :<br>2003288277<br>COUNTRY OF REF DOCUMENT : AU                                                               |
| WO08049951 A1 | 20080502 | LSPB | +    | published /<br>reissued                                          |                                                                                                                                   |
| WO08049951 C1 | 20090424 | LSNP | +WWE | WIPO<br>INFORMATION:<br>ENTRY INTO<br>NATIONAL<br>PHASE          | REF DOCUMENT NUMBER : 12446986<br>COUNTRY OF REF DOCUMENT : US                                                                    |
| WO08049951 C1 | 20090428 | LSNE | NENP | NON-ENTRY<br>INTO THE<br>NATIONAL<br>PHASE IN:                   | REF COUNTRY CODE : DE                                                                                                             |
| WO08049951 C1 | 20090526 | LSNP | ENP  | ENTRY INTO<br>THE NATIONAL<br>PHASE IN:                          | REF DOCUMENT NUMBER :<br>2009119428<br>COUNTRY OF REF DOCUMENT : RU<br>KIND CODE OF REF DOCUMENT : A                              |
| WO08049951 C1 | 20140304 | LSNP | ENP  | ENTRY INTO<br>THE NATIONAL<br>PHASE IN:                          | REF DOCUMENT NUMBER :<br>PI0716329<br>COUNTRY OF REF DOCUMENT : BR<br>KIND CODE OF REF DOCUMENT : A2<br>EFFECTIVE DATE : 20090424 |

**Title:** CLOSING DEVICE FOR BOTTLES AND, IN PARTICULAR, FOR BOTTLES OF ALCOHOL OR SPIRIT

**Abstract:** Closing device (100) for bottles, of the type comprising a cap (1) consisting of a top portion (7) and a side portion (8), a pourer (2) suitable for coupling with said cap (1) and for being fastened to the neck of a bottle (5), and a covering liner (4) divided into a top portion (4') and a bottom portion (4'') / joined together along a predetermined breaking line (6), said cap (1) comprising at least one closing tab (9) joined to the top portion (7) of the cap (1), which can take up a first position, of assembly of said closing device (100), in which said closing tab (9) does not interfere with the coupling between said cap (1) and said pourer (2) and a second security position following the first time said device (100) is opened, in which said closing tab (9) interferes with said pourer (2) preventing said device (100) from being completely closed again.

**Classifications:**

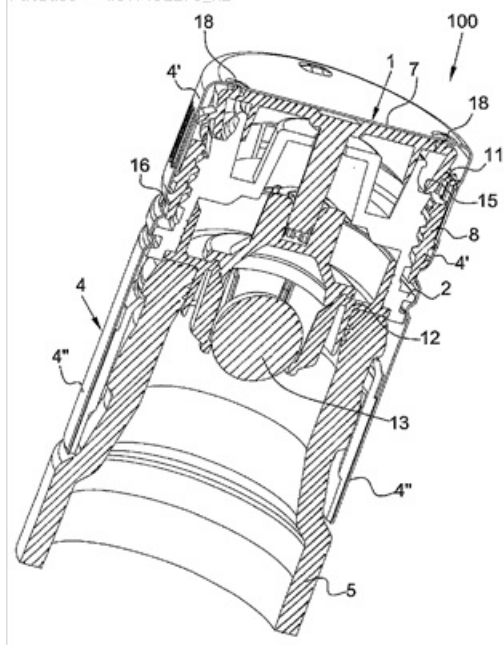
**International (IPC 8-9):** B65D49/04 B65D55/02 (Advanced/Invention);  
B65D49/00 B65D55/02 (Core/Invention)

**International (IPC 1-7):** B65D49/04

**CPC:** B65D49/04 B65D55/02

**European:** B65D49/04 B65D55/02

PatBase - WO07091173\_A2



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT441600 E         | 20090915         | AT20070705584T     | 20070205         |
| DE602007002279 D1  | 20091015         | DE200760002279T    | 20070205         |
| EA013177 B1        | 20100226         | EA20080001093      | 20070205         |
| EA200801093 A1     | 20081230         | EA20080001093      | 20070205         |
| EP1981774 A2       | 20081022         | EP20070705584      | 20070205         |
| EP1981774 B1       | 20090902         | EP20070705584      | 20070205         |
| ES2333481 T3       | 20100222         | ES20070705584T     | 20070205         |
| IN02391CN2008 A    | 20090306         | IN2008CN02391      | 20080514         |
| IN254712 B         | 20121214         | IN2008CN02391      | 20080514         |
| ITMI20060247 A1    | 20070811         | IT2006MI00247      | 20060210         |
| TR200802153 T1     | 20080623         | TR20080002153T     | 20070205         |
| WO07091173 A2      | 20070816         | WO2007IB00344      | 20070205         |
| WO07091173 A3      | 20071018         | WO2007IB00344      | 20070205         |

**Priority:**

IT2006MI00247 20060210 WO2007IB00344 20070205

**Probable Assignee:** FABIANO NICOLA

**Assignee(s):** (std): FABIANO NICOLA

**Assignee(s):** NICOLA FABIANO

**Inventor(s):** (std): FABIANO NICOLA

**Inventor(s):** NICOLA FABIANO

**Agent(s):** DE GREGORI ANTONELLA

**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 ZA ZM ZW

**Legal status (INPADOC)**

[View legal status timeline](#)

| Patent     | Date recorded | Event group | Code | Event                                                       | Details                                                       |
|------------|---------------|-------------|------|-------------------------------------------------------------|---------------------------------------------------------------|
| AT441600 E | 20090915      | LSGT        | +    | granted / extensions (spc, cpc, pte)                        |                                                               |
| AT441600 E | 20100315      | LSPB        | +UEP | PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION | REF DOCUMENT NUMBER : 1981774<br>COUNTRY OF REF DOCUMENT : EP |

|                   |          |      |       |                                                                                                          |                                                                                                                                                                                                          |
|-------------------|----------|------|-------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DE602007002279 D1 | 20100923 | LSGT | +8364 | NO OPPOSITION DURING TERM OF OPPOSITION                                                                  |                                                                                                                                                                                                          |
| EA013177 B1       | 20100226 | LSGT | +     | granted / extensions (spc, cpc, pte)                                                                     |                                                                                                                                                                                                          |
| EA200801093 A1    | 20081230 | LSPB | +     | published / reissued                                                                                     |                                                                                                                                                                                                          |
| EP1981774 A2      | 20081022 | LSPB | +     | published / reissued                                                                                     |                                                                                                                                                                                                          |
| EP1981774 A2      | 20081022 | LSES | +17P  | REQUEST FOR EXAMINATION FILED                                                                            | EFFECTIVE DATE : 20080417                                                                                                                                                                                |
| EP1981774 A2      | 20090915 | LSNP | REG   | REFERENCE TO A NATIONAL CODE                                                                             | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                       |
| EP1981774 A2      | 20090930 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                                             | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                     |
| EP1981774 A2      | 20091130 | LSNP | REG   | REFERENCE TO A NATIONAL CODE                                                                             | REF COUNTRY CODE : RO<br>REF LEGAL EVENT CODE : EPE                                                                                                                                                      |
| EP1981774 A2      | 20100127 | LSRE | REG   | REFERENCE TO A NATIONAL CODE                                                                             | REF COUNTRY CODE : GR<br>REF LEGAL EVENT CODE : EP<br>REF DOCUMENT NUMBER : 20090403012<br>COUNTRY OF REF DOCUMENT : GR                                                                                  |
| EP1981774 A2      | 20100129 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                    | COUNTRY OF REF DOCUMENT : LT<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902 |
| EP1981774 A2      | 20100129 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                    | COUNTRY OF REF DOCUMENT : SE<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902 |
| EP1981774 A2      | 20100201 | 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                                                                                                                                                                                    |
| EP1981774 A2      | 20100222 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                                             | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : FG2A<br>REF DOCUMENT NUMBER : 2333481<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : T3<br>DESIGNATED STATE(S) :                         |
| EP1981774 A2      | 20100225 | LSRV | -LTIE | LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION                                                  | REF COUNTRY CODE : EP<br>EFFECTIVE DATE : 20090902                                                                                                                                                       |
| EP1981774 A2      | 20100226 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                    | COUNTRY OF REF DOCUMENT : NL<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902 |
| EP1981774 A2      | 20100226 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                    | COUNTRY OF REF DOCUMENT : LV<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902 |
| EP1981774 A2      | 20100226 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED                                                                  | COUNTRY OF REF DOCUMENT : SI<br>NOTIFICATION OF LAPSE :                                                                                                                                                  |

|              |          |      |       |                                                                                                      |                                                                                                                                                                                                                            |
|--------------|----------|------|-------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO                                                  | LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO<br>PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902                                                               |
| EP1981774 A2 | 20100329 | LSNP | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      | REF COUNTRY CODE : HU<br>REF LEGAL EVENT CODE :<br>AG4A<br>REF DOCUMENT NUMBER :<br>E006893<br>COUNTRY OF REF DOCUMENT<br>: HU                                                                                             |
| EP1981774 A2 | 20100331 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: CY<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO<br>PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902 |
| EP1981774 A2 | 20100430 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: EE<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO<br>PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902 |
| EP1981774 A2 | 20100430 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: IS<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO<br>PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20100102 |
| EP1981774 A2 | 20100430 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: PT<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO<br>PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20100104 |
| EP1981774 A2 | 20100531 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: SK<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO<br>PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902 |
| EP1981774 A2 | 20100730 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: DK<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO<br>PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902 |
| EP1981774 A2 | 20100811 | LSGT | +26N  | NO OPPOSITION<br>FILED                                                                               | EFFECTIVE DATE : 20100603                                                                                                                                                                                                  |
| EP1981774 A2 | 20101029 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: MC<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF NON-<br>PAYMENT OF DUE FEES<br>LAPSED DATE : 20100301                                                                                       |
| EP1981774 A2 | 20110131 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: IE<br>NOTIFICATION OF LAPSE :<br>LAPSE BECAUSE OF NON-<br>PAYMENT OF DUE FEES<br>LAPSED DATE : 20100205                                                                                       |
| EP1981774 A2 | 20110531 | LSRE | +PGRI | POSTGRANT: PATENT<br>REINSTATED IN<br>CONTRACTING<br>STATE                                           | COUNTRY OF REF DOCUMENT<br>: IT<br>REINSTATED DATE :<br>20110501                                                                                                                                                           |

|              |          |      |       |                                                                                                      |                                                                                                                                                                                                                          |
|--------------|----------|------|-------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EP1981774 A2 | 20110729 | LSRE | +PGRI | POSTGRANT: PATENT<br>REINSTATED IN<br>CONTRACTING<br>STATE                                           | COUNTRY OF REF DOCUMENT<br>: IT<br>REINSTATED DATE :<br>20110501                                                                                                                                                         |
| EP1981774 A2 | 20110930 | LSLE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : PL                                                                                                                                                                       |
| EP1981774 A2 | 20111031 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: CH<br>NOTIFICATIONOFLAPSE :<br>LAPSE BECAUSE OF NON-<br>PAYMENT OF DUE FEES<br>LAPSED DATE : 20110228                                                                                       |
| EP1981774 A2 | 20111031 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: LI<br>NOTIFICATIONOFLAPSE :<br>LAPSE BECAUSE OF NON-<br>PAYMENT OF DUE FEES<br>LAPSED DATE : 20110228                                                                                       |
| EP1981774 A2 | 20120928 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: LU<br>NOTIFICATIONOFLAPSE :<br>LAPSE BECAUSE OF NON-<br>PAYMENT OF DUE FEES<br>LAPSED DATE : 20100205                                                                                       |
| EP1981774 A2 | 20121031 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: TR<br>NOTIFICATIONOFLAPSE :<br>LAPSE BECAUSE OF FAILURE<br>TO SUBMIT A TRANSLATION<br>OF THE DESCRIPTION OR TO<br>PAY THE FEE WITHIN THE<br>PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20090902 |
| EP1981774 A2 | 20140430 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE                                                 | COUNTRY OF REF DOCUMENT<br>: FI<br>PAYMENT DATE : 20140211<br>YEAR OF FEE PAYMENT : 8                                                                                                                                    |
| EP1981774 A2 | 20151030 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE ANNOUNCED<br>VIA POSTGRANT<br>INFORM. FROM NAT.<br>OFFICE TO EPO | COUNTRY OF REF DOCUMENT<br>: FI<br>NOTIFICATIONOFLAPSE :<br>LAPSE BECAUSE OF NON-<br>PAYMENT OF DUE FEES<br>LAPSED DATE : 20150205                                                                                       |
| EP1981774 A2 | 20160229 | LSFE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                      | COUNTRY OF REF DOCUMENT<br>: FR<br>REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE :<br>PLFP<br>YEAR OF FEE PAYMENT : 10                                                                                                   |
| EP1981774 A2 | 20160429 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE                                                 | COUNTRY OF REF DOCUMENT<br>: IT<br>PAYMENT DATE : 20160217<br>YEAR OF FEE PAYMENT : 10                                                                                                                                   |
| EP1981774 A2 | 20160429 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE                                                 | COUNTRY OF REF DOCUMENT<br>: ES<br>PAYMENT DATE : 20160216<br>YEAR OF FEE PAYMENT : 10                                                                                                                                   |
| EP1981774 A2 | 20160429 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE                                                 | COUNTRY OF REF DOCUMENT<br>: BG<br>PAYMENT DATE : 20160229<br>YEAR OF FEE PAYMENT : 10                                                                                                                                   |
| EP1981774 A2 | 20160429 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE                                                 | COUNTRY OF REF DOCUMENT<br>: CZ<br>PAYMENT DATE : 20160107<br>YEAR OF FEE PAYMENT : 10                                                                                                                                   |
| EP1981774 A2 | 20160429 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE                                                 | COUNTRY OF REF DOCUMENT<br>: DE<br>PAYMENT DATE : 20160224<br>YEAR OF FEE PAYMENT : 10                                                                                                                                   |
| EP1981774 A2 | 20160531 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE                                                 | COUNTRY OF REF DOCUMENT<br>: AT<br>PAYMENT DATE : 20160217<br>YEAR OF FEE PAYMENT : 10                                                                                                                                   |
| EP1981774 A2 | 20160531 | LSFE | +PGFP | POSTGRANT: ANNUAL<br>FEES PAID TO<br>NATIONAL OFFICE                                                 | COUNTRY OF REF DOCUMENT<br>: RO<br>PAYMENT DATE : 20160114<br>YEAR OF FEE PAYMENT : 10                                                                                                                                   |

|                 |          |      |       |                                                |                                                                                                                  |
|-----------------|----------|------|-------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| EP1981774 A2    | 20160531 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : FR<br>PAYMENT DATE : 20160229<br>YEAR OF FEE PAYMENT : 10                              |
| EP1981774 A2    | 20160531 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : GB<br>PAYMENT DATE : 20160222<br>YEAR OF FEE PAYMENT : 10                              |
| EP1981774 A2    | 20160531 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : BE<br>PAYMENT DATE : 20160218<br>YEAR OF FEE PAYMENT : 10                              |
| EP1981774 A2    | 20160531 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : PL<br>PAYMENT DATE : 20160107<br>YEAR OF FEE PAYMENT : 10                              |
| EP1981774 A2    | 20160531 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : HU<br>PAYMENT DATE : 20160113<br>YEAR OF FEE PAYMENT : 10                              |
| EP1981774 A2    | 20160531 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : GR<br>PAYMENT DATE : 20160224<br>YEAR OF FEE PAYMENT : 10                              |
| EP1981774 A2    | 20170220 | LSFE | REG   | REFERENCE TO A NATIONAL CODE                   | COUNTRY OF REF DOCUMENT : FR<br>REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE : PLFP<br>YEAR OF FEE PAYMENT : 11 |
| EP1981774 A2    | 20170428 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : DE<br>PAYMENT DATE : 20170210<br>YEAR OF FEE PAYMENT : 11                              |
| EP1981774 A2    | 20170428 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : RO<br>PAYMENT DATE : 20170125<br>YEAR OF FEE PAYMENT : 11                              |
| EP1981774 A2    | 20170428 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : FR<br>PAYMENT DATE : 20170220<br>YEAR OF FEE PAYMENT : 11                              |
| EP1981774 A2    | 20170428 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE | COUNTRY OF REF DOCUMENT : GR<br>PAYMENT DATE : 20170220<br>YEAR OF FEE PAYMENT : 11                              |
| EP1981774 B1    | 20090902 | LSGT | +     | granted / extensions (spc, cpc, pte)           |                                                                                                                  |
| ES2333481 T3    | 20100222 | LSGT | +     | granted / extensions (spc, cpc, pte)           |                                                                                                                  |
| IN02391CN2008 A | 20090306 | LSPB | +     | published / reissued                           |                                                                                                                  |
| IN254712 B      | 20121214 | LSGT | +     | granted / extensions (spc, cpc, pte)           |                                                                                                                  |
| ITMI20060247 A1 | 20070811 | LSPB | +     | published / reissued                           |                                                                                                                  |
| TR200802153 T1  | 20080623 | LSPB | +     | published / reissued                           |                                                                                                                  |
| WO07091173 A2   | 20070816 | LSPB | +     | published / reissued                           |                                                                                                                  |
| WO07091173 A3   | 20080417 | LSNP | +WWE  | WIPO INFORMATION: ENTRY INTO NATIONAL PHASE    | REF DOCUMENT NUMBER : 2007705584<br>COUNTRY OF REF DOCUMENT : EP                                                 |
| WO07091173 A3   | 20080812 | LSNE | NENP  | NON-ENTRY INTO THE NATIONAL PHASE IN:          | REF COUNTRY CODE : DE                                                                                            |

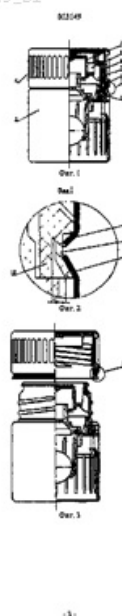
**Title:** SAFETY CAP FOR A BOTTLE

**Abstract:** Source: EA013149B The invention relates to closures for containers with liquids having a means of indicating of opening. A safety cap for a bottle includes a cover fastened by means of the thread on an outer bush, which is connected by edges to an inner bush forming the passes, a metal casing consisting of two parts, one part of which is installed on the cover, and another is installed on the outer bush. A checking indicator collar is made along the perimeter of the lower edge of the cover, the adjacent edges of the parts of the metal casing are folded in the checking indicator collar with the possibility of releasing one of the casing edges when the cover is being turned on. Along the perimeter of the lower edge of the cover from the inner part thereof on the level of the indicator collar an additional collar is made, which thickness exceeds the thickness of the indicator collar, and the indicator collar and the additional collar are made as a whole with the cover forming a gap between the edges of the indicator collar and the additional collar. The width of said gap, after the releasing one of the metal casing edges when the cover is being turned on, exceeds the width of said gap when the cover is initially closed. The invention provides to improve the reliability of the protection of the bottle from the adulteration of the content of the bottle corked up by the safety cap, and also to improve the reliability of the repeated closing in partial use of the liquid in the bottle.

**Classifications:**

**International (IPC 8-9):** B65D49/02 B65D50/00 (Advanced/Invention);  
B65D49/00 B65D50/00 (Core/Invention)

PatBase - EA013149\_B1



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| EA013149 B1        | 20100226         | EA20080000127      | 20080124         |
| EA200800127 A1     | 20081230         | EA20080000127      | 20080124         |
| RU67554 U1         | 20071027         | RU20070122762U     | 20070619         |

**Priority:**

RU20070122762 20070619 RU20070122762U 20070619

**Probable Assignee:** ZAKRYTOE AKTSIONERNOE OBSHEST

**Assignee(s):** (std): ZAKRYTOE AKTSIONERNOE OBSHEST

**Assignee(s):** ZAKRYTOE AKTSIONERNOE OBSHESTVO TEKHOLOGIYA

**Inventor(s):** (std): ZAETS VLADIMIR VLADIMIROVICH ; PROSKURNIA IVAN NIKOLAEVICH

**Legal status (INPADOC)**

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| Patent         | Date recorded | Event group | Code | Event                                                       | Details                                    |
|----------------|---------------|-------------|------|-------------------------------------------------------------|--------------------------------------------|
| EA013149 B1    | 20100226      | LSGT        | +    | granted / extensions (spc, cpc, pte)                        |                                            |
| EA013149 B1    | 20100630      | LSAS        | TC4A | CHANGE IN NAME OF A PATENT PROPRIETOR IN A EURASIAN PATENT  | DESIGNATED STATE(S) : AM AZ BY KG MD TJ TM |
| EA013149 B1    | 20111031      | LSRE        | PC4A | REGISTRATION OF TRANSFER OF A EURASIAN PATENT BY ASSIGNMENT |                                            |
| EA200800127 A1 | 20081230      | LSPB        | +    | published / reissued                                        |                                            |
| RU67554 U1     | 20071027      | LSGT        | +    | granted / extensions (spc, cpc, pte)                        |                                            |
| RU67554 U1     | 20100127      | LSAS        | PC1K | ASSIGNMENT OF UTILITY MODEL                                 | EFFECTIVE DATE : 20091215                  |
| RU67554 U1     | 20101210      | LSAS        | PD1K | CORRECTION OF NAME OF UTILITY MODEL OWNER                   |                                            |

**Title:** TAMPER-PROOF DEVICE FOR CLOSING BOTTLES

**Abstract:** A device (100) for closing bottles comprising a cap (1), consisting of a top portion (7) and a side portion (8), a diffusing group (2, 12), suitable for coupling at the top with the cap (1) and at the bottom with a neck of a bottle (5), and a covering case (4) for the device (100) divided into a top portion (4') and a bottom portion (4'') joined together along a breaking line (6), wherein the top portion (4') is coupled with the cap (1), and wherein the top portion (4') is mobile with respect to the cap (1) between a first assembly position, in which the top portion (4') entirely covers the side of the cap (1), and a second position, after the first time the device (100) has been opened, in which the top portion (4') partially covers the side of the cap (1) and is irreversibly firmly connected with it in such a partial covering position.

**Classifications:**

**International (IPC 8-9):** B65D41/62 B65D51/18

B65D55/02 (Advanced/Invention);

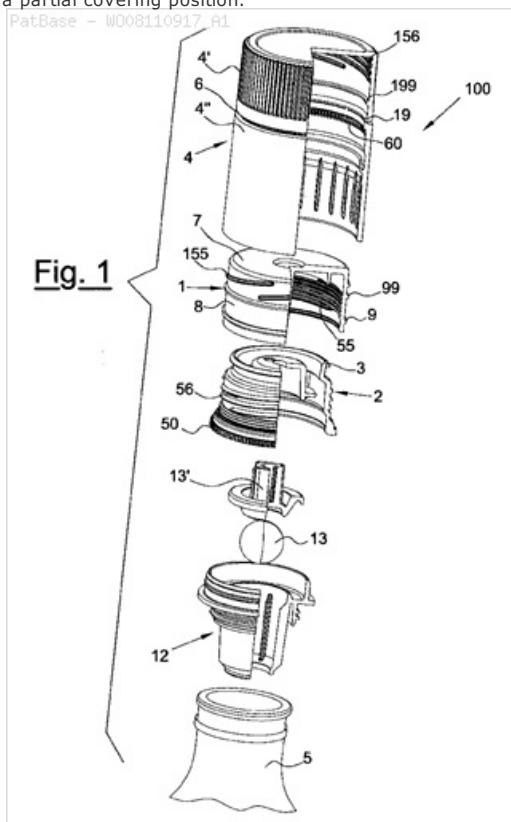
B65D41/00 B65D51/18 B65D55/02 (Core/Invention)

**CPC:** B65D55/026 B65D51/18 B65D55/02 B65D2101/0023

B65D2251/0015 B65D2251/0046 B65D2251/0087

**European:** B65D51/18 B65D55/02 L65D101/00A3 L65D251/00Y2D

L65D251/00Y4D L65D251/00Y6J

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| EA200901163 A1     | 20100430         | EA20090001163      | 20080310         |
| EP2125551 A1       | 20091202         | EP20080719326      | 20080310         |
| ITMI20070520 A1    | 20080916         | IT2007MI00520      | 20070315         |
| WO08110917 A1      | 20080918         | WO2008IB00638      | 20080310         |

**Priority:**

IT2007MI00520 20070315 WO2008IB00638 20080310

**Probable Assignee:** FABIANO NICOLA

**Assignee(s):** (std): FABIANO NICOLA

**Inventor(s):** (std): FABIANO NICOLA

**Agent(s):** DE GREGORI ANTONELLA; DE GREGORI ANTONELLA ET AL

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

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| Patent          | Date recorded | Event group | Code | Event                         | Details                   |
|-----------------|---------------|-------------|------|-------------------------------|---------------------------|
| EA200901163 A1  | 20100430      | LSPB        | +    | published / reissued          |                           |
| EP2125551 A1    | 20091202      | LSPB        | +    | published / reissued          |                           |
| EP2125551 A1    | 20091202      | LSES        | +17P | REQUEST FOR EXAMINATION FILED | EFFECTIVE DATE : 20090914 |
| EP2125551 A1    | 20140305      | LSDW        | -18D | DEEMED TO BE WITHDRAWN        | EFFECTIVE DATE : 20131001 |
| ITMI20070520 A1 | 20080916      | LSPB        | +    | published / reissued          |                           |
| WO08110917 A1   | 20080918      | LSPB        | +    | published / reissued          |                           |

|               |          |      |      |                                          |                          |
|---------------|----------|------|------|------------------------------------------|--------------------------|
| WO08110917 A1 | 20090916 | LSNE | NENP | NON-ENTRY INTO THE NATIONAL<br>PHASE IN: | REF COUNTRY CODE<br>: DE |
|---------------|----------|------|------|------------------------------------------|--------------------------|

**Title:** TAMPER-EVIDENT CLOSURE

**Abstract:** Source: US2011259844A A tamper-evident closure for a container is provided. The closure comprises a first portion including inner and outer parts, and a second portion. The outer part is movable relative to the inner part from a first position in which at least part of the first and second portions are adjacent each other, to a second position in which there is a gap therebetween. The first portion comprises locking means for irreversibly locking the closure in the second position upon first opening so that the gap cannot be closed. The outer part includes a top plate and at least part of the locking means is carried on or by the plate.

**Classifications:**

**International (IPC 8-9):** B65D41/34 B65D41/38 B65D47/02

B65D49/00 B65D49/02 B65D49/04 B65D51/20 B65D51/24

B65D55/02 (Advanced/Invention);

B65D41/34 B65D47/00 B65D49/00 B65D49/02 B65D51/24

B65D55/02 (Core/Invention);

B65D (Subclass/Invention)

**International (IPC 1-7):** B65D55/02

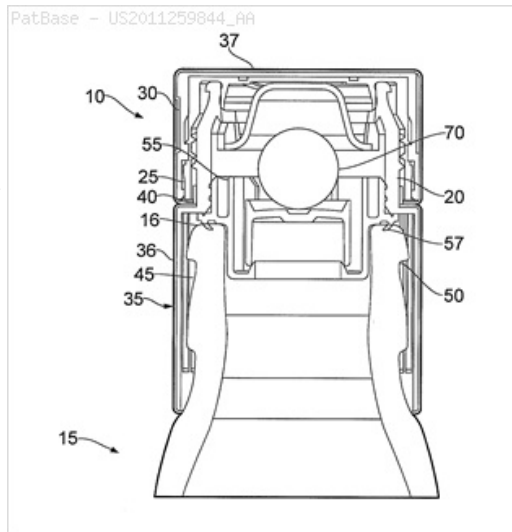
**CPC:** B65D41/34 B65D41/3404 B65D41/3409 B65D49/00 B65D49/02

B65D55/02 B65D55/022 B65D49/04 B65D55/026

**European:** B65D41/34 B65D41/34A B65D41/34A1 B65D49/00

B65D49/02 B65D49/04 B65D55/02 B65D55/02D B65D55/02G

**US:** 1/1 215/201

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AT523444 E         | 20110915         | AT20080775918T     | 20080710         |
| CN101743175 A      | 20100616         | CN200880024521     | 20080710         |
| CN101743175 B      | 20110720         | CN200880024521     | 20080710         |
| DE602008009620 D1  | 20111201         | DE200860009620T    | 20080710         |
| EP2178771 A1       | 20100428         | EP20080775918      | 20080710         |
| EP2178771 B1       | 20110907         | EP20080775918      | 20080710         |
| ES2372787 T3       | 20120126         | ES20080775918T     | 20080710         |
| GB200713711 A0     | 20070822         | GB20070013711      | 20070713         |
| GB2450939 A1       | 20090114         | GB20070013711      | 20070713         |
| GB2450939 B2       | 20120201         | GB20070013711      | 20070713         |
| HK1139112 A1       | 20120629         | HK20100104887      | 20100518         |
| KR101512526 B1     | 20150415         | KR20097026726      | 20080710         |
| KR20100031107 A    | 20100319         | KR20097026726      | 20080710         |
| PL2178771 T3       | 20120229         | PL20080775918T     | 20080710         |
| TH100859 A         | 20100331         | TH20081003618      | 20080711         |
| TH42414 B          | 20141223         | TH20081003618      | 20080711         |
| TW200909308 A      | 20090301         | TW20080126524      | 20080711         |
| TWI345541 B        | 20110721         | TW20080126524      | 20080711         |
| US2011259844 AA    | 20111027         | US20080664961      | 20080710         |
| US9102448 BB       | 20150811         | US20080664961      | 20080710         |
| WO09010722 A1      | 20090122         | WO2008GB02377      | 20080710         |

**Priority:**

EP20080775918 20080710 GB20070013711 20070713 WO2008GB02377 20080710

**Probable Assignee:** OBRIST CLOSURES SWITZERLAND

**Assignee(s):** (std): HARROWER JAMES ; MCPHERSON ALEXANDER DONALD MEIKLEM ; OBRIST CLOSURES SWITZERLAND ; SKELTON STEVEN ANDREW

**Assignee(s):** OBRIST CLOSURES SWITZERLAND GMBH

**Inventor(s):** (std): JAMES HARROWER ; MCPHERSON ALEXANDER ; MCPHERSON ALEXANDER DONALD MEI ; MCPHERSON ALEXANDER DONALD MEIKLEM ; MEIKLEM MCPHERSON ALEXANDER DONALD ; SKELTON STEVEN ; SKELTON STEVEN ANDREW ; ANDREW SKELTON STEVEN ; HARROWER JAMES

**Inventor(s):** ALEXANDER DONALD MEIKLEM MCPHERSON ; STEVEN ANDREW SKELTON

**Agent(s):** GREENWOOD MATTHEW DAVID; ANDREW F; LACKENBACH SIEGEL LLP; 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

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| Patent     | Date recorded | Event group | Code | Event                      | Details |
|------------|---------------|-------------|------|----------------------------|---------|
| AT523444 E | 20110915      | LSGT        | +    | granted / extensions (spc, |         |

|               |          |      |       |                                                                                       |                                                                                                                                                                                                               |
|---------------|----------|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cpc, pte)     |          |      |       |                                                                                       |                                                                                                                                                                                                               |
| AT523444 E    | 20120315 | LSLE | -RER  | CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES                       |                                                                                                                                                                                                               |
| CN101743175 A | 20100616 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                               |
| CN101743175 A | 20100616 | LSPB | +C06  | PUBLICATION                                                                           |                                                                                                                                                                                                               |
| CN101743175 A | 20110720 | LSGT | +C14  | GRANT OF PATENT OR UTILITY MODEL                                                      |                                                                                                                                                                                                               |
| CN101743175 B | 20110720 | LSGT | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                                                                                                                               |
| EP2178771 A1  | 20100428 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                               |
| EP2178771 A1  | 20100428 | LSES | +17P  | REQUEST FOR EXAMINATION FILED                                                         | EFFECTIVE DATE : 20100129                                                                                                                                                                                     |
| EP2178771 A1  | 20100728 | LSES | +17Q  | FIRST EXAMINATION REPORT                                                              | EFFECTIVE DATE : 20100629                                                                                                                                                                                     |
| EP2178771 A1  | 20110420 | LSRE | RIN1  | INVENTOR (CORRECTION)                                                                 | PARTYTYPE : INVENTOR<br>INVENTOR : SKELTON, STEVEN, ANDREW                                                                                                                                                    |
| EP2178771 A1  | 20110420 | LSRE | RIN1  | INVENTOR (CORRECTION)                                                                 | PARTYTYPE : INVENTOR<br>INVENTOR : MCPHERSON, ALEXANDER, DONALD, MEIKLEM                                                                                                                                      |
| EP2178771 A1  | 20110420 | LSRE | RIN1  | INVENTOR (CORRECTION)                                                                 | PARTYTYPE : INVENTOR<br>INVENTOR : HARROWER, JAMES                                                                                                                                                            |
| EP2178771 A1  | 20110907 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : GB<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                          |
| EP2178771 A1  | 20110915 | LSNP | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                            |
| EP2178771 A1  | 20110928 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                          |
| EP2178771 A1  | 20111201 | LSPB | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R096<br>REF DOCUMENT NUMBER : 602008009620<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20111201                                                       |
| EP2178771 A1  | 20120111 | LSRV | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : NL<br>REF LEGAL EVENT CODE : VDEP<br>EFFECTIVE DATE : 20110907                                                                                                                             |
| EP2178771 A1  | 20120126 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : FG2A<br>REF DOCUMENT NUMBER : 2372787<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : T3<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20120126 |
| EP2178771 A1  | 20120131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LT<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20110907    |
| EP2178771 A1  | 20120131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : HR<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20110907    |
| EP2178771 A1  | 20120131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO     | COUNTRY OF REF DOCUMENT : FI<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-                                   |

|              |          |      |       |                                                                                       |                                                                                                                                                                                                                        |
|--------------|----------|------|-------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | EPO                                                                                   | LIMIT<br>LAPSED DATE : 20110907                                                                                                                                                                                        |
| EP2178771 A1 | 20120131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : NO<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20111207 |
| EP2178771 A1 | 20120227 | LSRV | -LTIE | LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION                               | REF COUNTRY CODE : EP<br>EFFECTIVE DATE : 20110907                                                                                                                                                                     |
| EP2178771 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : GR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20111208 |
| EP2178771 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SI<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : AT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LV<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120229 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CY<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120315 | LSRV | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : AT<br>REF LEGAL EVENT CODE : MK05<br>REF DOCUMENT NUMBER : 523444<br>COUNTRY OF REF DOCUMENT : AT<br>KIND CODE OF REF DOCUMENT : T<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20110907            |
| EP2178771 A1 | 20120330 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : BE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120430 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO     | COUNTRY OF REF DOCUMENT : IS<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-                                    |

|              |          |      |       |                                                                                       |                                                                                                                                                                                                        |
|--------------|----------|------|-------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | EPO                                                                                   | LIMIT<br>LAPSED DATE : 20120107                                                                                                                                                                        |
| EP2178771 A1 | 20120430 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CZ<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120430 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SK<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : EE<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : RO<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : NL<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120531 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : PT<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20120109 |
| EP2178771 A1 | 20120629 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : HK<br>REF LEGAL EVENT CODE : GR<br>REF DOCUMENT NUMBER : 1139112<br>COUNTRY OF REF DOCUMENT : HK                                                                                    |
| EP2178771 A1 | 20120731 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : DK<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20120815 | LSGT | +26N  | NO OPPOSITION FILED                                                                   | EFFECTIVE DATE : 20120611                                                                                                                                                                              |
| EP2178771 A1 | 20121011 | LSRE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R097<br>REF DOCUMENT NUMBER : 602008009620<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20120611                                                |
| EP2178771 A1 | 20130228 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : MC<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20120731                                                                               |
| EP2178771 A1 | 20130228 | LSLE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : PL                                                                                                                                                     |
| EP2178771 A1 | 20130426 | LSLE | REG   | REFERENCE TO A                                                                        | REF COUNTRY CODE : FR                                                                                                                                                                                  |

|              |          |      |       | NATIONAL CODE                                                                         | REF LEGAL EVENT CODE : ST<br>EFFECTIVE DATE : 20130329                                                                                                                                                 |
|--------------|----------|------|-------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EP2178771 A1 | 20130430 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : FR<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20120731                                                                               |
| EP2178771 A1 | 20130430 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CH<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20120731                                                                               |
| EP2178771 A1 | 20130430 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : DE<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20130201                                                                               |
| EP2178771 A1 | 20130430 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LI<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20120731                                                                               |
| EP2178771 A1 | 20130508 | LSLE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : MM4A                                                                                                                                                   |
| EP2178771 A1 | 20130628 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : BG<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20111207 |
| EP2178771 A1 | 20130731 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : MT<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20110907 |
| EP2178771 A1 | 20130731 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : IE<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20120710                                                                               |
| EP2178771 A1 | 20130926 | LSDW | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R119<br>REF DOCUMENT NUMBER : 602008009620<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20130201                                                |
| EP2178771 A1 | 20140530 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LU<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20120710                                                                               |
| EP2178771 A1 | 20140731 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : HU<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20080710 |
| EP2178771 A1 | 20151030 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : ES<br>PAYMENT DATE : 20150728<br>YEAR OF FEE PAYMENT : 8                                                                                                                     |
| EP2178771 A1 | 20151130 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : TR<br>PAYMENT DATE : 20150706<br>YEAR OF FEE PAYMENT : 8                                                                                                                     |
| EP2178771 A1 | 20161031 | LSFE | +PGFP | POSTGRANT:                                                                            | COUNTRY OF REF DOCUMENT :                                                                                                                                                                              |

|                 |          |       |       |                                                            |                                                                                                                                                                                                                                                                      |
|-----------------|----------|-------|-------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |          |       |       | ANNUAL FEES PAID<br>TO NATIONAL<br>OFFICE                  | GB<br>PAYMENT DATE : 20160721<br>YEAR OF FEE PAYMENT : 9                                                                                                                                                                                                             |
| EP2178771 A1    | 20161031 | LSFE  | +PGFP | POSTGRANT:<br>ANNUAL FEES PAID<br>TO NATIONAL<br>OFFICE    | COUNTRY OF REF DOCUMENT : IT<br>PAYMENT DATE : 20160727<br>YEAR OF FEE PAYMENT : 9                                                                                                                                                                                   |
| EP2178771 A1    | 20161130 | LSFE  | +PGFP | POSTGRANT:<br>ANNUAL FEES PAID<br>TO NATIONAL<br>OFFICE    | COUNTRY OF REF DOCUMENT : PL<br>PAYMENT DATE : 20160707<br>YEAR OF FEE PAYMENT : 9                                                                                                                                                                                   |
| EP2178771 A1    | 20161230 | LSFE  | +PGFP | POSTGRANT:<br>ANNUAL FEES PAID<br>TO NATIONAL<br>OFFICE    | COUNTRY OF REF DOCUMENT :<br>TR<br>PAYMENT DATE : 20160705<br>YEAR OF FEE PAYMENT : 9                                                                                                                                                                                |
| EP2178771 A1    | 20161230 | LSFE  | +PGFP | POSTGRANT:<br>ANNUAL FEES PAID<br>TO NATIONAL<br>OFFICE    | COUNTRY OF REF DOCUMENT : ES<br>PAYMENT DATE : 20160715<br>YEAR OF FEE PAYMENT : 9                                                                                                                                                                                   |
| EP2178771 B1    | 20110907 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                 |                                                                                                                                                                                                                                                                      |
| ES2372787 T3    | 20120126 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                 |                                                                                                                                                                                                                                                                      |
| GB2450939 A1    | 20090114 | LSPB  | +     | published /<br>reissued                                    |                                                                                                                                                                                                                                                                      |
| GB2450939 B2    | 20120201 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                 |                                                                                                                                                                                                                                                                      |
| HK1139112 A1    | 20120629 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                 |                                                                                                                                                                                                                                                                      |
| KR101512526 B1  | 20150415 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                 |                                                                                                                                                                                                                                                                      |
| KR20100031107 A | 20100319 | LSPB  | +     | published /<br>reissued                                    |                                                                                                                                                                                                                                                                      |
| KR20100031107 A | 20130503 | LSSES | A201  | REQUEST FOR<br>EXAMINATION                                 |                                                                                                                                                                                                                                                                      |
| KR20100031107 A | 20140903 | LSSES | -E902 | NOTIFICATION OF<br>REASON FOR<br>REFUSAL                   |                                                                                                                                                                                                                                                                      |
| KR20100031107 A | 20150303 | LSGT  | +E701 | DECISION TO<br>GRANT OR<br>REGISTRATION OF<br>PATENT RIGHT |                                                                                                                                                                                                                                                                      |
| PL2178771 T3    | 20120229 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                 |                                                                                                                                                                                                                                                                      |
| TH100859 A      | 20100331 | LSPB  | +     | published /<br>reissued                                    |                                                                                                                                                                                                                                                                      |
| TH42414 B       | 20141223 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                 |                                                                                                                                                                                                                                                                      |
| TW200909308 A   | 20090301 | LSPB  | +     | published /<br>reissued                                    |                                                                                                                                                                                                                                                                      |
| TWI345541 B     | 20110721 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                 |                                                                                                                                                                                                                                                                      |
| US2011259844 AA | 20111027 | LSPB  | +     | published /<br>reissued                                    |                                                                                                                                                                                                                                                                      |
| US2011259844 AA | 20100305 | LSAS  | AS    | ASSIGNMENT                                                 | OWNER NAME : OBRIST<br>CLOSURES SWITZERLAND GMBH,<br>SWITZERLAND<br>DESCRIPTION : ASSIGNMENT OF<br>ASSIGNORS INTEREST;<br>ASSIGNORS:SKELTON, STEVEN<br>ANDREW; MCPHERSON,<br>ALEXANDER DM;<br>HARROWER,JAMES;<br>REEL/FRAME:024034/0215<br>EFFECTIVE DATE : 20100217 |
| US9102448 BB    | 20150811 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                 |                                                                                                                                                                                                                                                                      |
| US9102448 BB    | 20150722 | LSGT  | PAT1  | Patented Case                                              |                                                                                                                                                                                                                                                                      |
| WO09010722 A1   | 20090122 | LSPB  | +     | published /<br>reissued                                    |                                                                                                                                                                                                                                                                      |
| WO09010722 A1   | 20091222 | LSNP  | ENP   | ENTRY INTO THE<br>NATIONAL PHASE                           | REF DOCUMENT NUMBER :<br>20097026726                                                                                                                                                                                                                                 |

|               |          |      |      |                                                      |                                                                      |
|---------------|----------|------|------|------------------------------------------------------|----------------------------------------------------------------------|
|               |          |      |      | IN:                                                  | COUNTRY OF REF DOCUMENT :<br>KR<br>KIND CODE OF REF DOCUMENT :<br>A  |
| WO09010722 A1 | 20100114 | LSNE | NENP | NON-ENTRY INTO<br>THE NATIONAL<br>PHASE IN:          | REF COUNTRY CODE : DE                                                |
| WO09010722 A1 | 20110505 | LSNP | +WWE | WIPO<br>INFORMATION:<br>ENTRY INTO<br>NATIONAL PHASE | REF DOCUMENT NUMBER :<br>12664961<br>COUNTRY OF REF DOCUMENT :<br>US |

**Title:** DEVICE FOR CLOSING BOTTLES OF ALCOHOLIC DRINKS AND SPIRITS

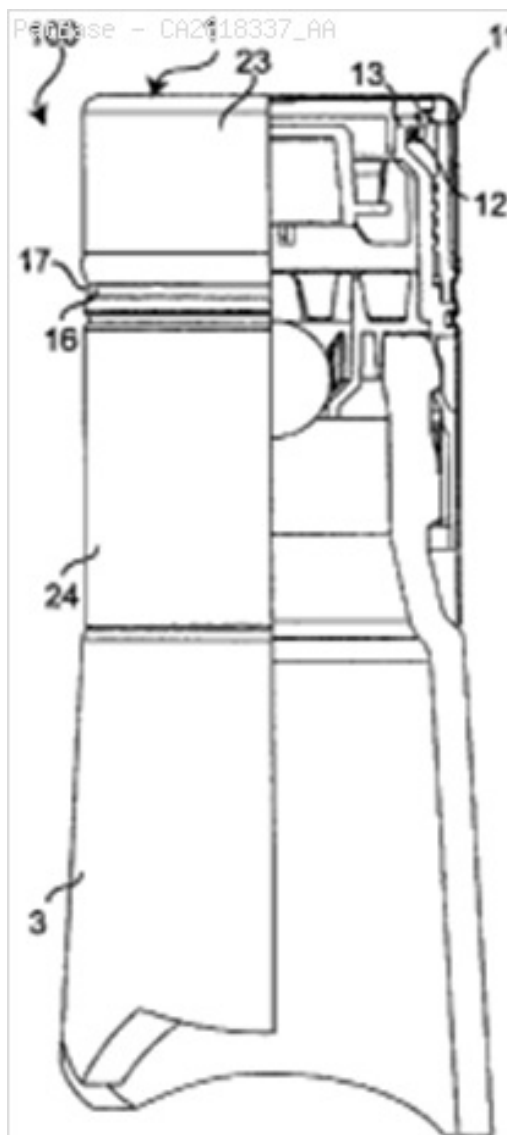
**Abstract:** Source: CA2618337A Device (100) for closing bottles of alcoholic drinks and spirits of the type comprising a cap (1), a pourer (2), suitable for being fixed to the neck of the bottle (3), and a coating (4). The cap (1) comprises at least one lever element (5) irreversibly mobile between a first position, achieved prior to assembly of the closing device (100), and a second position in which, once installed on the bottle and opened for the first time, the cap (1) prevents the device (100) from being completely closed again on the bottle.

**Classifications:**

**International (IPC 8-9):** B65D41/34 B65D50/00 (Advanced/Invention);  
B65D41/34 B65D50/00 (Core/Invention)

**CPC:** B65D47/123 B65D49/04 B65D55/026

**European:** B65D47/12B1 B65D49/04 B65D55/02G



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CA2618337 AA       | 20090704         | CA20082618337      | 20080104         |

**Priority:**

CA20082618337 20080104

**Probable Assignee:**

FABIANO NICOLA

**Assignee(s):** (std):

FABIANO NICOLA

**Inventor(s):** (std):

FABIANO NICOLA

**Legal status (INPADOC)**

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| Patent       | Date recorded | Event group | Code  | Event                | Details                   |
|--------------|---------------|-------------|-------|----------------------|---------------------------|
| CA2618337 AA | 20090704      | LSPB        | +     | published / reissued |                           |
| CA2618337 AA | 20120104      | LSLE        | -FZDE | DEAD                 |                           |
| CA2618337 AA | 20120301      | LSLE        | -FZDE | DEAD                 | EFFECTIVE DATE : 20120104 |

**Title:** CAPSULE FOR BOTTLE STOPPER

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

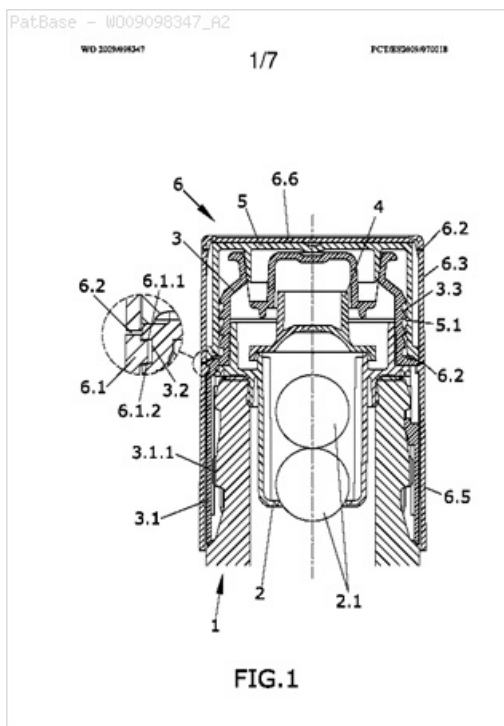
**Classifications:**

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

B65D41/00 B65D49/00 B65D51/18 (Core/Invention)

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

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



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| BRPI0905909 A2     | 20150630         | BR2009PI05909      | 20090206         |
| CO6290737 A2       | 20110620         | CO20100110907      | 20100908         |
| DE602008024252 D1  | 20130627         | DE200860024252T    | 20080730         |
| DE602009014170 D1  | 20130516         | DE200960014170T    | 20090206         |
| DOP2010000245 A    | 20101130         | DO20100000245      | 20100806         |
| EP2088091 A2       | 20090812         | EP20080381026      | 20080730         |
| EP2088091 A3       | 20091021         | EP20080381026      | 20080730         |
| EP2088091 B1       | 20130501         | EP20080381026      | 20080730         |
| EP2256057 A2       | 20101201         | EP20090709254      | 20090206         |
| EP2256057 B1       | 20130320         | EP20090709254      | 20090206         |
| ES2333569 AA       | 20100223         | ES20080000349      | 20080208         |
| ES2333569 BA       | 20110111         | ES20080000349      | 20080208         |
| ES2415175 T3       | 20130724         | ES20090709254T     | 20090206         |
| ES2424020 T3       | 20130926         | ES20080381026T     | 20080730         |
| IN02866KN2010 A    | 20111125         | IN2010KN02866      | 20100805         |
| MX2010008708 A1    | 20101130         | MX20100008708      | 20090206         |
| PH2013501522 A     | 20150126         | PH20130501522      | 20130717         |
| RU2010137268 A     | 20120320         | RU20100137268      | 20090206         |
| RU2478070 C2       | 20130327         | RU20100137268      | 20090206         |
| WO09098347 A2      | 20090813         | WO2009ES70018      | 20090206         |
| WO09098347 A3      | 20091105         | WO2009ES70018      | 20090206         |

**Priority:**

EP20080381026 20080730 EP20090709254 20090206 ES20080000349 20080208  
WQ2009ES70018 20090206

**Probable Assignee:** TAPONES IRRELLENABLES

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

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

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

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

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

**Legal status (INPADOC)**
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| Patent          | Date recorded | Event group | Code | Event                         | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|-------------|------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BRPI0905909 A2  | 20150630      | LSPB        | +    | published / reissued          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CO6290737 A2    | 20110620      | LSPB        | +    | published / reissued          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CO6290737 A2    | 20130829      | LSGT        | +FG  | APPLICATION GRANTED           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DOP2010000245 A | 20101130      | LSPB        | +    | published / reissued          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EP2088091 A2    | 20090812      | LSPB        | +    | published / reissued          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EP2088091 A2    | 20100602      | LSES        | +17P | REQUEST FOR EXAMINATION FILED | EFFECTIVE DATE : 20100420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EP2088091 A2    | 20100630      | LSFE        | +AKX | PAYMENT OF DESIGNATION FEES   | COUNTRY OF REF DOCUMENT : AT<br>COUNTRY OF REF DOCUMENT : BE<br>COUNTRY OF REF DOCUMENT : BG<br>COUNTRY OF REF DOCUMENT : CH<br>COUNTRY OF REF DOCUMENT : CY<br>COUNTRY OF REF DOCUMENT : CZ<br>COUNTRY OF REF DOCUMENT : DE<br>COUNTRY OF REF DOCUMENT : DK<br>COUNTRY OF REF DOCUMENT : EE<br>COUNTRY OF REF DOCUMENT : ES<br>COUNTRY OF REF DOCUMENT : FI<br>COUNTRY OF REF DOCUMENT : FR<br>COUNTRY OF REF DOCUMENT : GB<br>COUNTRY OF REF DOCUMENT : GR<br>COUNTRY OF REF DOCUMENT : HR<br>COUNTRY OF REF DOCUMENT : HU<br>COUNTRY OF REF DOCUMENT : IE<br>COUNTRY OF REF DOCUMENT : IS<br>COUNTRY OF REF DOCUMENT : IT<br>COUNTRY OF REF DOCUMENT : LI<br>COUNTRY OF REF DOCUMENT : LT<br>COUNTRY OF REF DOCUMENT : LU<br>COUNTRY OF REF DOCUMENT : LV<br>COUNTRY OF REF DOCUMENT : MC<br>COUNTRY OF REF DOCUMENT : MT<br>COUNTRY OF REF DOCUMENT : NL<br>COUNTRY OF REF DOCUMENT : NO<br>COUNTRY OF REF DOCUMENT : PL<br>COUNTRY OF REF DOCUMENT : PT<br>COUNTRY OF REF DOCUMENT : RO<br>COUNTRY OF REF DOCUMENT : SE<br>COUNTRY OF REF DOCUMENT : SI<br>COUNTRY OF REF DOCUMENT : SK<br>COUNTRY OF REF DOCUMENT : TR |
| EP2088091 A2    | 20110112      | LSES        | +17Q | FIRST EXAMINATION REPORT      | EFFECTIVE DATE : 20101213                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EP2088091 A2    | 20130501      | LSGT        | REG  | REFERENCE TO A NATIONAL CODE  | REF COUNTRY CODE : GB<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EP2088091 A2    | 20130515      | LSNP        | REG  | REFERENCE TO A NATIONAL CODE  | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| EP2088091 A2    | 20130515      | LSNP        | REG  | REFERENCE TO A NATIONAL CODE  | REF COUNTRY CODE : AT<br>REF LEGAL EVENT CODE : REF<br>REF DOCUMENT NUMBER : 609790<br>COUNTRY OF REF DOCUMENT : AT<br>KIND CODE OF REF DOCUMENT : T<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20130515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EP2088091 A2    | 20130522      | LSGT        | REG  | REFERENCE TO A NATIONAL CODE  | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EP2088091 A2    | 20130627      | LSPB        | REG  | REFERENCE TO A NATIONAL CODE  | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R096<br>REF DOCUMENT NUMBER : 602008024252<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20130627                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| EP2088091 A2    | 20130915      | LSRV        | REG  | REFERENCE TO A NATIONAL CODE  | REF COUNTRY CODE : AT<br>REF LEGAL EVENT CODE : MK05<br>REF DOCUMENT NUMBER : 609790<br>COUNTRY OF REF DOCUMENT : AT<br>KIND CODE OF REF DOCUMENT : T<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20130501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| EP2088091 A2    | 20130926      | LSGT        | REG  | REFERENCE TO A NATIONAL CODE  | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : FG2A<br>REF DOCUMENT NUMBER :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|              |          |      |       |                                                                                       |                                                                                                                                                                                                           |
|--------------|----------|------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       |                                                                                       | 2424020<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : T3<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20130926                                                                           |
| EP2088091 A2 | 20131023 | LSRV | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : NL<br>REF LEGAL EVENT CODE : VDEP<br>EFFECTIVE DATE : 20130501                                                                                                                         |
| EP2088091 A2 | 20131025 | LSRV | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : LT<br>REF LEGAL EVENT CODE : MG4D                                                                                                                                                      |
| EP2088091 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SI<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : PT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130902 |
| EP2088091 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : GR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130802 |
| EP2088091 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : FI<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : NO<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130801 |
| EP2088091 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : AT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : IS<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130901 |
| EP2088091 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A CONTRACTING                                                               | COUNTRY OF REF DOCUMENT : CY<br>NOTIFICATIONOFLAPSE : LAPSE                                                                                                                                               |

|              |          |      |       |                                                                                                            |                                                                                                                                                                                                                        |
|--------------|----------|------|-------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO                               | BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501                                                                |
| EP2088091 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : SI<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : PL<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : GR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130802 |
| EP2088091 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : SE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : FI<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : BG<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130801 |
| EP2088091 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : HR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20131231 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : LV<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20140131 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : DK<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20140131 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : BE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20140131 | LSLE | -PG25 | LAPSED IN A                                                                                                | COUNTRY OF REF DOCUMENT : EE                                                                                                                                                                                           |

|              |          |      |       |                                                                                                            |                                                                                                                                                                                                                            |
|--------------|----------|------|-------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO                | NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501                                    |
| EP2088091 A2 | 20140131 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : SK<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501    |
| EP2088091 A2 | 20140131 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : CZ<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501    |
| EP2088091 A2 | 20140228 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT :<br>MC<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20140228 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : SK<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501    |
| EP2088091 A2 | 20140228 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : IT<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501    |
| EP2088091 A2 | 20140228 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT : NL<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501    |
| EP2088091 A2 | 20140228 | LSLE | -PG25 | LAPSED IN A<br>CONTRACTING<br>STATE<br>ANNOUNCED VIA<br>POSTGRANT<br>INFORM. FROM<br>NAT. OFFICE TO<br>EPO | COUNTRY OF REF DOCUMENT :<br>RO<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130501 |
| EP2088091 A2 | 20140228 | LSLE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                            | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : PL                                                                                                                                                                         |
| EP2088091 A2 | 20140409 | LSGT | +26N  | NO OPPOSITION<br>FILED                                                                                     | EFFECTIVE DATE : 20140204                                                                                                                                                                                                  |
| EP2088091 A2 | 20140423 | LSLE | -GBPC | GB: EUROPEAN<br>PATENT CEASED<br>THROUGH NON-<br>PAYMENT OF<br>RENEWAL FEE                                 | REF COUNTRY CODE : EP<br>EFFECTIVE DATE : 20130801                                                                                                                                                                         |
| EP2088091 A2 | 20140423 | LSLE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                            | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : MM4A                                                                                                                                                                       |
| EP2088091 A2 | 20140424 | LSDW | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                            | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R119<br>REF DOCUMENT NUMBER :<br>602008024252<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20140201                                                                 |
| EP2088091 A2 | 20140425 | LSLE | REG   | REFERENCE TO A<br>NATIONAL CODE                                                                            | REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE : ST<br>EFFECTIVE DATE : 20140331                                                                                                                                            |

|              |          |       |       |                                                                                       |                                                                                                                                                                                                                                |
|--------------|----------|-------|-------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EP2088091 A2 | 20140430 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CH<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20130731                                                                                                  |
| EP2088091 A2 | 20140430 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LI<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20130731                                                                                                  |
| EP2088091 A2 | 20140430 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : DE<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20140201                                                                                                  |
| EP2088091 A2 | 20140530 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : FR<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20130731                                                                                                  |
| EP2088091 A2 | 20140731 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : GB<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20130801                                                                                                  |
| EP2088091 A2 | 20140731 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : IE<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20130730                                                                                                  |
| EP2088091 A2 | 20150630 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : MT<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130501                    |
| EP2088091 A2 | 20150630 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : TR<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130501                    |
| EP2088091 A2 | 20150731 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LU<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20130730                                                                                                  |
| EP2088091 A2 | 20150731 | LSLE  | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : HU<br>NOTIFICATION OF LAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO<br>LAPSED DATE : 20080730 |
| EP2088091 A2 | 20161230 | LSFE  | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : ES<br>PAYMENT DATE : 20160729<br>YEAR OF FEE PAYMENT : 9                                                                                                                                             |
| EP2088091 B1 | 20130501 | LSGT  | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                                                                                                                                                |
| EP2256057 A2 | 20101201 | LSPB  | +     | published / reissued                                                                  |                                                                                                                                                                                                                                |
| EP2256057 A2 | 20101201 | LSSES | +17P  | REQUEST FOR EXAMINATION                                                               | EFFECTIVE DATE : 20100907                                                                                                                                                                                                      |

| EP2256057 A2 | 20110223 | LSES | +17Q  | FILED                                                                                 |                                                                                                                                                                                                               |
|--------------|----------|------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | FIRST EXAMINATION REPORT                                                              | EFFECTIVE DATE : 20110125                                                                                                                                                                                     |
| EP2256057 A2 | 20130320 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : GB<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                          |
| EP2256057 A2 | 20130328 | LSNP | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                            |
| EP2256057 A2 | 20130410 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                          |
| EP2256057 A2 | 20130415 | LSNP | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : AT<br>REF LEGAL EVENT CODE : REF<br>REF DOCUMENT NUMBER : 601942<br>COUNTRY OF REF DOCUMENT : AT<br>KIND CODE OF REF DOCUMENT : T<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20130415    |
| EP2256057 A2 | 20130516 | LSPB | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R096<br>REF DOCUMENT NUMBER : 602009014170<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20130516                                                       |
| EP2256057 A2 | 20130724 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : FG2A<br>REF DOCUMENT NUMBER : 2415175<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : T3<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20130724 |
| EP2256057 A2 | 20130731 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : BG<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130620    |
| EP2256057 A2 | 20130731 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LT<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320    |
| EP2256057 A2 | 20130731 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : NO<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130620    |
| EP2256057 A2 | 20130731 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SE<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320    |
| EP2256057 A2 | 20130815 | LSRV | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : AT<br>REF LEGAL EVENT CODE : MK05<br>REF DOCUMENT NUMBER : 601942<br>COUNTRY OF REF DOCUMENT : AT<br>KIND CODE OF REF DOCUMENT : T<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20130320   |
| EP2256057 A2 | 20130826 | LSRV | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : LT<br>REF LEGAL EVENT CODE : MG4D                                                                                                                                                          |
| EP2256057 A2 | 20130830 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SI<br>NOTIFICATIONNOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320    |

|              |          |      |       |                                                                                       |                                                                                                                                                                                                                        |
|--------------|----------|------|-------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EP2256057 A2 | 20130830 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : FI<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20130830 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LV<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20130830 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : GR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130621 |
| EP2256057 A2 | 20130904 | LSRV | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : NL<br>REF LEGAL EVENT CODE : VDEP<br>EFFECTIVE DATE : 20130320                                                                                                                                      |
| EP2256057 A2 | 20130930 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : BE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20130930 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : HR<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : PT<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130722 |
| EP2256057 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CZ<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : RO<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : IS<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130720 |
| EP2256057 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : EE<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT<br>A TRANSLATION OF THE<br>DESCRIPTION OR TO PAY THE FEE<br>WITHIN THE PRESCRIBED TIME-<br>LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE                                                         | COUNTRY OF REF DOCUMENT : SK<br>NOTIFICATIONOFLAPSE : LAPSE<br>BECAUSE OF FAILURE TO SUBMIT                                                                                                                            |

|              |          |      |       |                                                                                          |                                                                                                                                                                                                          |
|--------------|----------|------|-------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |          |      |       | ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO                                  | A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320                                                                                            |
| EP2256057 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : AT<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : NL<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : RO<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : EE<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CZ<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : PL<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SK<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20131129 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CY<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20140131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : DK<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20140226 | LSGT | +26N  | NO OPPOSITION FILED                                                                      | EFFECTIVE DATE : 20140102                                                                                                                                                                                |
| EP2256057 A2 | 20140228 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE<br>ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : IT<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |

|              |          |      |       |                                                                                       |                                                                                                                                                                                                        |
|--------------|----------|------|-------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EP2256057 A2 | 20140403 | LSRE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R097<br>REF DOCUMENT NUMBER : 602009014170<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20140102                                                |
| EP2256057 A2 | 20140902 | LSDW | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R119<br>REF DOCUMENT NUMBER : 602009014170<br>COUNTRY OF REF DOCUMENT : DE                                                                             |
| EP2256057 A2 | 20140930 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : MC<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320 |
| EP2256057 A2 | 20140930 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LU<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20140206 |
| EP2256057 A2 | 20140930 | LSLE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : PL                                                                                                                                                     |
| EP2256057 A2 | 20141029 | LSLE | -GBPC | GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE                         | REF COUNTRY CODE : EP<br>EFFECTIVE DATE : 20140206                                                                                                                                                     |
| EP2256057 A2 | 20141031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CH<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20140228                                                                               |
| EP2256057 A2 | 20141031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LI<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20140228                                                                               |
| EP2256057 A2 | 20141121 | LSLE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE : ST<br>EFFECTIVE DATE : 20141031                                                                                                                        |
| EP2256057 A2 | 20141203 | LSLE | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : MM4A                                                                                                                                                   |
| EP2256057 A2 | 20141204 | LSDW | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R119<br>REF DOCUMENT NUMBER : 602009014170<br>COUNTRY OF REF DOCUMENT : DE<br>EFFECTIVE DATE : 20140902                                                |
| EP2256057 A2 | 20150130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : FR<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20140228                                                                               |
| EP2256057 A2 | 20150130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : DE<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20140902                                                                               |
| EP2256057 A2 | 20150130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : IE<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20140206                                                                               |

|                 |          |      |       |                                                                                       |                                                                                                                                                                                                                             |
|-----------------|----------|------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EP2256057 A2    | 20150130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : GB<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20140206                                                                                                  |
| EP2256057 A2    | 20160229 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : MT<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320                    |
| EP2256057 A2    | 20160729 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : ES<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20090207                                                                                                  |
| EP2256057 A2    | 20160729 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : TR<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20130320                    |
| EP2256057 A2    | 20160729 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : HU<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO<br>LAPSED DATE : 20090206 |
| EP2256057 A2    | 20161130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : ES<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES<br>LAPSED DATE : 20140207                                                                                                  |
| EP2256057 B1    | 20130320 | LSGT | +     | granted / extensions (spc, cpc, pte)                                                  | REF DOCUMENT NUMBER : 2333569<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : B1<br>EFFECTIVE DATE : 20101228                                                                                                |
| ES2333569 AA    | 20100223 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                                             |
| ES2333569 AA    | 20110111 | LSGT | +FG2A | DEFINITIVE PROTECTION                                                                 |                                                                                                                                                                                                                             |
| ES2333569 BA    | 20110111 | LSGT | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                                                                                                                                             |
| ES2415175 T3    | 20130724 | LSGT | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                                                                                                                                             |
| ES2424020 T3    | 20130926 | LSGT | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                                                                                                                                             |
| IN02866KN2010 A | 20111125 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                                             |
| MX2010008708 A1 | 20101130 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                                             |
| MX2010008708 A1 | 20131120 | LSGT | +FG   | GRANT OR REGISTRATION                                                                 |                                                                                                                                                                                                                             |
| PH2013501522 A  | 20150126 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                                             |
| RU2010137268 A  | 20120320 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                                             |
| RU2478070 C2    | 20130327 | LSGT | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                                                                                                                                             |
| WO09098347 A2   | 20090813 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                                             |
| WO09098347 A2   | 20100908 | LSNP | ENP   | ENTRY INTO THE NATIONAL PHASE                                                         | REF DOCUMENT NUMBER : 2010137268                                                                                                                                                                                            |

|               |          |      |      |                                                      |                                                                                                                                      |
|---------------|----------|------|------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|               |          |      |      | IN:                                                  | COUNTRY OF REF DOCUMENT : RU<br>KIND CODE OF REF DOCUMENT : A                                                                        |
| WO09098347 A3 | 20100810 | LSNE | NENP | NON-ENTRY INTO<br>THE NATIONAL<br>PHASE IN:          | REF COUNTRY CODE : DE                                                                                                                |
| WO09098347 A3 | 20100908 | LSNP | ENP  | ENTRY INTO THE<br>NATIONAL PHASE<br>IN:              | REF DOCUMENT NUMBER :<br>2010137268<br>COUNTRY OF REF DOCUMENT : RU<br>KIND CODE OF REF DOCUMENT : A                                 |
| WO09098347 A3 | 20100908 | LSNP | +WWE | WIPO<br>INFORMATION:<br>ENTRY INTO<br>NATIONAL PHASE | REF DOCUMENT NUMBER :<br>2010137268<br>COUNTRY OF REF DOCUMENT : RU                                                                  |
| WO09098347 A3 | 20150630 | LSNP | ENP  | ENTRY INTO THE<br>NATIONAL PHASE<br>IN:              | REF DOCUMENT NUMBER :<br>PI0905909<br>COUNTRY OF REF DOCUMENT : BR<br>KIND CODE OF REF DOCUMENT :<br>A2<br>EFFECTIVE DATE : 20100806 |

**Title:** A TAMPER-EVIDENT CLOSURE

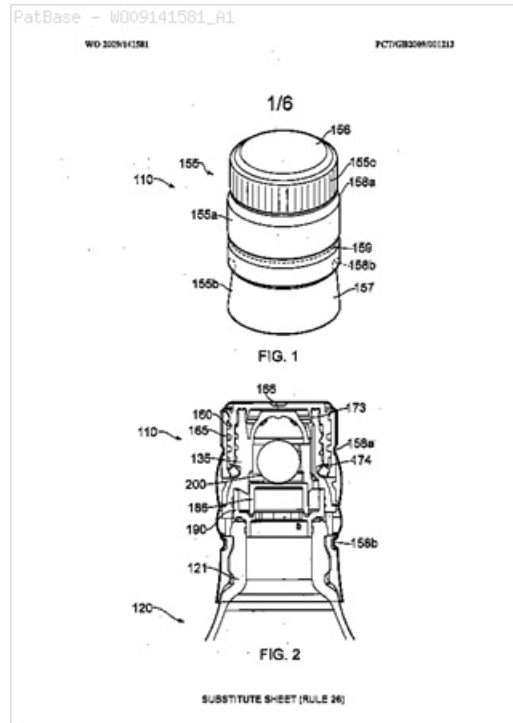
**Abstract:** A tamper-evident closure (110) for alpha container (120) is provided. The closure comprising a body part (175) attachable to a container and a cap part (135) having inner (165) and outer (160) parts, the outer part is movable relative to the inner part from a first position to a second position in which a gap (G) is formed in the closure and in which the inner and outer cap parts become irreversibly locked so that the gap cannot be closed, in which the inner part includes locking means (174) for preventing movement relative to the body, and in which the outer part holds the locking means in a locked position when in the first position and until it reaches the second position and thereafter the locking means are released so that the inner part can move relative to the body part.

**Classifications:**

**International (IPC 8-9):** B65D49/06 B65D55/02 (Advanced/Invention); B65D49/00 B65D55/02 (Core/Invention)

**CPC:** B65D49/06 B65D55/026

**European:** B65D49/06 B65D55/02G



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CN102076573 A      | 20110525         | CN200980124769     | 20090515         |
| CN102076573 B      | 20130605         | CN200980124769     | 20090515         |
| GB200809058 A0     | 20080625         | GB20080009058      | 20080519         |
| WO09141581 A1      | 20091126         | WO2009GB01213      | 20090515         |

**Priority:**

GB20080009058 20080519 WO2009GB01213 20090515

**Probable Assignee:** OBRIST CLOSURES SWITZERLAND

**Assignee(s):** (std): MCPHERSON ALEXANDER DONALD MEICKLEM ; OBRIST CLOSURES SWITZERLAND ; SKELTON STEVEN ANDREW

**Assignee(s):** OBRIST CLOSURES SWITZERLAND GMBH

**Inventor(s):** (std): MCPHERSON ALEXANDER DONALD MEICKLEM ; SKELTON STEVEN ANDREW ; MEICKLEM MCPHERSON ALEXANDER DONALD ; ANDREW SKELTON STEVEN

**Agent(s):** GREENWOOD MATTHEW

**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 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     |
|----------------|---------------|-------------|------|----------------------------------------------------------------|-------------|
| CN102076573 A  | 20110525      | LSPB        | +    | published / reissued                                           |             |
| CN102076573 A  | 20110525      | LSPB        | +C06 | PUBLICATION                                                    |             |
| CN102076573 A  | 20130605      | LSGT        | +C14 | GRANT OF PATENT OR UTILITY MODEL                               |             |
| CN102076573 B  | 20130605      | LSGT        | +    | granted / extensions (spc, cpc, pte)                           |             |
| GB200809058 A0 | 20091216      | LSWD        | -AT  | APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1) |             |
| WO09141581 A1  | 20091126      | LSPB        | +    | published / reissued                                           |             |
| WO09141581 A1  | 20101120      | LSNE        | NENP | NON-ENTRY INTO THE NATIONAL                                    | REF COUNTRY |

|               |          |      |      | PHASE IN:                                          | CODE : DE                                                                                                       |
|---------------|----------|------|------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| WO09141581 A1 | 20110615 | LSNE | -122 | EP: PCT APPLICATION NON-ENTRY<br>IN EUROPEAN PHASE | REF DOCUMENT<br>NUMBER :<br>09750059<br>COUNTRY OF REF<br>DOCUMENT : EP<br>KIND CODE OF<br>REF DOCUMENT :<br>A1 |

**Title:** TAMPER-EVIDENT CLOSURE

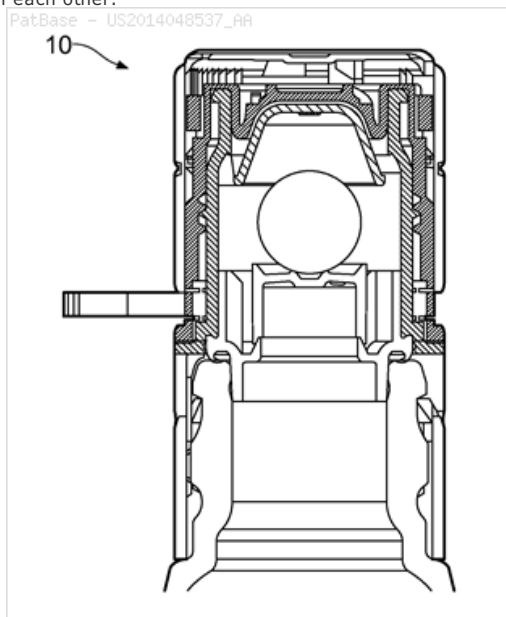
**Abstract:** Source: US2014048537A A tamper-evident closure for a container comprises a first portion and a second portion, the first portion being connected or connectable to the second portion and removable therefrom. The closure is movable upon a first opening from a first position in which the portions are in a first relative relation to a second position in which they are in a second relative relation. The closure comprises means for preventing the portions from returning to the first position. The closure comprises a removable retention member which attaches the first and second portions together such that the member must be removed before the portions can be separated from each other.

**Classifications:**

**International (IPC 8-9):** B65D41/34 B65D41/48 B65D41/62  
B65D47/12 B65D47/14 B65D47/36 B65D49/04 B65D51/18  
B65D55/02 (Advanced/Invention)

**CPC:** B65D41/3428 B65D49/04 B65D51/18 B65D55/02  
B65D2101/0023 B65D2101/0038 B65D47/123

**US:** 215/256 220/276



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CN103906689 A      | 20140702         | CN201280054548     | 20121108         |
| CN103906689 B      | 20160217         | CN201280054548     | 20121108         |
| CO6950457 A2       | 20140520         | CO20140097912      | 20140507         |
| EP2776335 A1       | 20140917         | EP20120805730      | 20121108         |
| GB201119311 A0     | 20111221         | GB20110019311      | 20111108         |
| JP2014534136 T2    | 20141218         | JP20140539412T     | 20121108         |
| JP6068489 B2       | 20170125         | JP20140539412T     | 20121108         |
| MX2014005511 A1    | 20140709         | MX20140005511      | 20121108         |
| PE20332014 A1      | 20150110         | PE20140000653      | 20121108         |
| RU2014115230 A     | 20151220         | RU20140115230      | 20121108         |
| US2014048537 AA    | 20140220         | US20120824981      | 20121108         |
| US9033169 BB       | 20150519         | US20120824981      | 20121108         |
| WO13068750 A1      | 20130516         | WO2012GB52780      | 20121108         |

**Priority:**

GB20110019311 20111108 WO2012GB52780 20121108

**Probable Assignee:** OBRIST CLOSURES SWITZERLAND

**Assignee(s):** (std): OBRIST CLOSURES SWITZERLAND

**Assignee(s):** OBRIST CLOSURES SWITZERLAND GMBH

**Inventor(s):** (std): MCPHERSON ALEXANDER DONALD MEIKLEM

**Inventor(s):** ALEXANDER DONALD MEIKLEM MCPHERSON

**Agent(s):** JAIME EDUARDO DELGADO VILLEGAS; LICHOTA CATHERINE MARGARET TIMMIS; OZAWA SEIJI;  
HIROTA MASANORI; ALLEMAN HALL MCCOY RUSSELL AND TUTTLE LLP; 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 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 |
|---------------|---------------|-------------|------|----------------------------------|---------|
| CN103906689 A | 20140702      | LSPB        | +    | published / reissued             |         |
| CN103906689 A | 20140702      | LSPB        | +C06 | PUBLICATION                      |         |
| CN103906689 A | 20160217      | LSGT        | +C14 | GRANT OF PATENT OR UTILITY MODEL |         |
| CN103906689 B | 20160217      | LSGT        | +    | granted / extensions (spc,       |         |

|                 |          |       |       |                                                                                           |                                                                                                                                                                                                                                   |  |
|-----------------|----------|-------|-------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                 |          |       |       | cpc, pte)                                                                                 |                                                                                                                                                                                                                                   |  |
| CO6950457 A2    | 20140520 | LSPB  | +     | published /<br>reissued                                                                   |                                                                                                                                                                                                                                   |  |
| EP2776335 A1    | 20140917 | LSPB  | +     | published /<br>reissued                                                                   |                                                                                                                                                                                                                                   |  |
| EP2776335 A1    | 20140917 | LSSES | +17P  | REQUEST FOR<br>EXAMINATION FILED                                                          | EFFECTIVE DATE : 20140530                                                                                                                                                                                                         |  |
| EP2776335 A1    | 20151104 | LSSES | +17Q  | FIRST EXAMINATION<br>REPORT                                                               | EFFECTIVE DATE : 20151005                                                                                                                                                                                                         |  |
| EP2776335 A1    | 20170412 | LSGT  | +INTG | ANNOUNCEMENT OF<br>INTENTION TO<br>GRANT                                                  | EFFECTIVE DATE : 20170313                                                                                                                                                                                                         |  |
| GB201119311 A0  | 20130724 | LSWD  | -AT   | APPLICATIONS<br>TERMINATED<br>BEFORE<br>PUBLICATION<br>UNDER SECTION<br>16(1)             |                                                                                                                                                                                                                                   |  |
| JP2014534136 T2 | 20141218 | LSPB  | +     | published /<br>reissued                                                                   |                                                                                                                                                                                                                                   |  |
| JP2014534136 T2 | 20151020 | LSSES | +A621 | WRITTEN REQUEST<br>FOR APPLICATION<br>EXAMINATION                                         | TEXT : JAPANESE INTERMEDIATE<br>CODE: A621<br>EFFECTIVE DATE : 20151020                                                                                                                                                           |  |
| JP2014534136 T2 | 20160725 | LSSES | -A131 | NOTIFICATION OF<br>REASONS FOR<br>REFUSAL                                                 | TEXT : JAPANESE INTERMEDIATE<br>CODE: A131<br>EFFECTIVE DATE : 20160725                                                                                                                                                           |  |
| JP2014534136 T2 | 20160929 | LSRE  | A521  | WRITTEN<br>AMENDMENT                                                                      | TEXT : JAPANESE INTERMEDIATE<br>CODE: A523<br>EFFECTIVE DATE : 20160929                                                                                                                                                           |  |
| JP2014534136 T2 | 20161125 | LSGT  | +TRDD | DECISION OF GRANT<br>OR REJECTION<br>WRITTEN                                              |                                                                                                                                                                                                                                   |  |
| JP2014534136 T2 | 20161129 | LSGT  | +A01  | WRITTEN DECISION<br>TO GRANT A PATENT<br>OR TO GRANT A<br>REGISTRATION<br>(UTILITY MODEL) | TEXT : JAPANESE INTERMEDIATE<br>CODE: A01<br>EFFECTIVE DATE : 20161129                                                                                                                                                            |  |
| JP2014534136 T2 | 20170105 | LSFE  | +A61  | FIRST PAYMENT OF<br>ANNUAL FEES<br>(DURING GRANT<br>PROCEDURE)                            | TEXT : JAPANESE INTERMEDIATE<br>CODE: A61<br>EFFECTIVE DATE : 20161222                                                                                                                                                            |  |
| JP2014534136 T2 | 20170106 | LSGT  | +R150 | CERTIFICATE OF<br>PATENT OR<br>REGISTRATION OF<br>UTILITY MODEL                           | TEXT : JAPANESE INTERMEDIATE<br>CODE: R150<br>REF DOCUMENT NUMBER :<br>6068489<br>COUNTRY OF REF DOCUMENT :<br>JP                                                                                                                 |  |
| JP6068489 B2    | 20170125 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                                                |                                                                                                                                                                                                                                   |  |
| MX2014005511 A1 | 20140709 | LSPB  | +     | published /<br>reissued                                                                   |                                                                                                                                                                                                                                   |  |
| PE20332014 A1   | 20150110 | LSPB  | +     | published /<br>reissued                                                                   |                                                                                                                                                                                                                                   |  |
| RU2014115230 A  | 20151220 | LSPB  | +     | published /<br>reissued                                                                   |                                                                                                                                                                                                                                   |  |
| US2014048537 AA | 20140220 | LSPB  | +     | published /<br>reissued                                                                   |                                                                                                                                                                                                                                   |  |
| US2014048537 AA | 20130416 | LSAS  | AS    | ASSIGNMENT                                                                                | OWNER NAME : OBRIST<br>CLOSURES SWITZERLAND<br>GMBH, SWITZERLAND<br>DESCRIPTION : ASSIGNMENT OF<br>ASSIGNORS INTEREST;<br>ASSIGNOR:MCPHERSON,<br>ALEXANDER DONALD MEIKLEM;<br>REEL/FRAME:030224/0676<br>EFFECTIVE DATE : 20130318 |  |
| US9033169 BB    | 20150519 | LSGT  | +     | granted /<br>extensions (spc,<br>cpc, pte)                                                |                                                                                                                                                                                                                                   |  |
| US9033169 BB    | 20150429 | LSGT  | PAT1  | Patented Case                                                                             |                                                                                                                                                                                                                                   |  |
| WO13068750 A1   | 20130516 | LSPB  | +     | published /<br>reissued                                                                   |                                                                                                                                                                                                                                   |  |
| WO13068750 A1   | 20130321 | LSNP  | +WWE  | WIPO<br>INFORMATION:<br>ENTRY INTO<br>NATIONAL PHASE                                      | REF DOCUMENT NUMBER :<br>13824981<br>COUNTRY OF REF DOCUMENT :<br>US                                                                                                                                                              |  |
| WO13068750 A1   | 20140424 | LSNP  | ENP   | ENTRY INTO THE                                                                            | REF DOCUMENT NUMBER :                                                                                                                                                                                                             |  |

|               |          |      |      |                                             |                                                                                                            |
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|               |          |      |      | NATIONAL PHASE<br>IN:                       | 2014539412<br>COUNTRY OF REF DOCUMENT :<br>JP<br>KIND CODE OF REF DOCUMENT :<br>A                          |
| WO13068750 A1 | 20140508 | LSNE | NENP | NON-ENTRY INTO<br>THE NATIONAL<br>PHASE IN: | REF COUNTRY CODE : DE                                                                                      |
| WO13068750 A1 | 20140609 | LSNP | ENP  | ENTRY INTO THE<br>NATIONAL PHASE<br>IN:     | REF DOCUMENT NUMBER :<br>2014115230<br>COUNTRY OF REF DOCUMENT :<br>RU<br>KIND CODE OF REF DOCUMENT :<br>A |

**Title:** TAMPER-EVIDENT CLOSURE

**Abstract:** Source: US2014183195A A tamper-evident closure for a container is provided. The closure comprises a first portion including inner and outer parts, and a second portion. The outer part is rotatable relative to the inner part from a first position in which at least part of the first and second portions are adjacent each other to a second position in which there is a gap therebetween. The first portion comprises locking means for irreversibly locking the closure in the second position upon a first opening so that the gap cannot be closed. The inner part includes a line of weakness which breaks if the outer part is reverse rotated relative to the inner part.

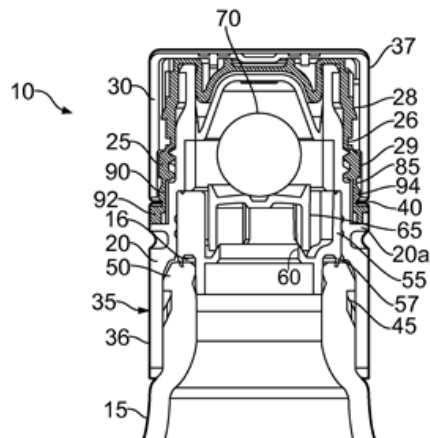
**Classifications:**

**International (IPC 8-9):** B65D41/34 B65D49/04 B65D50/00 B65D55/02 (Advanced/Invention)

**CPC:** B65D50/00 B65D49/04 B65D55/022 B65D55/026 B65D2101/0023

**US:** 215/17 215/215 215/230 215/252 215/26 220/259.4 220/266

PatBase - US2014183195\_AA

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| CN104203767 A      | 20141210         | CN201280071340     | 20121207         |
| CN104203767 B      | 20160706         | CN201280071340     | 20121207         |
| CO7240353 A2       | 20150417         | CO20140168333      | 20140801         |
| DE602012020061 D1  | 20160811         | DE201260020061T    | 20121207         |
| EP2809589 A1       | 20141210         | EP20120808731      | 20121207         |
| EP2809589 B1       | 20160629         | EP20120808731      | 20121207         |
| ES2594412 T3       | 20161220         | ES20120808731T     | 20121207         |
| GB201201976 A0     | 20120321         | GB20120001976      | 20120203         |
| JP2015509064 T2    | 20150326         | JP20140555104T     | 20121207         |
| JP6067751 B2       | 20170125         | JP20140555104T     | 20121207         |
| MX2014009278 A1    | 20140911         | MX20140009278      | 20121207         |
| PE24272014 A1      | 20150213         | PE20140001202      | 20121207         |
| PH2014501691 A     | 20141110         | PH20140501691      | 20140725         |
| PL2809589 T3       | 20170228         | PL20120808731T     | 20121207         |
| RU2014131782 A     | 20160327         | RU20140131782      | 20121207         |
| RU2612853 C2       | 20170313         | RU20140131782      | 20121207         |
| US2014183195 AA    | 20140703         | US20120824936      | 20121207         |
| US9010554 BB       | 20150421         | US20120824936      | 20121207         |
| WO13113435 A1      | 20130808         | WO2012EP74846      | 20121207         |

**Priority:**

EP20120808731 20121207 GB20120001976 20120203 WO2012EP74846 20121207

**Probable Assignee:** OBRIST CLOSURES SWITZERLAND

**Assignee(s):** (std): OBRIST CLOSURES SWITZERLAND ; OBRIST KLOUZHES SVITTSERLAND GMBKH

**Assignee(s):** OBRIST CLOSURES SWITZERLAND GMBH

**Inventor(s):** (std): MAKFERSON ALEKSANDR DONALD MEJKLEM ; MCPHERSON ALEXANDER DONALD MEIKLEM ; MEIKLEM MCPHERSON ALEXANDER DONALD

**Inventor(s):** ALEXANDER DONALD MEIKLEM MCPHERSON

**Agent(s):** LICHOTA CATHERINE MARGARET TIMMIS; ISERN JORGE; OZAWA SEIJI; HIROTA MASANORI; ALLEMAN HALL MCCOY RUSSELL AND TUTTLE LLP; BEATSON MATTHEW 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 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

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| Patent        | Date recorded | Event group | Code | Event                | Details |
|---------------|---------------|-------------|------|----------------------|---------|
| CN104203767 A | 20141210      | LSPB        | +    | published / reissued |         |
| CN104203767 A | 20141210      | LSPB        | +C06 | PUBLICATION          |         |

|               |          |      |       |                                                                                       |                                                                                                                                                                                                            |
|---------------|----------|------|-------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CN104203767 A | 20160706 | LSGT | +C14  | GRANT OF PATENT OR UTILITY MODEL                                                      |                                                                                                                                                                                                            |
| CN104203767 B | 20160706 | LSGT | +     | granted / extensions (spc, cpc, pte)                                                  |                                                                                                                                                                                                            |
| CO7240353 A2  | 20150417 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                            |
| EP2809589 A1  | 20141210 | LSPB | +     | published / reissued                                                                  |                                                                                                                                                                                                            |
| EP2809589 A1  | 20141210 | LSES | +17P  | REQUEST FOR EXAMINATION FILED                                                         | EFFECTIVE DATE : 20140829                                                                                                                                                                                  |
| EP2809589 A1  | 20151007 | LSGT | +INTG | ANNOUNCEMENT OF INTENTION TO GRANT                                                    | EFFECTIVE DATE : 20150910                                                                                                                                                                                  |
| EP2809589 A1  | 20160601 | LSGT | +INTG | ANNOUNCEMENT OF INTENTION TO GRANT                                                    | EFFECTIVE DATE : 20160509                                                                                                                                                                                  |
| EP2809589 A1  | 20160629 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : GB<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                       |
| EP2809589 A1  | 20160630 | LSNP | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : CH<br>REF LEGAL EVENT CODE : EP                                                                                                                                                         |
| EP2809589 A1  | 20160715 | LSNP | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : AT<br>REF LEGAL EVENT CODE : REF<br>REF DOCUMENT NUMBER : 808906<br>COUNTRY OF REF DOCUMENT : AT<br>KIND CODE OF REF DOCUMENT : T<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20160715 |
| EP2809589 A1  | 20160727 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : IE<br>REF LEGAL EVENT CODE : FG4D                                                                                                                                                       |
| EP2809589 A1  | 20160811 | LSPB | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : DE<br>REF LEGAL EVENT CODE : R096<br>REF DOCUMENT NUMBER : 602012020061<br>COUNTRY OF REF DOCUMENT : DE                                                                                 |
| EP2809589 A1  | 20160922 | LSNP | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : RO<br>REF LEGAL EVENT CODE : EPE                                                                                                                                                        |
| EP2809589 A1  | 20161025 | LSRV | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : LT<br>REF LEGAL EVENT CODE : MG4D                                                                                                                                                       |
| EP2809589 A1  | 20161031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LT<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629     |
| EP2809589 A1  | 20161031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : FI<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629     |
| EP2809589 A1  | 20161031 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : NO<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160929     |
| EP2809589 A1  | 20161130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : HR<br>NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629     |

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| EP2809589 A1 | 20161130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : RS<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629      |
| EP2809589 A1 | 20161130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SE<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629      |
| EP2809589 A1 | 20161130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : NL<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629      |
| EP2809589 A1 | 20161130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : GR<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160930      |
| EP2809589 A1 | 20161130 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : LV<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629      |
| EP2809589 A1 | 20161215 | LSRV | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : AT<br>REF LEGAL EVENT CODE : MK05<br>REF DOCUMENT NUMBER : 808906<br>COUNTRY OF REF DOCUMENT : AT<br>KIND CODE OF REF DOCUMENT : T<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20160629   |
| EP2809589 A1 | 20161220 | LSGT | REG   | REFERENCE TO A NATIONAL CODE                                                          | REF COUNTRY CODE : ES<br>REF LEGAL EVENT CODE : FG2A<br>REF DOCUMENT NUMBER : 2594412<br>COUNTRY OF REF DOCUMENT : ES<br>KIND CODE OF REF DOCUMENT : T3<br>DESIGNATED STATE(S) :<br>EFFECTIVE DATE : 20161220 |
| EP2809589 A1 | 20161222 | LSFE | REG   | REFERENCE TO A NATIONAL CODE                                                          | COUNTRY OF REF DOCUMENT : FR<br>REF COUNTRY CODE : FR<br>REF LEGAL EVENT CODE : PLFP<br>YEAR OF FEE PAYMENT : 5                                                                                               |
| EP2809589 A1 | 20170131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : IS<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20161029      |
| EP2809589 A1 | 20170131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : CZ<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629      |

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| EP2809589 A1 | 20170131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : EE<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629 |
| EP2809589 A1 | 20170131 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SK<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629 |
| EP2809589 A1 | 20170131 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : GB<br>PAYMENT DATE : 20161222<br>YEAR OF FEE PAYMENT : 5                                                                                                                       |
| EP2809589 A1 | 20170131 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : IE<br>PAYMENT DATE : 20161227<br>YEAR OF FEE PAYMENT : 5                                                                                                                       |
| EP2809589 A1 | 20170131 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : LU<br>PAYMENT DATE : 20161227<br>YEAR OF FEE PAYMENT : 5                                                                                                                       |
| EP2809589 A1 | 20170228 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : SM<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629 |
| EP2809589 A1 | 20170228 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : AT<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629 |
| EP2809589 A1 | 20170228 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : BE<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20160629 |
| EP2809589 A1 | 20170228 | LSLE | -PG25 | LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO | COUNTRY OF REF DOCUMENT : PT<br>NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT<br>LAPSED DATE : 20161031 |
| EP2809589 A1 | 20170228 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : ES<br>PAYMENT DATE : 20161213<br>YEAR OF FEE PAYMENT : 5                                                                                                                       |
| EP2809589 A1 | 20170228 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : BG<br>PAYMENT DATE : 20161223<br>YEAR OF FEE PAYMENT : 5                                                                                                                       |
| EP2809589 A1 | 20170228 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : FR<br>PAYMENT DATE : 20161222<br>YEAR OF FEE PAYMENT : 5                                                                                                                       |
| EP2809589 A1 | 20170228 | LSFE | +PGFP | POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE                                        | COUNTRY OF REF DOCUMENT : PL<br>PAYMENT DATE : 20161206<br>YEAR OF FEE PAYMENT : 5                                                                                                                       |

|                 |          |      |       |                                                                                              |                                                                                                                        |
|-----------------|----------|------|-------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| EP2809589 A1    | 20170228 | LSFE | +PGFP | POSTGRANT :<br>ANNUAL FEES PAID<br>TO NATIONAL<br>OFFICE                                     | COUNTRY OF REF DOCUMENT :<br>RO<br>PAYMENT DATE : 20161205<br>YEAR OF FEE PAYMENT : 5                                  |
| EP2809589 A1    | 20170428 | LSFE | +PGFP | POSTGRANT :<br>ANNUAL FEES PAID<br>TO NATIONAL<br>OFFICE                                     | COUNTRY OF REF DOCUMENT :<br>TR<br>PAYMENT DATE : 20161201<br>YEAR OF FEE PAYMENT : 5                                  |
| EP2809589 B1    | 20160629 | LSGT | +     | granted /<br>extensions (spc,<br>cpc, pte)                                                   |                                                                                                                        |
| ES2594412 T3    | 20161220 | LSGT | +     | granted /<br>extensions (spc,<br>cpc, pte)                                                   |                                                                                                                        |
| GB201201976 A0  | 20130925 | LSWD | -AT   | APPLICATIONS<br>TERMINATED<br>BEFORE<br>PUBLICATION<br>UNDER SECTION<br>16(1)                |                                                                                                                        |
| JP2015509064 T2 | 20150326 | LSPB | +     | published /<br>reissued                                                                      |                                                                                                                        |
| JP2015509064 T2 | 20151102 | LSES | +A621 | WRITTEN REQUEST<br>FOR APPLICATION<br>EXAMINATION                                            | TEXT : JAPANESE INTERMEDIATE<br>CODE: A621<br>EFFECTIVE DATE : 20151102                                                |
| JP2015509064 T2 | 20160927 | LSES | -A131 | NOTIFICATION OF<br>REASONS FOR<br>REFUSAL                                                    | TEXT : JAPANESE INTERMEDIATE<br>CODE: A131<br>EFFECTIVE DATE : 20160927                                                |
| JP2015509064 T2 | 20161109 | LSRE | A521  | WRITTEN<br>AMENDMENT                                                                         | TEXT : JAPANESE INTERMEDIATE<br>CODE: A523<br>EFFECTIVE DATE : 20161109                                                |
| JP2015509064 T2 | 20161130 | LSGT | +TRDD | DECISION OF<br>GRANT OR<br>REJECTION<br>WRITTEN                                              |                                                                                                                        |
| JP2015509064 T2 | 20161205 | LSGT | +A01  | WRITTEN DECISION<br>TO GRANT A<br>PATENT OR TO<br>GRANT A<br>REGISTRATION<br>(UTILITY MODEL) | TEXT : JAPANESE INTERMEDIATE<br>CODE: A01<br>EFFECTIVE DATE : 20161205                                                 |
| JP2015509064 T2 | 20170105 | LSFE | +A61  | FIRST PAYMENT OF<br>ANNUAL FEES<br>(DURING GRANT<br>PROCEDURE)                               | TEXT : JAPANESE INTERMEDIATE<br>CODE: A61<br>EFFECTIVE DATE : 20161221                                                 |
| JP2015509064 T2 | 20170106 | LSGT | +R150 | CERTIFICATE OF<br>PATENT OR<br>REGISTRATION OF<br>UTILITY MODEL                              | TEXT : JAPANESE INTERMEDIATE<br>CODE: R150<br>REF DOCUMENT NUMBER :<br>6067751<br>COUNTRY OF REF DOCUMENT :<br>JP      |
| JP6067751 B2    | 20170125 | LSGT | +     | granted /<br>extensions (spc,<br>cpc, pte)                                                   |                                                                                                                        |
| MX2014009278 A1 | 20140911 | LSPB | +     | published /<br>reissued                                                                      |                                                                                                                        |
| MX2014009278 A1 | 20170118 | LSGT | +FG   | GRANT OR<br>REGISTRATION                                                                     |                                                                                                                        |
| PE24272014 A1   | 20150213 | LSPB | +     | published /<br>reissued                                                                      |                                                                                                                        |
| PE24272014 A1   | 20150824 | LSWD | -FA   | ABANDONMENT OR<br>WITHDRAWAL                                                                 |                                                                                                                        |
| PH2014501691 A  | 20141110 | LSPB | +     | published /<br>reissued                                                                      |                                                                                                                        |
| PL2809589 T3    | 20170228 | LSGT | +     | granted /<br>extensions (spc,<br>cpc, pte)                                                   |                                                                                                                        |
| RU2014131782 A  | 20160327 | LSPB | +     | published /<br>reissued                                                                      |                                                                                                                        |
| RU2612853 C2    | 20170313 | LSGT | +     | granted /<br>extensions (spc,<br>cpc, pte)                                                   |                                                                                                                        |
| US2014183195 AA | 20140703 | LSPB | +     | published /<br>reissued                                                                      |                                                                                                                        |
| US2014183195 AA | 20130416 | LSAS | AS    | ASSIGNMENT                                                                                   | OWNER NAME : OBRIST<br>CLOSURES SWITZERLAND GMBH,<br>SWITZERLAND<br>DESCRIPTION : ASSIGNMENT OF<br>ASSIGNORS INTEREST; |

ASSIGNOR:MCPHERSON,  
ALEXANDER DONALD MEIKLEM;  
REEL/FRAME:030227/0589  
EFFECTIVE DATE : 20130318

|               |          |      |      |                                                      |                                                                                                            |
|---------------|----------|------|------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| US9010554 BB  | 20150421 | LSGT | +    | granted /<br>extensions (spc,<br>cpc, pte)           |                                                                                                            |
| US9010554 BB  | 20150401 | LSGT | PAT1 | Patented Case                                        |                                                                                                            |
| WO13113435 A1 | 20130808 | LSPB | +    | published /<br>reissued                              |                                                                                                            |
| WO13113435 A1 | 20130318 | LSNP | +WWE | WIPO<br>INFORMATION:<br>ENTRY INTO<br>NATIONAL PHASE | REF DOCUMENT NUMBER :<br>13824936<br>COUNTRY OF REF DOCUMENT :<br>US                                       |
| WO13113435 A1 | 20140728 | LSNP | ENP  | ENTRY INTO THE<br>NATIONAL PHASE<br>IN:              | REF DOCUMENT NUMBER :<br>2014555104<br>COUNTRY OF REF DOCUMENT :<br>JP<br>KIND CODE OF REF DOCUMENT :<br>A |
| WO13113435 A1 | 20140804 | LSNE | NENP | NON-ENTRY INTO<br>THE NATIONAL<br>PHASE IN:          | REF COUNTRY CODE : DE                                                                                      |