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16:
Search 16 or 8 or 10 or 11 (Results 22)
17:
Search PN=(WO17062033) (Results 1)
18:
Search DISPOSABLE TOOTHBRUSH (Results 440)
19:
Search IPC=(A46B11/02) and 19 (Results 102)
20:
Search 4 and IPC=(A46B11/02) (Results 240)
21:
Search 17 or 18 (Results 23)
22:

Title: FOUNTAIN TOOTHBRUSH

Abstract: Source: US1944067A 1. A tooth brush comprising a reservoir section, a shank section having a feed channel in communication with the reservoir section, a valve member rotatable in the shank section transversely thereof and having a port to communicate with the feed channel, a brush head carried by the valve member to rotate the latter and having a material discharge way controlled by the valve member, and means for applying pressure upon the material in the reservoir section.

Classifications:

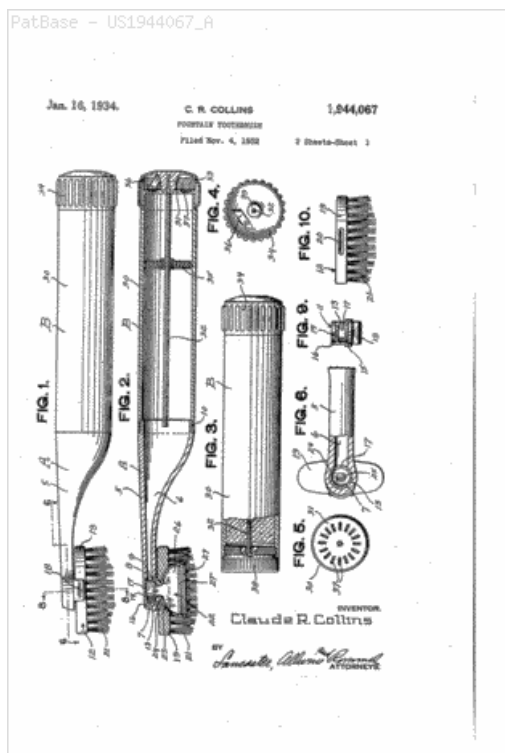
International (IPC 8-9): A46B11/00 (Advanced/Invention);
A46B11/00 (Core/Invention)

International (IPC 1-7): A46B11/00

CPC: A46B11/0079

European: A46B11/00E2

US: 401/175 401/271 401/280 401/286



Family:

Publication number	Publication date	Application number	Application date
US1944067 A	19340116	US19320641285	19321104

Priority:

US19320641285 19321104

Probable Assignee:

COLLINS CLAUDE R

Assignee(s): (std):

COLLINS CLAUDE R

Inventor(s): (std):

COLLINS CLAUDE R

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US1944067 A	19340116	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: TOOTHBRUSH

Abstract: Source: US1950767A 1. A tooth brush comprising a handle and a body portion, bristles imbedded in and extending from the body portion, the walls of the body portion surrounding an opening therein adapted to receive and pass a dentifrice and a plug fitting into the opening, having a pusher surface at its forward end adapted to :force dentifrice through the opening and into the space between the bristles. ,

Classifications:

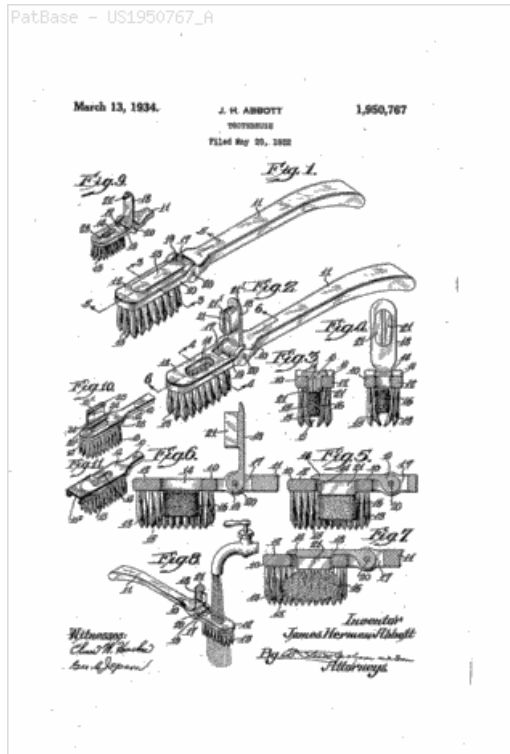
International (IPC 8-9): A46B11/00 A46B11/04 (Advanced/Invention); A46B11/00 (Core/Invention)

International (IPC 1-7): A46B11/00 A46B17/06

CPC: A46B11/001

European: A46B11/00C

US: 132/308 401/268 401/288 401/40



Family:

Publication number	Publication date	Application number	Application date
US1950767 A	19340313	US19320612476	19320520

Priority:

US19320612476 19320520

Probable Assignee: HERMAN ABBOTT JAMES

Assignee(s): (std): HERMAN ABBOTT JAMES

Inventor(s): (std): HERMAN ABBOTT JAMES

Inventor(s): ABBOTT JAMES HERMAN

Legal status (INPADOC)

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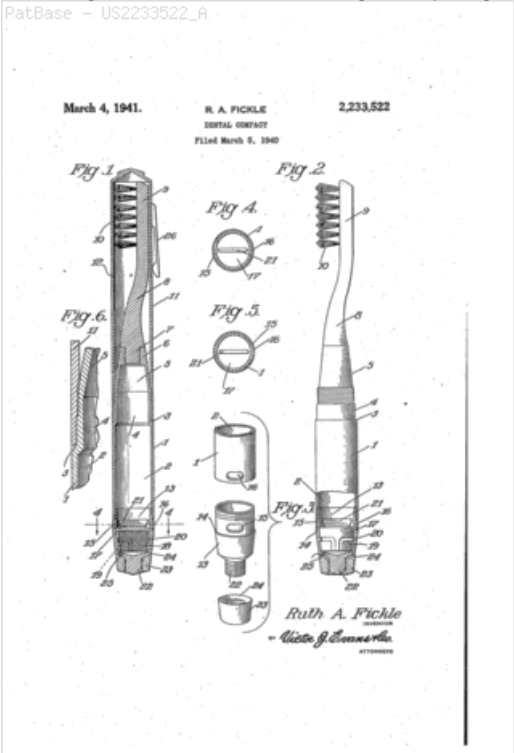
Patent	Date recorded	Event group	Code	Event	Details
US1950767 A	19340313	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: DENTAL COMPACT

Abstract: Source: US2233522A 1. In a dental compact, a. container providing a brush handle having an open end, a cap for closing the open end, said cap being hollow to provide a receptacle. a holder for receiving dental nose and Zlitting within the cap, teats formed within the cap upon diametrically opposite sides thereof, said holder having bayonet slots therein for receiving the tests for detachably securing the holder withln 'the cap, said cap having an opening therein for the passage of the floss therethrough. and means threadedly associated with the cap for cutting the Boss that extends through the opening.

Classifications:

International (IPC 8-9): A46B11/00 A46B15/00 A46B17/04 (Advanced/Invention); A46B11/00 A46B15/00 A46B17/00 (Core/Invention)
International (IPC 1-7): A45D44/18 A46B17/04
CPC: A46B11/001 A46B15/0071 A46B17/04 A46B2200/1066
European: A46B11/00C A46B15/00C7A A46B17/04 K46B200/10G
US: 132/309 132/325 15/184 401/124



Family:

Publication number	Publication date	Application number	Application date
US2233522 A	19410304	US19400322394	19400305

Priority:

US19400322394 19400305

Probable Assignee:

FICKLE RUTH A

Assignee(s): (std):

FICKLE RUTH A

Inventor(s): (std):

FICKLE RUTH A

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2233522 A	19410304	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: DISPOSABLE TOOTHBRUSH

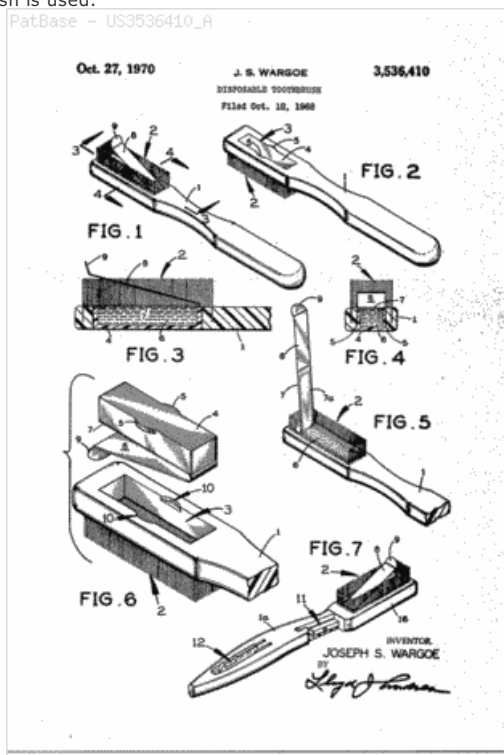
Abstract: Source: US3536410A (Claim 1) 1. A disposable toothbrush comprising a plastic body member havin- a handle and brush portion, art elongated aperture centrally extending through said _brush portion, a plurality of bristles molded in and extending from one side of said brush portion and adjacent said aperture, an elongated plastic container open at one side thereof frictionally retained in said aperture with the open side thereof facing the bristle side of said brush portion, a predetermined quantity of dentifrice in said container, a plastic film closure for said container, adhesive means for sealing said closure on said container over said open side thereof whereby the manual removal of said closure from said container will permit the said dentifrice to permeate said bristles when said brush is used.

Classifications:**International (IPC 8-9):** A46B11/00 (Advanced/Invention);

A46B11/00 (Core/Invention)

International (IPC 1-7): A46B11/00**CPC:** A46B11/0003**European:** A46B11/00A**US:** 401/132 401/268

PatBase - US3536410_A

**Family:**

Publication number	Publication date	Application number	Application date
US3536410 A	19701027	US19680768827	19681018

Priority:

US19680768827 19681018

Probable Assignee:

OGRAW PRODUCTS INC

Assignee(s): (std):

OGRAW PRODUCTS INC

Inventor(s): (std):

WARGOE JOSEPH S

Inventor(s):

JOSEPH S WARGOE

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US3536410 A	19701027	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: DISPOSABLE TOOTHBRUSH

Abstract: Source: US4530129A A disposable toothbrush assembly, including a wrapper containing an inexpensively made toothbrush, a small amount of toothpaste and a short length of rolled up dental floss, so to form an inexpensive package.

Classifications:

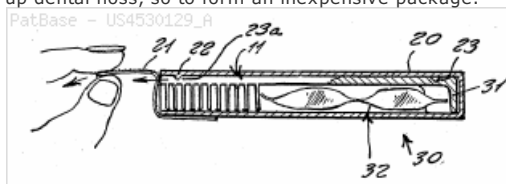
International (IPC 8-9): A46B11/00 A46B7/02 (Advanced/Invention);
A46B11/00 A46B7/00 (Core/Invention)

International (IPC 1-7): A46B9/04

CPC: Y10S206/804 A46B15/0091 A46B7/023 A46B11/0003
A46B2200/1066

European: A46B11/00A A46B15/00G A46B7/02A K46B200/10G

US: 132/308 132/84B 15/184 206/362.3 206/63.5 206/635 206/804
401/132 401/195 401/268



Family:

Publication number	Publication date	Application number	Application date
US4530129 A	19850723	US19820421469	19820922

Priority:

US19820421469 19820922

Probable Assignee: LABICK RICHARD A

Assignee(s): (std): LABICK RICHARD A ; SPECTOR GEORGE

Inventor(s): (std): LABICK RICHARD A ; SPECTOR GEORGE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4530129 A	19850723	LSGT	+	granted / extensions (spc, cpc, pte)	
US4530129 A	19890723	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4530129 A	19891010	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19890723

Title: Collapsible toothbrush construction

Abstract: Source: US4866809A A collapsible toothbrush as disclosed having three telescopically mounted portions defining the handle, all of which portions are hollow so as to receive in their collapsed condition a tube of toothpaste. The brush in its collapsed condition is preferably overwrapped with a small paper cup, and a cover is provided for the bristles. The entire assembly is shrink wrapped to permit dispensing from conventional vending machines.

Classifications:

International (IPC 8-9): A46B15/00 A46B5/00 (Advanced/Invention)

International (IPC 1-7): B41J25/24

CPC: A46B5/0033 A46B5/005 A46B15/0055 A46B15/0061

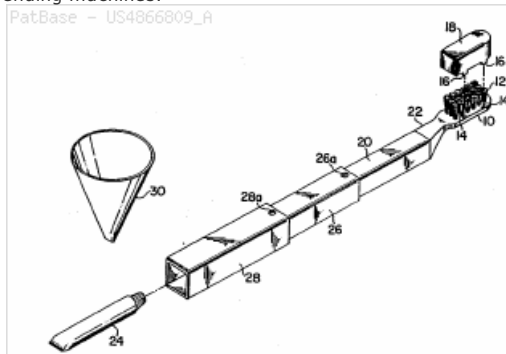
A46B17/04 A46B2200/1066

European: A46B15/00C A46B15/00C3 A46B17/04 A46B5/00B2

A46B5/00B2D K46B200/10G

US: 132/308 132/311 15/167.1 206/217 206/218 206/581 220/8401/125 401/269

PatBase - US4866809_A



Family:

Publication number	Publication date	Application number	Application date
US4866809 A	19890919	US19880219977	19880715

Priority:

US19880219977 19880715

Probable Assignee:

PELLETIER RANDY

Assignee(s): (std):

PELLETIER RANDY

Inventor(s): (std):

PELLETIER RANDY

Legal status (INPADOC)

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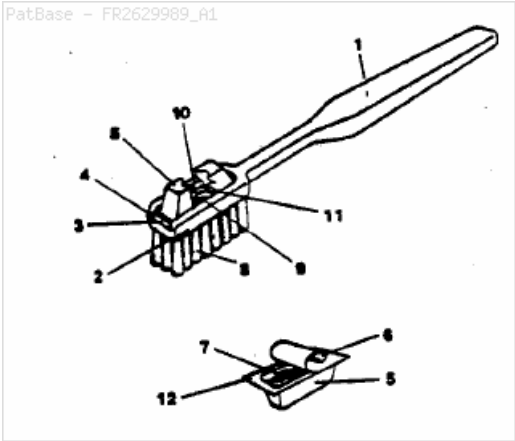
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US4866809 A	19890919	LSGT	+	granted / extensions (spc, cpc, pte)	
US4866809 A	19930614	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4866809 A	19970921	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4866809 A	19971202	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19970924

Title: Toothbrush with lined cell

Abstract: The invention relates to a brush for oral and dental hygiene, incorporating a toothpaste product in a protectively sealed cell in a leaktight manner. It is composed of a handle 1 for gripping, of a tufted head 2 in which a seat 3 is arranged, which has a slide 4 in which is inserted, according to a longitudinal axis, a cell 5 which is protectively sealed by a film and which contains the toothpaste product. The supply of the toothpaste onto the bristles 8 through transfer orifices 9 provided in the head is caused by finger pressure which gives rise, due to its irreversible deformation, to the perforation of the film by the sharp edges 10 of the relief bordering the transfer orifice. This invention offers its user a brush equipped with its toothpaste, whose independence and simplicity of use is intended more particularly for the hotel trade, for the catering trade, for pharmacies and for supermarkets.

Classifications:

International (IPC 8-9): A46B11/00 (Advanced/Invention)
International (IPC 1-7): A46B11/02
CPC: A46B11/0003 A46B2200/1066
European: A46B11/00A K46B200/10G



Family:

Publication number	Publication date	Application number	Application date
FR2629989 A1	19891020	FR19880005262	19880415

Priority:

FR19880005262 19880415

Probable Assignee: CAMARA NABY

Assignee(s): (std): CAMARA NABY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2629989 A1	19891020	LSPB	+	published / reissued	

Title: Portable dental care unit

Abstract: Source: US5044386A A portable dental care unit is disclosed, including an upper piece and a lower piece. The upper piece has a head portion and bristles which are attached to, and extend generally laterally from the head portion. A base of the upper piece is selectively attached to the lower piece such that the lower piece forms a handle for the toothbrush apparatus. An intermediate portion interconnects the head portion and the base portion and includes a recessed region formed below the bristles. The lower piece has a receptacle for accommodating a first dentifrice therein. A container is received by the recessed region for holding a second dentifrice therein. A closure is selectively engaged with the toothbrush apparatus for provisionally enclosing at least the head portion and the bristles of the upper piece between uses.

Classifications:

International (IPC 8-9): A45D44/18 A46B11/00 A46B15/00

A46B17/04 A46B5/00 (Advanced/Invention)

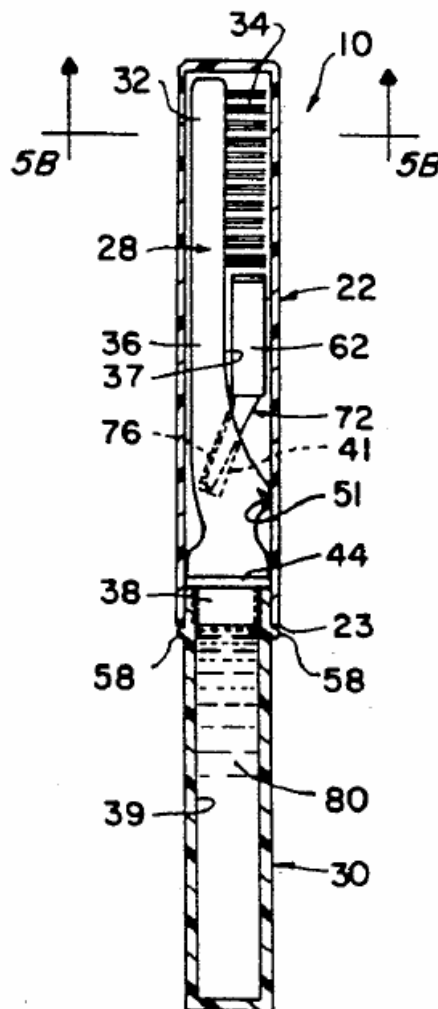
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European: A45D44/18 A46B11/00 A46B11/00E2D A46B15/00 A46B15/00C3 A46B15/00C6 A46B15/00J A46B17/04 A46B5/00C A46B7/04C K46B200/10G

US: 132/309 132/324 401/123 401/125 401/269

PatBase - US5044386_A



Family:

Publication number	Publication date	Application number	Application date
US5044386 A	19910903	US19900519162	19900504

Priority:

US19900519162 19900504

Probable Assignee:

NELSON GARY M

Assignee(s): (std):

NELSON GARY M

Inventor(s): (std):

NELSON GARY M

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5044386 A	19910903	LSGT	+	granted / extensions (spc, cpc, pte)	
US5044386 A	19930223	LSRE	CC	CERTIFICATE OF CORRECTION	
US5044386 A	19950209	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5044386 A	19990905	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5044386 A	19991116	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19990903

Title: Disposable toothcare assembly

Abstract: Source: US5490530A A toothcare assembly includes a handle having a dental floss dispensing assembly on one end and tooth brushing bristles mounted thereon adjacent to a head end. A chamber for storing toothpaste is defined in the head end, and dispensing holes connect the chamber to the surface of the head adjacent to the bristles. A flexible diaphragm is mounted on the head adjacent to the chamber and, when pressed, forces toothpaste through the dispensing holes into contact with the bristles. A chamber closing element is slidably mounted on the head to cover the dispensing holes in the chamber to prevent toothpaste from moving through the dispensing holes, and is slidably moved out of hole-covering position when it is desired to dispense toothpaste.

Classifications:

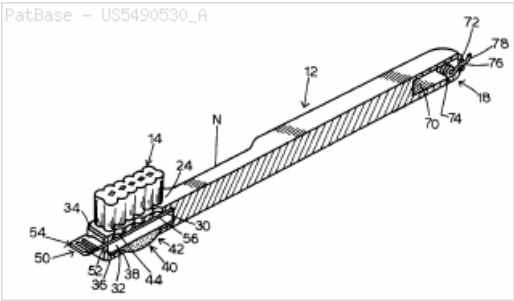
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International (IPC 1-7): A46B11/02

CPC: A46B11/0003 A46B15/0071

European: A46B11/00A A46B15/00C7A

US: 132/308 132/311 401/268 401/280



Family:

Publication number	Publication date	Application number	Application date
US5490530 A	19960213	US19940237295	19940503

Priority:

US19940237295 19940503

Probable Assignee:	SNOWDEN PATRICIA
Assignee(s): (std):	SNOWDEN PATRICIA
Inventor(s): (std):	SNOWDEN PATRICIA

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Patent	Date recorded	Event group	Code	Event	Details
US5490530 A	19960213	LSGT	+	granted / extensions (spc, cpc, pte)	
US5490530 A	20000213	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5490530 A	20000425	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20000213

Title: ORAL CARE TOOTHBRUSH

Abstract: Source: US2004237226A An oral care toothbrush includes a head mounted to one end of the handle containing a plurality of oral care elements. An oral care accessory is mounted to the opposite end of the handle. An oral care material dispenser is mounted in the head within the cleaning field defined by the oral care elements. The toothbrush is preferably made of small size and of lightweight so as to be readily portable for use away from the home.

Classifications:

International (IPC 8-9): A45B11/00 A45D44/18 A46B1/00 A46B11/00 A46B11/02 A46B11/04 A46B13/00 A46B13/08 A46B15/00 A46B5/00 A46B5/02 A46B7/00 A46B7/04 A46B9/00 A46B9/02 A46B9/04 A47L13/22 A61C15/00 A61C15/02 B43K5/00 B43K5/14 B43M11/06 (Advanced/Invention); A46B11/00 A46B13/00 A46B13/02 A46B15/00 A46B7/00 A46B9/04 A61C17/02 (Advanced/Non-invention); A45B11/00 A46B1/00 A46B11/00 A46B15/00 A46B7/00 A46B9/00 A46B9/04 A47L13/20 B43K5/00 (Core/Invention); A46B13/08 (Core/Non-invention); A46B A61C (Subclass/Invention)

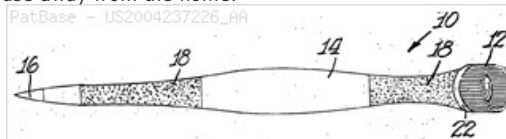
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European: A46B11/00A A46B11/00B A46B11/00C10 A46B11/00C6C A46B15/00C A46B15/00C11 A46B15/00C7 A46B15/00E A46B15/00H A46B5/00B6B A46B5/00B6B4 A46B5/00C A46B5/02D A46B7/04 A46B9/00E A46B9/04 A61C15/02 K46B13/02 K46B200/01 K46B200/10G K61C17/02

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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 YU ZA ZM ZW

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Patent	Date recorded	Event group	Code	Event	Details

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EP1545263 A2	20101124	LSSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20101021

EP1545263 A2	20110330	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20110224
EP1545263 A2	20120425	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 11/00 20060101AFI20120316BHEP
EP1545263 A2	20120425	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61C 15/02 20060101ALI20120316BHEP
EP1545263 A2	20121107	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1545263 A2	20121115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1545263 A2	20121115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 582633 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20121115
EP1545263 A2	20121205	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1545263 A2	20130103	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 60342552 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130103
EP1545263 A2	20130227	LSRE	RIN2	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HOHLBEIN, DOUGLAS, J.
EP1545263 A2	20130313	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP1545263 A2	20130315	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 582633 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20121107
EP1545263 A2	20130320	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2398653 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20130320
EP1545263 A2	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20130510	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1075372 COUNTRY OF REF DOCUMENT : HK
EP1545263 A2	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20130531	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT : GR

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130208
EP1545263 A2	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130307
EP1545263 A2	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130307
EP1545263 A2	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130207
EP1545263 A2	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107

EP1545263 A2	20131016	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20130808
EP1545263 A2	20131028	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E017002 COUNTRY OF REF DOCUMENT : HU
EP1545263 A2	20131205	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 60342552 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130808
EP1545263 A2	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121107
EP1545263 A2	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130904
EP1545263 A2	20150917	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 13
EP1545263 A2	20151030	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20150928 YEAR OF FEE PAYMENT : 13
EP1545263 A2	20151130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20150928 YEAR OF FEE PAYMENT : 13
EP1545263 A2	20151130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20150824 YEAR OF FEE PAYMENT : 13
EP1545263 A2	20151231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20150923 YEAR OF FEE PAYMENT : 13
EP1545263 A2	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20150929 YEAR OF FEE PAYMENT : 13
EP1545263 A2	20160926	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 14
EP1545263 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 14
EP1545263 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 14
EP1545263 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 14
EP1545263 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 14
EP1545263 A2	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 14

EP1545263 A2	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20160822 YEAR OF FEE PAYMENT : 14
EP1545263 A2	20161230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20160819 YEAR OF FEE PAYMENT : 14
EP1545263 A2	20161230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 14
EP1545263 A2	20161230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 14
EP1545263 A2	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160928 YEAR OF FEE PAYMENT : 14
EP1545263 A2	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160923 YEAR OF FEE PAYMENT : 14
EP1545263 B1	20121107	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1750542 A2	20070214	LSPB	+	published / reissued	
EP1750542 A2	20070214	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20061208
EP1750542 A2	20070606	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20070508
EP1750542 A2	20130220	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : MINTEL, THOMAS, E.
EP1750542 A2	20130220	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : KEMP, JAMES
EP1750542 A2	20130220	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HOHLBEIN, DOUGLAS, J.
EP1750542 A2	20130220	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SORRENTINO, ALAN, V.
EP1750542 A2	20160622	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	PARTYTYPE : OWNER OWNER : COLGATE-PALMOLIVE COMPANY
EP1750542 A2	20161209	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : WD REF DOCUMENT NUMBER : 1099908 COUNTRY OF REF DOCUMENT : HK
EP1962638 A1	20080903	LSPB	+	published / reissued	
EP1962638 A1	20080903	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20080701
EP1962638 A1	20100929	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100827
EP1962638 A1	20130116	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1962638 A1	20130131	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1962638 A1	20130213	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1962638 A1	20130215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1962638 A1	20130215	LSNP	REG	REFERENCE TO A	REF COUNTRY CODE : AT

				NATIONAL CODE	REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 593388 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20130215
EP1962638 A1	20130314	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602006034297 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130314
EP1962638 A1	20130509	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2402867 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20130509
EP1962638 A1	20130522	LSRE	RIN2	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HOHLBEIN, DOUGLAS, J.
EP1962638 A1	20130605	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP1962638 A1	20130615	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 593388 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20130116
EP1962638 A1	20130625	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP1962638 A1	20130726	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1119033 COUNTRY OF REF DOCUMENT : HK
EP1962638 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130416
EP1962638 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE

				INFORM. FROM NAT. OFFICE TO EPO	WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130516
EP1962638 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130417
EP1962638 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130516
EP1962638 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20130116
EP1962638 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A

				ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130116
EP1962638 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130116
EP1962638 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130116
EP1962638 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130116
EP1962638 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130116
EP1962638 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130116
EP1962638 A1	20131225	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20131017
EP1962638 A1	20140213	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602006034297 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20131017
EP1962638 A1	20140328	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E018635 COUNTRY OF REF DOCUMENT : HU
EP1962638 A1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20130116
EP1962638 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131220
EP1962638 A1	20150130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20141124 YEAR OF FEE PAYMENT : 9
EP1962638 A1	20150331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20141218 YEAR OF FEE PAYMENT : 9
EP1962638 A1	20151217	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR

					REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 10
EP1962638 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151229 YEAR OF FEE PAYMENT : 10
EP1962638 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20151228 YEAR OF FEE PAYMENT : 10
EP1962638 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20151231 YEAR OF FEE PAYMENT : 10
EP1962638 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20151226 YEAR OF FEE PAYMENT : 10
EP1962638 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151217 YEAR OF FEE PAYMENT : 10
EP1962638 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20151202 YEAR OF FEE PAYMENT : 10
EP1962638 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20151228 YEAR OF FEE PAYMENT : 10
EP1962638 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151229 YEAR OF FEE PAYMENT : 10
EP1962638 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20151228 YEAR OF FEE PAYMENT : 10
EP1962638 A1	20161227	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 11
EP1962638 A1	20161230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151220
EP1962638 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20161228 YEAR OF FEE PAYMENT : 11
EP1962638 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20161226 YEAR OF FEE PAYMENT : 11
EP1962638 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20161214 YEAR OF FEE PAYMENT : 11
EP1962638 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20161227 YEAR OF FEE PAYMENT : 11
EP1962638 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20161229 YEAR OF FEE PAYMENT : 11
EP1962638 A1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20161227 YEAR OF FEE PAYMENT : 11

EP1962638 A1	20170228	LSFE	+PGFP	POSTGRANT : ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20161227 YEAR OF FEE PAYMENT : 11
EP1962638 A1	20170428	LSFE	+PGFP	POSTGRANT : ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161229 YEAR OF FEE PAYMENT : 11
EP1962638 A1	20170428	LSFE	+PGFP	POSTGRANT : ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20161207 YEAR OF FEE PAYMENT : 11
EP1962638 B1	20130116	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2179677 A1	20100428	LSPB	+	published / reissued	
EP2179677 A1	20101124	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20101019
EP2179677 A1	20101208	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20101111
EP2179677 A1	20130220	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HOHLBEIN, DOUGLAS, J.
EP2179677 A1	20130220	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : KEMP, JAMES
EP2179677 A1	20130220	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SORRENTINO, ALAN, V.
EP2179677 A1	20130220	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : MINTEL, THOMAS, E.
EP2179677 A1	20161209	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : WD REF DOCUMENT NUMBER : 1141953 COUNTRY OF REF DOCUMENT : HK
EP2247218 A1	20101110	LSPB	+	published / reissued	
EP2247218 A1	20101110	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100803
EP2247218 A1	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SPROSTA, AL
EP2247218 A1	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SORRENTINO, ALAN
EP2247218 A1	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HOHLBEIN, DOUGLAS, J.
EP2247218 A1	20150527	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20150423
EP2247218 A1	20160113	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 15/00 20060101ALI20151207BHEP
EP2247218 A1	20160113	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 9/00 20060101AFI20151207BHEP
EP2247218 A1	20160113	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 9/04 20060101ALI20151207BHEP
EP2247218 A1	20160113	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 11/00 20060101ALI20151207BHEP
EP2247218 A1	20160224	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20160129
EP2247218 A1	20160720	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20160622

EP2247218 A1	20160810	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2247218 A1	20160815	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2247218 A1	20160815	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 818141 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20160815
EP2247218 A1	20160907	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2247218 A1	20160922	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602009040213 COUNTRY OF REF DOCUMENT : DE
EP2247218 A1	20161212	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2247218 A1	20170115	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 818141 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20160810
EP2247218 A1	20170125	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2247218 A1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20161110
EP2247218 A1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20161210
EP2247218 A1	20170131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20161212
EP2247218 A1	20170228	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT : ES

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20161111
EP2247218 A1	20170331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170126 YEAR OF FEE PAYMENT : 9
EP2247218 A1	20170428	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170428	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20160810
EP2247218 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170125 YEAR OF FEE PAYMENT : 9
EP2247218 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20170127 YEAR OF FEE PAYMENT : 9
EP2247218 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170125 YEAR OF FEE PAYMENT : 9
EP2247218 B1	20160810	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2319362 A1	20110511	LSPB	+	published / reissued	

EP2319362 A1	20111123	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20111014
EP2319362 A1	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SPROSTA, AL
EP2319362 A1	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HOHLBEIN, DOUGLAS, J.
EP2319362 A1	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SORRENTINO, ALAN
EP2319362 A1	20140115	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 9/04 20060101AFI20131211BHEP
EP2319362 A1	20140115	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 11/00 20060101ALI20131211BHEP
EP2319362 A1	20140115	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 9/00 20060101ALI20131211BHEP
EP2319362 A1	20140115	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 15/00 20060101ALI20131211BHEP
EP2319362 A1	20140319	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20140220
EP2319362 A1	20140917	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2319362 A1	20140930	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2319362 A1	20141008	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2319362 A1	20141015	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 687274 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20141015
EP2319362 A1	20141030	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602009026781 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20141030
EP2319362 A1	20141212	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2524815 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20141212
EP2319362 A1	20150107	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP2319362 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20141218
EP2319362 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20141217
EP2319362 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE

				POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150225	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2319362 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150315	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 687274 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20140917
EP2319362 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20150119
EP2319362 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20150117
EP2319362 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140917

EP2319362 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150618	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602009026781 COUNTRY OF REF DOCUMENT : DE
EP2319362 A1	20150717	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1156196 COUNTRY OF REF DOCUMENT : HK
EP2319362 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140917
EP2319362 A1	20150826	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20150618
EP2319362 A1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150105
EP2319362 A1	20150930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140917
EP2319362 A1	20151130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140917
EP2319362 A1	20151130	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E024072 COUNTRY OF REF DOCUMENT : HU
EP2319362 A1	20160126	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 8

EP2319362 A1	20160331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160126 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160126 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160122 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20160105 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20151223 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160126 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2319362 A1	20161230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140917
EP2319362 A1	20170125	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2319362 A1	20170331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170126 YEAR OF FEE PAYMENT : 9
EP2319362 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20170127 YEAR OF FEE PAYMENT : 9
EP2319362 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170125 YEAR OF FEE PAYMENT : 9
EP2319362 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170125 YEAR OF FEE PAYMENT : 9
EP2319362 B1	20140917	LSGT	+	granted /	

EP2322053 A1	20110518	LSPB	+	extensions (spc, cpc, pte) published / reissued	
EP2322053 A1	20111221	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20111109
EP2322053 A1	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SPROSTA, AL
EP2322053 A1	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : SORRENTINO, ALAN
EP2322053 A1	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HOHLBEIN, DOUGLAS, J.
EP2322053 A1	20140115	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 11/00 20060101ALI20131211BHEP
EP2322053 A1	20140115	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 9/04 20060101ALI20131211BHEP
EP2322053 A1	20140115	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 15/00 20060101ALI20131211BHEP
EP2322053 A1	20140115	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 9/00 20060101AFI20131211BHEP
EP2322053 A1	20140326	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20140225
EP2322053 A1	20140723	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2322053 A1	20140731	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2322053 A1	20140813	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2322053 A1	20140815	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 678347 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20140815
EP2322053 A1	20140904	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602009025590 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140904
EP2322053 A1	20140922	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2496986 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20140922
EP2322053 A1	20141105	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP2322053 A1	20141215	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 678347 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20140723
EP2322053 A1	20141229	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2322053 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM	COUNTRY OF REF DOCUMENT : NO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-

				NAT. OFFICE TO EPO	LIMIT LAPSED DATE : 20141023
EP2322053 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141024
EP2322053 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141023
EP2322053 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141124
EP2322053 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150213	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1156197 COUNTRY OF REF DOCUMENT : HK
EP2322053 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IS NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141123
EP2322053 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723

EP2322053 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150302	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E021688 COUNTRY OF REF DOCUMENT : HU
EP2322053 A1	20150424	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602009025590 COUNTRY OF REF DOCUMENT : DE
EP2322053 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20150701	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20150424
EP2322053 A1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150105
EP2322053 A1	20150930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723

EP2322053 A1	20151130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20160126	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160126 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160126 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160122 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20160105 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160126 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : HU PAYMENT DATE : 20151223 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160127 YEAR OF FEE PAYMENT : 8
EP2322053 A1	20161230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140723
EP2322053 A1	20170125	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2322053 A1	20170331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170126 YEAR OF FEE PAYMENT : 9
EP2322053 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170125 YEAR OF FEE PAYMENT : 9

EP2322053 A1	20170428	LSFE	+PGFP	OFFICE POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170125 YEAR OF FEE PAYMENT : 9
EP2322053 A1	20170428	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20170127 YEAR OF FEE PAYMENT : 9
EP2322053 B1	20140723	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2537436 A2	20121226	LSPB	+	published / reissued	
EP2537436 A2	20130227	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : HOHLBEIN, DOUGLAS, J.
EP2537436 A2	20130807	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 11/00 20060101ALI20130703BHEP
EP2537436 A2	20130807	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A46B 9/04 20060101AFI20130703BHEP
EP2537436 A2	20130807	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61C 15/02 20060101ALI20130703BHEP
EP2537436 A2	20140319	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20140205
EP2537436 A2	20140416	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20140317
EP2537436 A2	20141126	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20141031
EP2537436 A2	20150401	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2537436 A2	20150415	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2537436 A2	20150422	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2537436 A2	20150513	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 60347474 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20150513
EP2537436 A2	20150515	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 718570 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20150515
EP2537436 A2	20150715	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP2537436 A2	20150815	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 718570 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20150401
EP2537436 A2	20150917	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 13
EP2537436 A2	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT

EP2537436 A2	20151030	LSLE	-PG25	EPO LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	LAPSED DATE : 20150803 COUNTRY OF REF DOCUMENT : ES NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150401
EP2537436 A2	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150401
EP2537436 A2	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150401
EP2537436 A2	20151130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150401
EP2537436 A2	20151130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150702
EP2537436 A2	20151231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20150923 YEAR OF FEE PAYMENT : 13
EP2537436 A2	20160105	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 60347474 COUNTRY OF REF DOCUMENT : DE
EP2537436 A2	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150401
EP2537436 A2	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150401
EP2537436 A2	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20150929 YEAR OF FEE PAYMENT : 13
EP2537436 A2	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150401
EP2537436 A2	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

				EPO	LAPSED DATE : 20150401
EP2537436 A2	20160309	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20160105
EP2537436 A2	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20150401
EP2537436 A2	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20150904
EP2537436 A2	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20150401
EP2537436 A2	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20150401
EP2537436 A2	20160926	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 14
EP2537436 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 14
EP2537436 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 14
EP2537436 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 14
EP2537436 A2	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 14
EP2537436 A2	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 14
EP2537436 A2	20161230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20160819 YEAR OF FEE PAYMENT : 14
EP2537436 A2	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160928 YEAR OF FEE PAYMENT : 14
EP2537436 A2	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160923 YEAR OF FEE PAYMENT : 14
EP2537436 B1	20150401	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2614749 A2	20130717	LSPB	+	published / reissued	
EP2614749 A2	20130807	LSRE	RIC1	CLASSIFICATION	IPC : A45D 44/18

				(CORRECTION)	20060101ALI20130703BHEP
EP2614749 A2	20130807	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : A46B 9/04 20060101AFI20130703BHEP
EP2614749 A2	20130807	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : A46B 11/00 20060101ALI20130703BHEP
EP2614749 A2	20140319	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20140205
EP2614749 A2	20140423	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20140321
EP2614749 A2	20160309	LSDW	-18D	DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20151008
ES2398653 T3	20130320	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2402867 T3	20130509	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2496986 T3	20140922	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2524815 T3	20141212	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1075372 A1	20130510	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1075372 A3	20051216	LSPB	+	published / reissued	
HK1099908 A3	20070831	LSPB	+	published / reissued	
HK1119033 A1	20130726	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1119033 A3	20090227	LSPB	+	published / reissued	
HK1156196 A1	20150717	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1156196 A3	20120608	LSPB	+	published / reissued	
HK1156197 A1	20150213	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1156197 A3	20120608	LSPB	+	published / reissued	
IL40483 S1	20070322	LSGT	+	granted / extensions (spc, cpc, pte)	
IL40484 S1	20070322	LSGT	+	granted / extensions (spc, cpc, pte)	
IL40485 S1	20070322	LSGT	+	granted / extensions (spc, cpc, pte)	
IL40486 S1	20070322	LSGT	+	granted / extensions (spc, cpc, pte)	
IN01061DN2005 A	20090109	LSPB	+	published / reissued	
IN02850DN2010 A	20120120	LSPB	+	published / reissued	
IN04775DN2008 A	20080815	LSPB	+	published / reissued	
IN244830 B	20101224	LSGT	+	granted / extensions (spc, cpc, pte)	
IN269967 B	20151127	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101068332 B1	20110928	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101068332 B1	20080714	LSSES	A201	REQUEST FOR EXAMINATION	

KR101068332 B1	20100917	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101068332 B1	20110623	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101068332 B1	20110921	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101068332 B1	20140828	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20140828 YEAR OF FEE PAYMENT : 4
KR101068332 B1	20150907	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20150908 YEAR OF FEE PAYMENT : 5
KR101068332 B1	20160907	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160908 YEAR OF FEE PAYMENT : 6
KR101087381 B1	20111125	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101087381 B1	20080903	LSSES	A201	REQUEST FOR EXAMINATION	
KR101087381 B1	20101129	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101087381 B1	20110823	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101087381 B1	20111121	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101087381 B1	20141030	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20141030 YEAR OF FEE PAYMENT : 4
KR101087381 B1	20151104	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20151105 YEAR OF FEE PAYMENT : 5
KR101087381 B1	20161104	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20161107 YEAR OF FEE PAYMENT : 6
KR101160429 B1	20120702	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101160429 B1	20110114	LSSES	A201	REQUEST FOR EXAMINATION	
KR101160429 B1	20110413	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101160429 B1	20120323	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101160429 B1	20120620	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101160429 B1	20150604	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20150605 YEAR OF FEE PAYMENT : 4
KR101160429 B1	20160609	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160610 YEAR OF FEE PAYMENT : 5
KR101226323 B1	20130124	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101226323 B1	20100511	LSSES	A201	REQUEST FOR EXAMINATION	
KR101226323 B1	20121024	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101226323 B1	20130118	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101226323 B1	20160107	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160108 YEAR OF FEE PAYMENT : 4

KR101226323 B1	20170110	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20170111 YEAR OF FEE PAYMENT : 5
KR101279687 B1	20130628	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101279687 B1	20100715	LSES	A201	REQUEST FOR EXAMINATION	
KR101279687 B1	20120308	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101279687 B1	20121224	LSRV	-E90F	NOTIFICATION OF REASON FOR FINAL REFUSAL	
KR101279687 B1	20130422	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101279687 B1	20130621	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101279687 B1	20160610	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160613 YEAR OF FEE PAYMENT : 4
KR20050043930 A	20050511	LSPB	+	published / reissued	
KR20070026574 A	20070308	LSPB	+	published / reissued	
KR20080078718 A	20080827	LSPB	+	published / reissued	
KR20100098442 A	20100906	LSPB	+	published / reissued	
KR20110015471 A	20110215	LSPB	+	published / reissued	
MX2010004569 A1	20100518	LSPB	+	published / reissued	
MX2010004569 A1	20130121	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05002498 A1	20050527	LSPB	+	published / reissued	
MXPA05002498 A1	20080215	LSGT	+FG	GRANT OR REGISTRATION	
MXPA06013161 A1	20070213	LSPB	+	published / reissued	
MXPA06013161 A1	20091105	LSGT	+FG	GRANT OR REGISTRATION	
MY142235 A	20101115	LSGT	+	granted / extensions (spc, cpc, pte)	
MY156423 A	20160226	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2005109557 A	20050920	LSPB	+	published / reissued	
RU2006143668 A	20080620	LSPB	+	published / reissued	
RU2008129753 A	20100127	LSPB	+	published / reissued	
RU2009130255 A	20110220	LSPB	+	published / reissued	
RU2325830 C2	20080610	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2374968 C2	20091210	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2384284 C1	20100320	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2426490 C1	20110820	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2506027 C2	20140210	LSGT	+	granted / extensions (spc, cpc, pte)	
TH102050 A	20100625	LSPB	+	published /	

TH34650 B	20121224	LSGT	+	reissued granted / extensions (spc, cpc, pte)	
TH46230 B	20151007	LSGT	+	granted / extensions (spc, cpc, pte)	
TH53175 B	20170105	LSGT	+	granted / extensions (spc, cpc, pte)	
TH65608 A	20041216	LSPB	+	published / reissued	
TH73774 A	20051220	LSPB	+	published / reissued	
TH89203 A	20080331	LSPB	+	published / reissued	
TR201615527 T4	20161121	LSGT	+	granted / extensions (spc, cpc, pte)	
TW200412877 A	20040801	LSPB	+	published / reissued	
TW200605814 A	20060216	LSPB	+	published / reissued	
TW200738189 A	20071016	LSPB	+	published / reissued	
TW200938119 A	20090916	LSPB	+	published / reissued	
TWD111314 S1	20070221	LSGT	+	granted / extensions (spc, cpc, pte)	
TWD112703 S1	20060901	LSGT	+	granted / extensions (spc, cpc, pte)	
TWD112704 S1	20060901	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI265795 B	20061111	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI368491 B	20120721	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI388296 B	20130311	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI419660 B	20131221	LSGT	+	granted / extensions (spc, cpc, pte)	
US2004237226 AA	20041202	LSPB	+	published / reissued	
US2005147458 AA	20050707	LSPB	+	published / reissued	
US2006165473 AA	20060727	LSPB	+	published / reissued	
US2008104786 AA	20080508	LSPB	+	published / reissued	
US2008120798 AA	20080529	LSPB	+	published / reissued	
US2008120798 AA	20080124	LSAS	AS	ASSIGNMENT	OWNER NAME : COLGATE- PALMOLIVE, NEW YORK DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SORRENTINO, ALAN; HOHLBEIN, DOUGLAS J.; SPROSTA, AL; REEL/FRAME:020405/0806; SIGNING DATES FROM 20070911 TO 20070914
US2009178219 AA	20090716	LSPB	+	published / reissued	
US2013247315 AA	20130926	LSPB	+	published / reissued	
US2014310898 AA	20141023	LSPB	+	published / reissued	
US2016128459 AA	20160512	LSPB	+	published / reissued	
US7182542 BB	20070227	LSGT	+	granted / extensions (spc, cpc, pte)	

US7182542 BB	20100702	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7182542 BB	20140725	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7331731 BB	20080219	LSGT	+	granted / extensions (spc, cpc, pte)	
US7331731 BB	20040511	LSAS	AS	ASSIGNMENT	OWNER NAME : COLGATE- PALMOLIVE COMPANY, NEW YORK DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HOHLBEIN, DOUGLAS J.; KEMP, JAMES; SORRENTINO, ALAN V.; ANDOTHERS; REEL/FRAME:015331/0614; SIGNING DATES FROM 20040503 TO 20040507
US7331731 BB	20110721	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7331731 BB	20150819	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7478959 BB	20090120	LSGT	+	granted / extensions (spc, cpc, pte)	
US7478959 BB	20060321	LSAS	AS	ASSIGNMENT	OWNER NAME : COLGATE- PALMOLIVE COMPANY, NEW YORK DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HOLBEIN, DOUGLAS J.; REEL/FRAME:017358/0561 EFFECTIVE DATE : 20060301
US7478959 BB	20120625	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7478959 BB	20160720	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7722274 BB	20100525	LSGT	+	granted / extensions (spc, cpc, pte)	
US7722274 BB	20131011	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8240937 BB	20120814	LSGT	+	granted / extensions (spc, cpc, pte)	
US8240937 BB	20080124	LSAS	AS	ASSIGNMENT	OWNER NAME : COLGATE- PALMOLIVE, NEW YORK DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SORRENTINO, ALAN; HOHLBEIN, DOUGLAS J.; SPROSTA, AL; REEL/FRAME:020405/0806; SIGNING DATES FROM 20070911 TO 20070914
US8240937 BB	20080124	LSAS	AS	ASSIGNMENT	OWNER NAME : COLGATE- PALMOLIVE, NEW YORK DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SORRENTINO, ALAN; HOHLBEIN, DOUGLAS J.; SPROSTA, AL; SIGNING DATES FROM 20070911 TO 20070914; REEL/FRAME:020405/0806
US8240937 BB	20160215	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8449211 BB	20130528	LSGT	+	granted / extensions (spc, cpc, pte)	
US8449211 BB	20161128	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8764332 BB	20140701	LSGT	+	granted / extensions (spc, cpc, pte)	
US8764332 BB	20140611	LSGT	PAT1	Patented Case	
US9265337 BB	20160223	LSGT	+	granted / extensions (spc, cpc, pte)	
US9265337 BB	20151019	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
USD527528 S1	20060905	LSGT	+	granted /	

USD528803 S1	20060926	LSGT	+	extensions (spc, cpc, pte) granted / extensions (spc, cpc, pte)	
USD532202 S1	20061121	LSGT	+	granted / extensions (spc, cpc, pte)	
USD532607 S1	20061128	LSGT	+	granted / extensions (spc, cpc, pte)	
USD557504 S1	20071218	LSGT	+	granted / extensions (spc, cpc, pte)	
USD557505 S1	20071218	LSGT	+	granted / extensions (spc, cpc, pte)	
VN12945 A1	20140825	LSPB	+	published / reissued	
VN12946 A1	20140825	LSPB	+	published / reissued	
VN15934 A1	20161025	LSPB	+	published / reissued	
VN7231 A1	20081027	LSPB	+	published / reissued	
VN8263 A1	20100325	LSPB	+	published / reissued	
WO04021914 A2	20040318	LSPB	+	published / reissued	
WO04021914 A3	20040511	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10843135 COUNTRY OF REF DOCUMENT : US
WO04021914 A3	20041007	LSRE	+B	LATER PUBLICATION OF AMENDED CLAIMS	EFFECTIVE DATE : 20040629
WO04021914 A3	20050303	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2497712 COUNTRY OF REF DOCUMENT : CA
WO04021914 A3	20050304	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2005/002498 COUNTRY OF REF DOCUMENT : MX
WO04021914 A3	20050304	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11072931 COUNTRY OF REF DOCUMENT : US
WO04021914 A3	20050304	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020057003809 COUNTRY OF REF DOCUMENT : KR
WO04021914 A3	20050401	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003263056 COUNTRY OF REF DOCUMENT : AU
WO04021914 A3	20050405	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2005109557 COUNTRY OF REF DOCUMENT : RU KIND CODE OF REF DOCUMENT : A
WO04021914 A3	20050405	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003794567 COUNTRY OF REF DOCUMENT : EP
WO04021914 A3	20050429	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 20038248409 COUNTRY OF REF DOCUMENT : CN
WO04021914 A3	20050511	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020057003809 COUNTRY OF REF DOCUMENT : KR
WO04021914 A3	20050629	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN	REF DOCUMENT NUMBER : 2003794567 COUNTRY OF REF DOCUMENT : EP

WO04021914 A3	20050703	LSNP	+WWE	NATIONAL OFFICE WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1-2005-500471 COUNTRY OF REF DOCUMENT : PH
WO04021914 A3	20060807	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO04021914 A3	20060807	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : JP
WO05110149 A2	20051124	LSPB	+	published / reissued	
WO05110149 A3	20061110	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12006502237 COUNTRY OF REF DOCUMENT : PH
WO05110149 A3	20061110	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2566410 COUNTRY OF REF DOCUMENT : CA
WO05110149 A3	20061113	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005244084 COUNTRY OF REF DOCUMENT : AU
WO05110149 A3	20061113	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2006/013161 COUNTRY OF REF DOCUMENT : MX
WO05110149 A3	20061114	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05110149 A3	20061114	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE
WO05110149 A3	20061207	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2005244084 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20050511 KIND CODE OF REF DOCUMENT : A
WO05110149 A3	20061207	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005244084 COUNTRY OF REF DOCUMENT : AU
WO05110149 A3	20061208	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005747726 COUNTRY OF REF DOCUMENT : EP
WO05110149 A3	20061211	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006143668 COUNTRY OF REF DOCUMENT : RU
WO05110149 A3	20061211	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020067026051 COUNTRY OF REF DOCUMENT : KR
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WO07076405 A1	20080526	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006330556 COUNTRY OF REF DOCUMENT : AU
WO07076405 A1	20080528	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2631325 COUNTRY OF REF DOCUMENT : CA
WO07076405 A1	20080602	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12008501306 COUNTRY OF REF DOCUMENT : PH
WO07076405 A1	20080610	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2008/007465 COUNTRY OF REF DOCUMENT : MX
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WO09094231 A1	20090730	LSPB	+	published / reissued	
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WO09094231 A1	20100727	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO09094231 A1	20100824	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010135335 COUNTRY OF REF DOCUMENT : RU
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IN:

COUNTRY OF REF DOCUMENT : BR
KIND CODE OF REF DOCUMENT : A2
DESIGNATED STATE(S) :
EFFECTIVE DATE : 20100721

Title: BRUSH, IN PARTICULAR TOOTHBRUSH, AND ASSOCIATED PRODUCTION METHOD

Abstract: Source: US2008014010A The invention relates to a brush, in particular a toothbrush, comprising a head part with a cleaning structure that comprises bristles, a hand part and a neck part, a cavity comprising at least one outlet opening for an active substance being located in the head or neck part. In one embodiment, the cavity incorporates an active substance element, which contains the active substance in a carrier material and releases said substance in a controlled manner when it comes into contact with water. In another embodiment, the cavity is adapted to the shape of an active substance element by means of defined external contours. The volume of the cavity is preferably 1-2 times and no more than 4 times greater than the volume of the active substance element, ensuring that the latter is preferably surrounded by water during use. This allows the active substance to be effectively metered and ensures that the brush is easy to use.

Classifications:

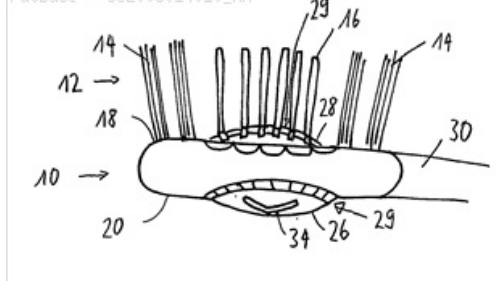
International (IPC 8-9): A46B11/00 A46B11/04 A46B15/00
A46B3/00 A46D3/00 A46D99/00 B43K5/02 (Advanced/Invention);
A46B11/00 B43K5/00 (Core/Invention)

CPC: A46D3/00 A46B11/0041 A46B15/0091 A46B2200/1066
A46B11/0062 A46B11/001 A46B2200/1026 A46B11/0068
A46B11/0003

European: A46B11/00A A46B11/00C6C A46B15/00G K46B200/10G

US: 15/167.1 300/21 300/21S 401/132 401/132P 401/146 401/146P
401/270 401/282 401/282S

PatBase - US2008014010_AA



Family:

Publication number	Publication date	Application number	Application date
AT534314 E	20111215	AT20040022614T	20040922
DE502004013082 D1	20120202	DE200450013082T	20040922
DE502005014048 D1	20131212	DE200550014048T	20050907
DE502005015038 D1	20160128	DE200550015038T	20050907
EP1639913 A1	20060329	EP20040022614	20040922
EP1639913 B1	20111123	EP20040022614	20040922
EP1796507 A1	20070620	EP20050785195	20050907
EP1796507 B1	20131023	EP20050785195	20050907
EP3000351 A1	20160330	EP20150187837	20050907
US2008014010 AA	20080117	US20050662486	20050907
US2012121312 AA	20120517	US20110341212	20111230
US2013212823 AA	20130822	US20130779032	20130227
US2014348569 AA	20141127	US20140458710	20140813
US2017079420 AA	20170323	US20160371578	20161207
US8109686 BB	20120207	US20050662486	20050907
US8408833 BB	20130402	US20110341212	20111230
US8851781 BB	20141007	US20130779032	20130227
US9538837 BB	20170110	US20140458710	20140813
WO06032367 A1	20060330	WO2005EP09615	20050907

Priority:

EP20040022614 20040922	EP20050785195 20050907	EP20100011705 20050907
EP20150187837 20050907	US20050662486 20050907	WO2005EP09615 20050907
US20070662486 20070411	US20110341212 20111230	US20130779032 20130227
US20140458710 20140813	US20160371578 20161207	

Probable Assignee: TRISA HOLDING AG

Assignee(s): (std): BAERTSCHI ARMIN ; BARTSCHI ARMIN ; GROSS PETER ; TRISA HOLDING AG

Inventor(s): (std): BAERTSCHI ARMIN ; BARTSCHI ARMIN ; GROSS PETER

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; SCHAAD BALASS MENZL AND PARTNER AG; STEINEGGER PETER; OLIFF AND BERRIDGE PLC; OLIFF PLC

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 GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AT534314 E	20111215	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1639913 A1	20060329	LSPB	+	published / reissued	
EP1639913 A1	20061011	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20060830
EP1639913 A1	20061206	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY

COUNTRY OF REF DOCUMENT : CZ
 COUNTRY OF REF DOCUMENT : DE
 COUNTRY OF REF DOCUMENT : DK
 COUNTRY OF REF DOCUMENT : EE
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EP1639913 A1	20111130	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1639913 A1	20111221	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D TEXT : LANGUAGE OF EP DOCUMENT: GERMAN
EP1639913 A1	20120202	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502004013082 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120202
EP1639913 A1	20120307	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20111123
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EP1639913 B1	20111123	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1796507 A1	20100602	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100429
EP1796507 A1	20130626	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20130531
EP1796507 A1	20130626	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : GROSS, PETER
EP1796507 A1	20130626	LSRE	RIN1	INVENTOR (CORRECTION)	PARTYTYPE : INVENTOR INVENTOR : BAERTSCHI, ARMIN
EP1796507 A1	20131023	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D TEXT : NOT ENGLISH
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EP1796507 A1	20140530	LSLE	-PG25		LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20131023
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EP1796507 A1	20140530	LSLE	-PG25		LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20131023
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EP1796507 A1	20140829	LSLE	-PG25		LAPSED IN A CONTRACTING STATE	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOF LAPSE : LAPSE 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 LAPSED DATE : 20131023
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EP1796507 A1	20141106	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502005014048 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140724
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				ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	DUE FEES LAPSED DATE : 20140930
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EP1796507 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20131023
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EP1796507 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160921 YEAR OF FEE PAYMENT : 12
EP1796507 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160920

EP1796507 A1	20161130	LSFE	+PGFP	TO NATIONAL OFFICE	YEAR OF FEE PAYMENT : 12
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EP1796507 B1	20131023	LSGT	+	granted / extensions (spc, cpc, pte)	
EP3000351 A1	20160330	LSPB	+	published / reissued	
EP3000351 A1	20161026	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20160916
US2008014010 AA	20080117	LSPB	+	published / reissued	
US2008014010 AA	20070411	LSAS	AS	ASSIGNMENT	OWNER NAME : TRISA HOLDING AG, SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: BARTSCHI, ARMIN; GROSS, PETER; REEL/FRA:019157/0033 EFFECTIVE DATE : 20070403
US2012121312 AA	20120517	LSPB	+	published / reissued	
US2013212823 AA	20130822	LSPB	+	published / reissued	
US2014348569 AA	20141127	LSPB	+	published / reissued	
US2017079420 AA	20170323	LSPB	+	published / reissued	
US8109686 BB	20120207	LSGT	+	granted / extensions (spc, cpc, pte)	
US8109686 BB	20070411	LSAS	AS	ASSIGNMENT	OWNER NAME : TRISA HOLDING AG, SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: BARTSCHI, ARMIN; GROSS, PETER; REEL/FRA:019157/0033 EFFECTIVE DATE : 20070403
US8109686 BB	20150728	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8408833 BB	20130402	LSGT	+	granted / extensions (spc, cpc, pte)	
US8408833 BB	20130313	LSGT	PAT1	Patented Case	
US8408833 BB	20160920	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8851781 BB	20141007	LSGT	+	granted / extensions (spc, cpc, pte)	
US8851781 BB	20140917	LSGT	PAT1	Patented Case	
US9538837 BB	20170110	LSGT	+	granted / extensions (spc, cpc, pte)	
US9538837 BB	20161221	LSGT	PAT1	Patented Case	
WO06032367 A1	20060330	LSPB	+	published / reissued	
WO06032367 A1	20070309	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005785195 COUNTRY OF REF DOCUMENT : EP
WO06032367 A1	20070323	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06032367 A1	20070411	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11662486 COUNTRY OF REF DOCUMENT : US
WO06032367 A1	20070620	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL	REF DOCUMENT NUMBER : 2005785195 COUNTRY OF REF DOCUMENT : EP

WO06032367 A1	20080117	LSPB	+WWP	OFFICE WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 11662486 COUNTRY OF REF DOCUMENT : US
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Title: POWER OPERABLE DISPENSING TOOTHBRUSH

Abstract: Source: US7070354B A hand-operable toothbrush for selectively dispensing dentifrice that includes a proximal section defining a reservoir and a distal section defining a bristle section including a mechanism for engaging the proximal section. The bristle section includes a head portion including a plurality of spaced bristles and a power mechanism for vibrating same. The toothbrush also includes a dispensing mechanism for manually adjusting a volume of the reservoir and thereby causing dentifrice to dissipate outwardly from the reservoir and head portion as needed. The dispensing mechanism includes a gasket engaged with the distal section and a snap ring positioned within the reservoir. The dispensing mechanism and the power mechanism are independently operable.

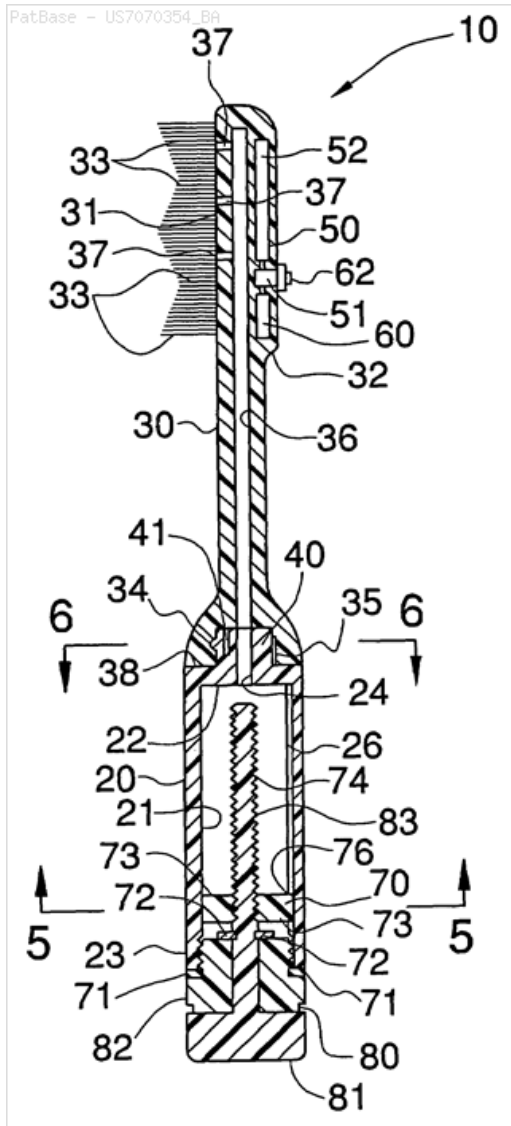
Classifications:

International (IPC 8-9): A46B11/04 (Advanced/Invention)

CPC: A46B11/0027 A46B2200/1066

European: A46B11/00C6B2 K46B200/10G

US: 401/171 401/172 401/174 401/175 401/268 401/270 401/277

**Family:**

Publication number	Publication date	Application number	Application date
US7070354 BA	20060704	US20040985813	20041110

Priority:

US20040985813 20041110

Probable Assignee:

GUTIERREZ CARO GUSTAVO

Assignee(s): (std):

GUTIERREZ CARO GUSTAVO

Inventor(s): (std):

GUTIERREZ CARO GUSTAVO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US7070354 BA	20060704	LSGT	+	granted / extensions (spc, cpc, pte)	
US7070354 BA	20100704	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7070354 BA	20100824	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20100704

Title: DISPOSABLE TOOTHBRUSH

Abstract: Source: US2009049632A A disposable toothbrush includes a handle member produced from a pre-selected biodegradable material. The handle member has a predetermined size and a predetermined shape. There are a predetermined number of rows of bristles attached to and extending above a top surface of the handle member closely adjacent one end thereof. Such bristles have a predetermined length. A pouch containing toothpaste is disposed beneath the rows of bristles such that the toothpaste will be in fluid communication with the bristles when the pouch is punctured and compressed.

Classifications:

International (IPC 8-9): A46B11/02 A46B11/04 A46B9/04

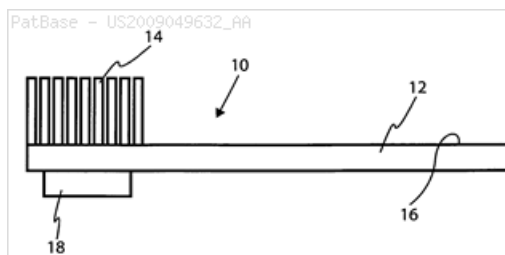
B43K5/14 (Advanced/Invention);

A46B11/00 A46B9/00 (Core/Invention)

CPC: A46B11/0003 A46B11/0041 A46B2200/01 A46B2200/1066

European: A46B11/00A A46B11/00C6C K46B200/01 K46B200/10G

US: 15/167.1 15/167.100P 401/132 401/132S 401/291



Family:

Publication number	Publication date	Application number	Application date
US2009049632 AA	20090226	US20080228986	20080819
US2010043164 AA	20100225	US20090484433	20090615
US8210764 BB	20120703	US20090484433	20090615

Priority:

US20070957365P 20070822 US20080228986 20080819 US20090484433 20090615

Probable Assignee: HOLOWECKY BOHDAN

Assignee(s): (std): HOLOWECKY BOHDAN

Inventor(s): (std): HOLOWECKY BOHDAN

Agent(s): JAMES RAY AND ASSOCIATES; JAMES RAY AND ASSOC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2009049632 AA	20090226	LSPB	+	published / reissued	
US2010043164 AA	20100225	LSPB	+	published / reissued	
US8210764 BB	20120703	LSGT	+	granted / extensions (spc, cpc, pte)	
US8210764 BB	20160703	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US8210764 BB	20160823	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160703

Agent(s): FB RICE; GRIFFITH HACK; SMART AND BIGGAR; JUAN PABLO CADENA SARMIENTO; JENKINS PETER DAVID; COLGATE-PALMOLIVE COMPANY; COLGATE PALMOLIVE CO; AMY M; RYAN M; THIBAUT; WALLACE MICHAEL

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2008308854 AA	20090409	LSPB	+	published / reissued	
AU2008308854 AA	20120216	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2008308854 BB	20111020	LSGT	+	granted / extensions (spc, cpc, pte)	
BRPI0817917 A2	20150407	LSPB	+	published / reissued	
CA2700853 AA	20090409	LSPB	+	published / reissued	
CA2700853 AA	20100324	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2700853 AA	20100324	LSES	+EEER	EXAMINATION REQUEST	
CA2700853 C	20141202	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2835471 AA	20090409	LSPB	+	published / reissued	
CA2835471 AA	20140121	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20131129
CA2835471 AA	20161114	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20161003
CN101883506 A	20101110	LSPB	+	published / reissued	
CN101883506 A	20101110	LSPB	+C06	PUBLICATION	
CN101883506 A	20120808	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101883506 B	20120808	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102772004 A	20121114	LSPB	+	published / reissued	
CN102772004 A	20121114	LSPB	+C06	PUBLICATION	
CN102772004 A	20150429	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN102772004 B	20150429	LSGT	+	granted / extensions (spc, cpc, pte)	
CO6270192 A2	20110420	LSPB	+	published / reissued	
CO6270192 A2	20121220	LSGT	+FG	APPLICATION GRANTED	
EP2197317 A1	20100623	LSPB	+	published / reissued	
EP2197317 A1	20100623	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100325
EP2197317 A1	20140507	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20140404
EP2197317 A1	20170413	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : WD REF DOCUMENT NUMBER : 1143720 COUNTRY OF REF DOCUMENT : HK
IN02171DN2010 A	20110204	LSPB	+	published /	

KR101355292 B1	20140204	LSGT	+	reissued granted / extensions (spc, cpc, pte)	
KR101355292 B1	20121009	LSES	A201	REQUEST FOR EXAMINATION	
KR101355292 B1	20130108	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101355292 B1	20131024	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101355292 B1	20140117	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101355292 B1	20170110	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20170111 YEAR OF FEE PAYMENT : 4
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KR20100080835 A	20100503	LSES	A201	REQUEST FOR EXAMINATION	
KR20100080835 A	20120413	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20100080835 A	20130201	LSRV	-E90F	NOTIFICATION OF REASON FOR FINAL REFUSAL	
KR20100080835 A	20131224	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR20100080835 A	20140324	LSRE	AMND	AMENDMENT	
KR20120117951 A	20121024	LSPB	+	published / reissued	
KR20140066199 A	20140530	LSPB	+	published / reissued	
KR20140066199 A	20140324	LSES	A201	REQUEST FOR EXAMINATION	
KR20140066199 A	20141224	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20140066199 A	20150619	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
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MX2010003285 A1	20130114	LSGT	+FG	GRANT OR REGISTRATION	
MX336026 B	20160106	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2010117395 A	20111110	LSPB	+	published / reissued	
RU2449718 C2	20120510	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2478329 C1	20130410	LSGT	+	granted / extensions (spc, cpc, pte)	
TW200934414 A	20090816	LSPB	+	published / reissued	
TWI377924 B	20121201	LSGT	+	granted / extensions (spc, cpc, pte)	
US2009091178 AA	20090409	LSPB	+	published / reissued	
US2009091178 AA	20080103	LSAS	AS	ASSIGNMENT	OWNER NAME : COLGATE-PALMOLIVE COMPANY, NEW YORK DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WAGUESPACK, KENNETH; MOSKOVICH, ROBERT; RUSSELL, BRUCE; REEL/FRAME:020310/0553; SIGNING DATES FROM 20070926 TO 20080102

US2012233796 AA	20120920	LSPB	+	published / reissued	
US2014000048 AA	20140102	LSPB	+	published / reissued	
US2014175854 AA	20140626	LSPB	+	published / reissued	
US8156599 BB	20120417	LSGT	+	granted / extensions (spc, cpc, pte)	
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US8156599 BB	20080103	LSAS	AS	ASSIGNMENT	OWNER NAME : COLGATE-PALMOLIVE COMPANY, NEW YORK DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WAGUESPACK, KENNETH; MOSKOVICH, ROBERT; RUSSELL, BRUCE; SIGNING DATES FROM 20070926 TO 20080102; REEL/FRAME:020310/0553
US8156599 BB	20151019	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8533889 BB	20130917	LSGT	+	granted / extensions (spc, cpc, pte)	
US8533889 BB	20170317	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8695146 BB	20140415	LSGT	+	granted / extensions (spc, cpc, pte)	
US8695146 BB	20140326	LSGT	PAT1	Patented Case	
US8864241 BB	20141021	LSGT	+	granted / extensions (spc, cpc, pte)	
US8864241 BB	20141001	LSGT	PAT1	Patented Case	
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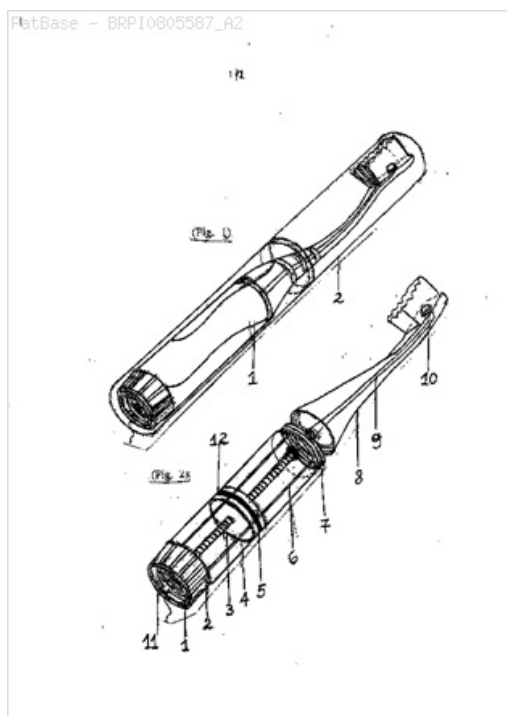
Title: escova de dentes com creme dental e fio dental embutidos no seu corpo tooth brush with dental cream and dental wire inlaid in its body (Machine translation)

Abstract: Source: BRPI0805587A A ideia de invenção desta escova dental, surgiu por diversos fatores que motivou a sua criação, vejamos alguns; o creme dental no banheiro passa pela mão de diversos indivíduos durante seu uso, algumas pessoas após suas necessidades fisiológicas, acabam esquecendo de lavar as mãos, o que leva ao tubo de creme dental e até na escova a propagação de diversos micro-organismos e bactérias causadoras de doenças nas gengivas, herpes dentre outras tantas que se transmitem nestas condições, através desta criação a escova passa ser mais higiénica onde cada indivíduo pode ter a sua e sem se preocupar em dividir o mesmo tubo de creme dental com outras pessoas o que também é o caso do fio dental, a escova conta com novações funcionais e uma embalagem protetora, de forma prática para seu transporte em viagens, bolsas e sendo usada em ocasiões inusitadas como em festas, local de trabalho e nas escolas de forma simples de fácil manuseio sem precisar carregar várias embalagens e utensílios para uma mesma função, escovar os dentes.

Machine translation: The idea of invention of this dental brush, appeared for diverse factors that its creation motivated, sees some; the dental cream in the bathroom passes for the hand of diverse individuals during its use, some people after its physiological necessities, finishes forgetting to wash the hands, what it leads to the pipe of dental cream and ties in the brush the propagation of diverse microorganisms and causing bacteria of illnesses in the gingivas, herpes amongst others as much that if they transmit in these conditions, through this creation the brush passes to be more hygienical where each individual can have its and without if worrying in the same dividing pipe of dental cream with other people what also and the case of the dental wire, the brush counts on novations functionaries and a packing protector, of form it practises for its transport in trips, stock markets and being used in unusual occasions as in parties, workstation and school of simple manuscript form easy without needing to load you vary packings and utensils for one same function, to brush teeth.

Classifications:

International (IPC 8-9): A46B9/04 (Advanced/Invention);
A46B9/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
BRPI0805587 A2	20100824	BR2008PI05587	20081202

Priority:

BR2008PI05587 20081202

Probable Assignee:

KRAMBECK RODOLIR

Assignee(s): (std):

KRAMBECK RODOLIR

Assignee(s):

RODOLIR KRAMBECK

Inventor(s): (std):

KRAMBECK RODOLIR

Inventor(s):

RODOLIR KRAMBECK

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI0805587 A2	20100824	LSPB	+	published / reissued	
BRPI0805587 A2	20100824	LSPB	B03A	PUBLICATION OF AN APPLICATION: PUBLICATION OF A PATENT APPLICATION OR OF A CERTIFICATE OF ADDITION OF INVENTION	
BRPI0805587 A2	20120612	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	DESCRIPTION : REFERENTE A 3A ANUIDADE.

BRPI0805587 A2	20121113	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	DESCRIPTION : NAO APRESENTADA A GUIA DE CUMPRIMENTO DE EXIGENCIA. REFERENTE A 3A ANUIDADE.
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Title: ORAL CARE IMPLEMENT WITH FLUID APPLICATOR AND METHOD OF ASSEMBLING THE SAME

Abstract: Source: US2013309629A An oral care implement, e.g., toothbrush, having a wick applicator and a method of assembling the same is disclosed. The implement includes a head, a handle connected to the head by a neck portion, and a recess. The recess is arranged for receipt of the wick applicator. The handle includes an internal fluid reservoir holding a fluid in communication with the recess. The wick applicator is arranged to enable a fluid to pass therethrough by capillary action and has a first end portion and a second end portion. The second portion of the wick applicator comprises at least one projection for engaging at least one cooperating portion of the recess to secure the wick applicator in the recess at an operative position, whereupon the wick applicator is in fluid communication with the fluid in the reservoir.

Classifications:

International (IPC 8-9): A45D34/04 A46B11/00 A46B15/00 A46B9/04 A61C1/12 A61C17/22 A61C17/34

B23P11/02 (Advanced/Invention);

A61C17/22 (Core/Invention)

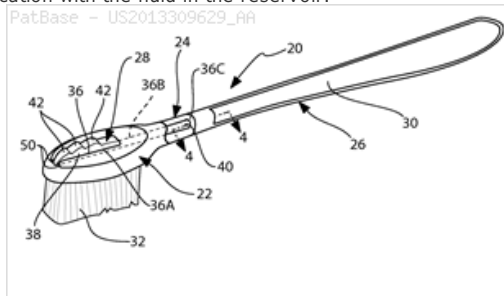
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A46B2200/1066

European: A46B11/00C A61C17/22H2 K61C19/06B

US: 433/82



Family:

Publication number	Publication date	Application number	Application date
AU2011357730 AA	20120809	AU20110357730	20110201
AU2011357730 BB	20141211	AU20110357730	20110201
BR112013019656 A2	20161011	BR20131119656	20110201
CA2824581 AA	20130711	CA20112824581	20110201
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CN103327932 A	20130925	CN201180066590	20110201
CN103327932 B	20151125	CN201180066590	20110201
CO6741205 A2	20130830	CO20130176205	20130725
EP2670343 A1	20131211	EP20110703982	20110201
IN06443DN2013 A	20141212	IN2013DN06443	20130718
KR20130126696 A	20131120	KR20137023079	20110201
MX2013008762 A1	20131017	MX20130008762	20110201
MX338289 B	20160408	MX20130008762	20110201
RU2013140453 A	20150310	RU20130140453	20110201
RU2544154 C1	20150310	RU20130140453	20110201
TH131649 A	20140317	TH20131004237	20110201
TW201244665 A	20121116	TW20120102971	20120131
US2013309629 AA	20131121	US20110983285	20110201
US9603442 BB	20170328	US20110983285	20110201
WO12105961 A1	20120809	WO2011US23346	20110201

Priority:

CO20130176205 20130725 US20110983285 20110201 WO2011US23346 20110201

Probable Assignee: COLGATE PALMOLIVE CO

Assignee(s): (std): COLGATE PALMOLIVE ; COLGATE PALMOLIVE CO ; JIMENEZ EDUARDO ; KENNEDY SHARON ; JIMENEZ EDUARDO J

Assignee(s): KOLGEJT PALMOLIV KOMPANI ; COLGATE PALMOLIVE CO300 PARK AVENUENEW YORKNY10022US ; COLGATE PALMOLIVE COMPANY

Inventor(s): (std): JIMENEZ EDUARDO ; JIMENEZ EDUARDO J ; KENNEDY SHARON ; KHIMENES EHDUARDO ; KENNEDI SHEHRON

Inventor(s): EDUARDO JIMENEZ ; KENNEDY SHARONUS ; SHARON KENNEDY ; JIMENEZ EDUARDOUS

Agent(s): FB RICE; GRIFFITH HACK; SMART AND BIGGAR; SILVANA MARIA LOPEZ DIAZ; JENKINS PETER DAVID; CHUNG JUDY W

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

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Patent	Date recorded	Event group	Code	Event	Details
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AU2011357730 AA	20150409	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2011357730 BB	20141211	LSGT	+	granted / extensions (spc, cpc, pte)	

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CA2824581 AA	20130711	LSPB	+	published / reissued	
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CN103327932 A	20130925	LSPB	+	published / reissued	
CN103327932 A	20130925	LSPB	+C06	PUBLICATION	
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EP2670343 A1	20131211	LSPB	+	published / reissued	
EP2670343 A1	20131211	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20130821
EP2670343 A1	20170301	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20170127
IN06443DN2013 A	20141212	LSPB	+	published / reissued	
KR20130126696 A	20131120	LSPB	+	published / reissued	
KR20130126696 A	20130902	LSES	A201	REQUEST FOR EXAMINATION	
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TH131649 A	20140317	LSPB	+	published / reissued	
TW201244665 A	20121116	LSPB	+	published / reissued	
US2013309629 AA	20131121	LSPB	+	published / reissued	
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US9603442 BB	20170328	LSGT	+	granted / extensions (spc, cpc, pte)	
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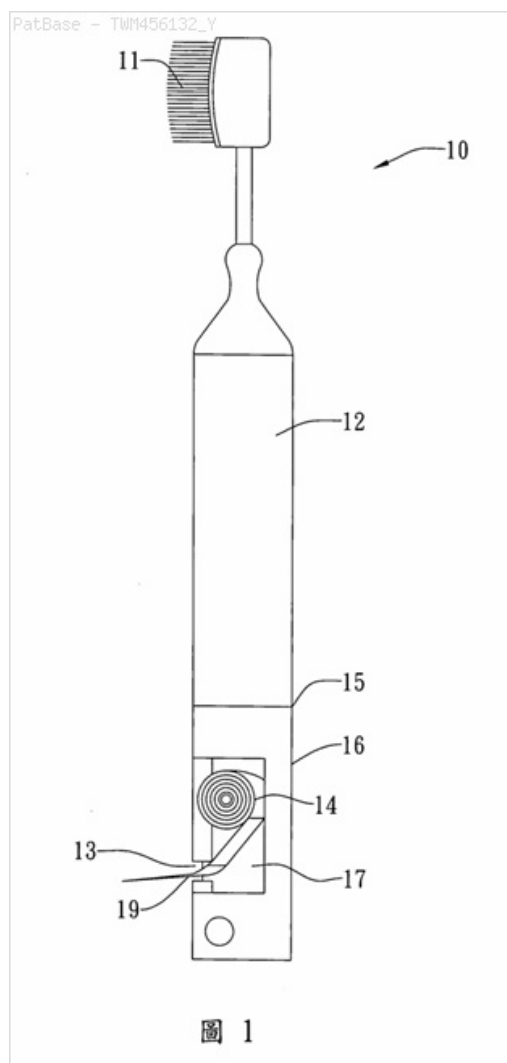
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WO12105961 A1	20130902	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2013140453 COUNTRY OF REF DOCUMENT : RU KIND CODE OF REF DOCUMENT : A
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Title: PORTABLE MULTIFUNCTIONAL ORAL CAVITY CLEANING SET

Abstract: Source: TWM456132Y The creation provides a versatile portable oral hygiene group, with its a kind of floss, toothpaste, mouthwash and oral freshener group of oral hygiene. The creation of the toothbrush handle protruding structure installed with a dental floss, hand one can pull out dental floss to clean between the teeth, the bottom container is divided into three equal portions, were put toothpaste, mouthwash and oral freshener, toothbrushes stored in three containers middle, so that we can pay attention to oral hygiene, space and both versatility.

Classifications:

International (IPC 8-9): A46B15/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
TWM456132 Y	20130701	TW20130201370U	20130122

Priority:

TW20130201370U 20130122

Probable Assignee: UNIV CHIEN HSIN SCI AND TECH

Assignee(s): (std): CHIEN HSIN UNIV OF SCIENCE AND TECHNOLOGY ; UNIV CHIEN HSIN SCI AND TECH

Inventor(s): (std): CHEN WEI KUI ; LIU REN SHUO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
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TWM456132 Y	20150401	LSLE	-MM4K	ANNULMENT OR LAPSE OF A UTILITY MODEL DUE TO NON-PAYMENT OF FEES	

Title: BRUSH AND TOSS

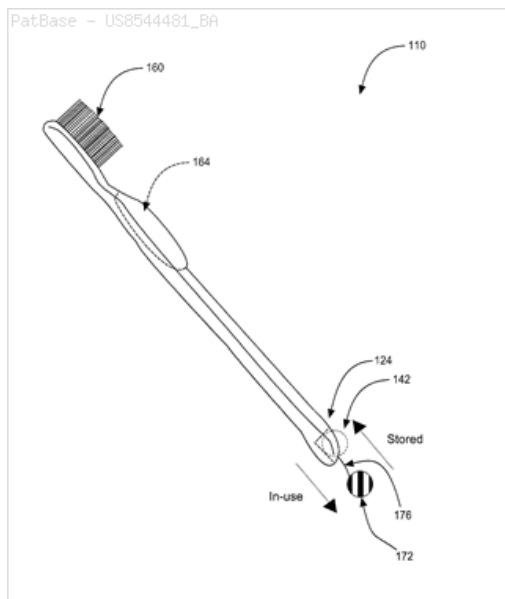
Abstract: Source: US8544481B A disposable tooth care system including: a toothbrush and floss assembly having a toothbrush having a proximate end and a distal end; a handle; a pouch located in the inner volume, the pouch is flexible and contains toothpaste; a floss spool comprising a wound-length of dental floss; and an axle. The handle includes; an outer surface; an inner volume; and a forked end; a neck; a head with at least one dispensing aperture; bristles; and a button. The toothbrush and floss assembly comprises the toothbrush; the pouch located in the inner volume of the handle of the toothbrush; the floss spool carried by the axle rotatable in the forked end, the axle fixed to the handle within the forked end, the forked end located at the proximate end of the toothbrush.

Classifications:

International (IPC 8-9): A45D44/18 A46B11/00 A46B11/04 A46B15/00 A47L13/22 B43K29/00 (Advanced/Invention)

CPC: A46B11/0041 A61C15/046 A46B15/0071

US: 132/309 132/311 401/195 401/270

**Family:**

Publication number	Publication date	Application number	Application date
US8544481 BA	20131001	US20120526339	20120618

Priority:

US20110507765P 20110714 US20120526339 20120618

Probable Assignee: SMITH DORSEY ALANNA

Assignee(s): (std): SMITH DORSEY ALANNA ; SMITH GLORIA

Inventor(s): (std): SMITH DORSEY ALANNA ; SMITH GLORIA

Agent(s): RACHEL; R G PATENT CONSULTING LLC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US8544481 BA	20131001	LSGT	+	granted / extensions (spc, cpc, pte)	
US8544481 BA	20130911	LSGT	PAT1	Patented Case	
US8544481 BA	20161003	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

Title: DISPOSABLE TOOTHBRUSH HAVING AN INTERNAL TOOTHPASTE CARTRIDGE

Abstract: Source: US2013266361A A disposable toothbrush having a handle connected to a extendable support arm that is connected to a brush head. The brush head has bristles attached thereto and a delivery port formed within the brush head between an underside of the brush head and a top of the brush head adjacent a cavity holding the toothpaste gel. This toothpaste gel sitting atop a concavity on top of the brush head. A thin deformable plastic cap is attached to the brush head such that it surrounds the toothpaste gel. Further, the handle is hollow and permits the insertion of the support arm therein.

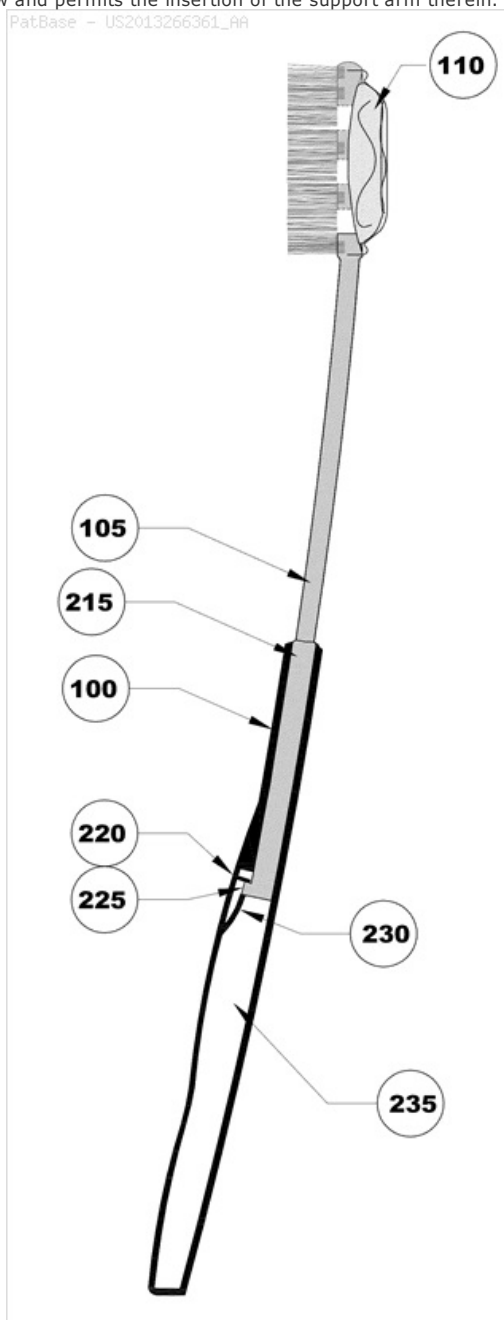
Classifications:

International (IPC 8-9): A46B11/02 A46B9/04 (Advanced/Invention)

CPC: A46B9/04 A46B5/005 A46B5/0075 A46B11/0041

US: 15/167.1 401/137

PatBase - US2013266361_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2013266361 AA	20131010	US20120585914	20120815

Priority:

US20120585914 20120815 US20120621864P 20120409

Probable Assignee: GILBERT JEFFREY A

Assignee(s): (std): GILBERT JEFFREY A

Inventor(s): (std): GILBERT JEFFREY A

Legal status (INPADOC)

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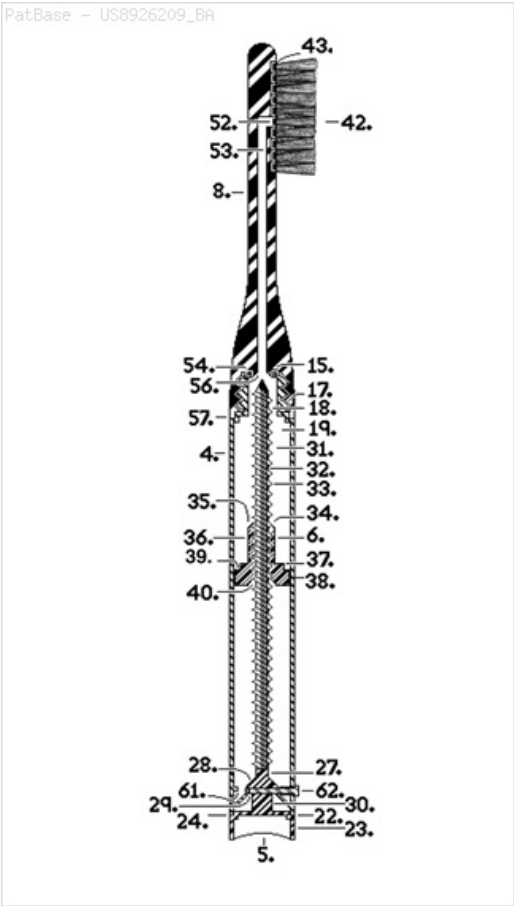
Patent	Date recorded	Event group	Code	Event	Details
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US2013266361 AA	20150207	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action
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Title: TOOTHBRUSH HAVING INTEGRAL DENTIFRICE DISPENSER

Abstract: Source: US8926209B A brush head and a cylinder filled with dentifrice, within the chamber. A dial is rotated, relative to the cylinder, a piston is enabled to push dentifrice through to the brush head channel. Dentifrice is then forced between a series of arranged bristles, seated in angular degree, around the exiting bore. These bristle expand toward a vertical position, acting as a guide to direct the moving dentifrice atop of the remaining brush head bristles. The cylinder can be refilled.

Classifications:
International (IPC 8-9): B43K5/06 (Advanced/Invention)
CPC: A46B11/0089 A46B2200/1066 A46B11/0024
US: 401/171 401/175



Family:

Publication number	Publication date	Application number	Application date
US8926209 BA	20150106	US20120385251	20120209

Priority:

US20120385251 20120209

Probable Assignee:	WILCOX ALLEN
Assignee(s): (std):	WILCOX ALLEN
Inventor(s): (std):	WILCOX ALLEN
Agent(s):	MICHAEL J

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
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US8926209 BA	20141217	LSGT	PAT1	Patented Case	

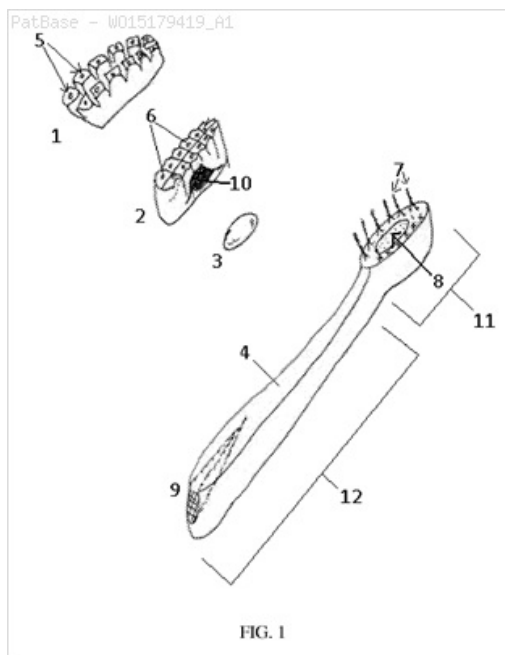
Title: DISPOSABLE TOOTH BRUSH

Abstract: A disposable toothbrush is provided having a handle portion, a head portion connected with the handle portion and provided with a plurality of elastomeric bristles on a front surface part of the head portion, a fabric medium attached to the front surface part of the head portion while exposing an upper end of the elastomeric bristles, and an encapsulated bead containing at least one kind of a rapidly releasable agent disposed in a cavity formed in the head portion behind the fabric medium.

Classifications:

International (IPC 8-9): A46B11/02 A46B17/04 A46B17/06 A46D1/00 (Advanced/Invention)

CPC: A46B11/0003 A46B5/005 A46B9/026 A46B17/04 A46D1/0207 A46B9/04 A46B2200/1066



Family:

Publication number	Publication date	Application number	Application date
WO15179419 A1	20151126	WO2015US31608	20150519

Priority:

US20140281814 20140519

Probable Assignee: HYUNYIL CHO

Assignee(s): (std): HYUNYIL CHO

Inventor(s): (std): HYUNYIL CHO

Agent(s): HAHN ROGER

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

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
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WO15179419 A1	20161121	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2017513595 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO15179419 A1	20161121	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

Title: DISPENSING TOOTHBRUSH

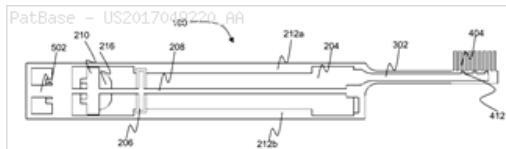
Abstract: Source: US2017049220A A dispensing toothbrush is capable of storage and dispensing toothpaste and dental floss. The toothbrush includes a handle having a chamber constructed to store toothpaste, a dial, and a floss dispenser having a floss spindle, floss aperture and floss cutter, a neck, and a head having bristles and head apertures. The dial is positioned in the handle between the floss dispenser and the neck and turning the dial causes the toothpaste to be extruded through the head apertures. The toothbrush provides a dispensing toothbrush having a solid core that prevents toothpaste from becoming trapped within and that enables dispensing of toothpaste without unintentional dispensing or retraction of dental floss. Toothbrush can be provided in compact size and is ideal for travel in that it consolidates multiple items such as a toothbrush, toothpaste and dental floss into a single compact device.

Classifications:

International (IPC 8-9): A46B11/00 A46B15/00 (Advanced/Invention)

CPC: A46B11/0027 A46B15/0071

US: 132/309



Family:

Publication number	Publication date	Application number	Application date
US2017049220 AA	20170223	US20150830468	20150819

Priority:

US20150830468 20150819

Probable Assignee: GLENWOOD RIDGE LLC

Assignee(s): (std): GLENWOOD RIDGE LLC

Inventor(s): (std): MCDANNELL DENNIS ; MCKENZIE DENISE

Legal status (INPADOC)

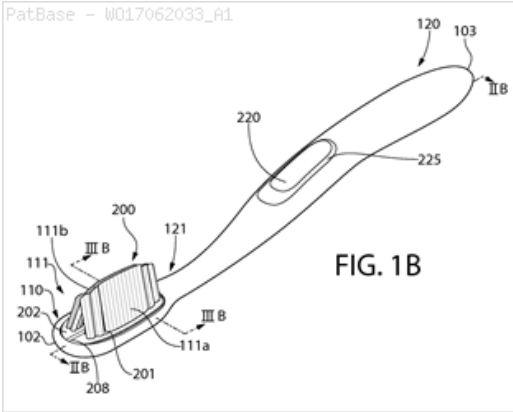
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Patent	Date recorded	Event group	Code	Event	Details
US2017049220 AA	20170223	LSPB	+	published / reissued	
US2017049220 AA	20170109	LSSES	NFA1	Non Final Action Mailed	
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Title: ORAL CARE IMPLEMENT

Abstract: An oral care implement in one embodiment includes an elongated body comprising a head portion supporting plurality of tooth cleaning elements and a handle portion. The tooth cleaning elements are disposed on longitudinally extending bristle carrier sections hingedly coupled together about a common pivot axis. The axis may be formed by a flexible web. A slidable actuator mounted in the handle portion is mechanically coupled to the bristle carrier assembly by an elongated operating rod. Moving the actuator in opposing rearward and forward directions opens or folds the bristles on the carriers outwards or inwards respectively about the common pivot axis. In the folded position, the bristles are configured for interdental cleaning of the teeth. In the open or extended position, the bristles are configured for general purpose cleaning of the teeth.

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Patent	Date recorded	Event group	Code	Event	Details
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