

Search query (2): [SP]: 1. an ophthalmic article having easy-clean and anti-reflective properties comprising: a substrate having a first surface a plurality of refractive layers, a first of the plurality of refractive layers deposited directly on said first surface and a last of the plurality of refractive layers forming a second surface and a top layer having a surface energy in a range of approximately 30 to 90 millijoules per square meter deposited on the second surface the ophthalmic article having a refractive index in the range of approximately 1.40 to 1.49 at a wavelength of 589 nanometers only after the top layer is deposited on the second surface. 2. the ophthalmic article of claim 1 wherein the ophthalmic article is a single focal lens. 3. the ophthalmic article of claim 1 wherein the ophthalmic article is a multi-focal lens. 4. the ophthalmic article of claim 1 wherein the plurality of refractive layers comprises oxides. 5. the ophthalmic article of claim 1 wherein the top layer is silane-based. 6. the ophthalmic article of claim 1 wherein the top layer comprises pores having diameters in a range of approximately 5 to 20 nanometers. 7. the ophthalmic article of claim 1 wherein the top layer comprises a surfactant. 8. a coating that imparts an easy-cleaning property on a surface comprising: a cured surface comprising pores having diameters in a range of approximately 2 to 100 nanometers and a surface energy in a range of approximately 30 to 90 millijoules per square meter. 9. the coating of claim 8 wherein the cured surface comprises one or more silanes. 10. the coating of claim 8 wherein the cured surface is in the range of approximately 5 to 500 nanometers thick. 11. the coating of claim 8 wherein the cured surface has a percent total light transmission in a range of approximately 85 to 99. 12. the coating of claim 8 wherein the surface energy has a polar component in a range of approximately 14 to 40 millijoules per square meter. 13. the coating of claim 8 wherein the surface energy has a dispersive component in a range of approximately 20 to 40 millijoules per square meter. 14. a method from making an ophthalmic article having easy-clean and anti-reflective properties comprising: forming a plurality of refractive layers on a surface of an ophthalmic article applying a saline-based layer having a cured surface energy in a range of approximately 30 to 90 millijoules per square meter on said plurality of refractive layers and imparting the ophthalmic article with a refractive index in a range of approximately 1.40 to 1.49 at a wavelength of 589 nanometers through said step of applying a saline-based layer on said plurality of refractive layers. 15. the method of claim 14 wherein the step of applying a saline-based layer having a cured surface energy in a range of approximately 30 to 90 millijoules per square meter on said plurality of refractive layers comprises forming a composition having particle sizes in the range of 3 to 20 nanometers. 16. the method of claim 14 wherein the step of applying a saline-based layer having a cured surface energy in a range of approximately 30 to 90 millijoules per square meter on said plurality of refractive layers comprises applying a solution having a solids content by weight of 0.86 percent on said plurality of refractive layers. 17. the method of claim 14 wherein the step of applying a saline-based layer having a cured surface energy in a range of approximately 30 to 90 millijoules per square meter on said plurality of refractive layers comprises applying the saline-based layer in a thickness in the range of approximately 5 to 500 nanometers. 18. the method of claim 14 further comprising the step of treating the saline-based layer with a surfactant. 19. the method of claim 14 wherein the step of forming a plurality of refractive layers on a surface of an ophthalmic article comprises forming a plurality of different oxide layers. 20. the method of claim 14 wherein the step of forming a plurality of refractive layers on a surface of an ophthalmic article comprises forming a series of refractive layers on a surface of a multi-focal lens.

Results: 7

Search history

Search PN=(WO2015123473) (Results 1)

1:

Search [SP]: 1. an ophthalmic article having easy-clean and anti-reflective properties comprising: a substrate having a first surface a plurality of refractive layers, a first of the plurality of refractive layers deposited directly on said first surface and a last of the plurality of refractive layers forming a second surface and a top layer having a surface energy in a range of approximately 30 to 90 millijoules per square meter deposited on the second surface the ophthalmic article having a refractive index in the range of approximately 1.40 to 1.49 at a wavelength of 589 nanometers only after the top layer is deposited on the second surface. 2. the ophthalmic article of claim 1 wherein the ophthalmic article is a single focal lens. 3. the ophthalmic article of claim 1 wherein the ophthalmic article is a multi-focal lens. 4. the ophthalmic article of claim 1 wherein the plurality of refractive layers comprises oxides. 5. the ophthalmic article of claim 1 wherein the top layer is silane-based. 6. the ophthalmic article of claim 1 wherein the top layer comprises pores having diameters in a range of approximately 5 to 20 nanometers. 7. the ophthalmic article of claim 1 wherein the top layer comprises a surfactant. 8. a coating that imparts an easy-cleaning property on a surface comprising: a cured surface comprising pores having diameters in a range of approximately 2 to 100 nanometers and a surface energy in a range of approximately 30 to 90 millijoules per square meter. 9. the coating of claim 8 wherein the cured surface comprises one or more silanes. 10. the coating of claim 8 wherein the cured surface is in the range of approximately 5 to 500 nanometers thick. 11. the coating of claim 8 wherein the cured surface has a percent total light transmission in a range of approximately 85 to 99. 12. the coating of claim 8 wherein the surface energy has a polar component in a range of approximately 14 to 40 millijoules per square meter. 13. the coating of claim 8 wherein the surface energy has a dispersive component in a range of approximately 20 to 40 millijoules per square meter. 14. a method from making an ophthalmic article having easy-clean and anti-reflective properties comprising: forming a plurality of refractive layers on a surface of an ophthalmic article applying a saline-based layer having a cured surface energy in a range of approximately 30 to 90 millijoules per square meter on said plurality of refractive layers and imparting the ophthalmic article with a refractive index in a range of approximately 1.40 to 1.49 at a wavelength of 589 nanometers through said step of applying a saline-based layer on said plurality of refractive layers. 15. the method of claim 14 wherein the step of applying a saline-based layer having a cured surface energy in a range of approximately 30 to 90 millijoules per square meter on said plurality of refractive layers comprises forming a composition having particle sizes in the range of 3 to 20 nanometers. 16. the method of claim 14 wherein the step of applying a saline-based layer having a cured surface energy in a range of approximately 30 to 90 millijoules per square meter on said plurality of refractive layers comprises applying a solution having a solids content by weight of 0.86 percent on said plurality of refractive layers. 17. the method of claim 14 wherein the step of applying a saline-based layer having a cured surface energy in a range of approximately 30 to 90 millijoules per square meter on said plurality of refractive layers comprises applying the saline-based layer in a thickness in the range of approximately 5 to 500 nanometers. 18. the method of claim 14 further comprising the step of treating the saline-based layer with a surfactant. 19. the method of claim 14 wherein the step of forming a plurality of refractive layers on a surface of an ophthalmic article comprises forming a plurality of different oxide layers. 20. the method of claim 14 wherein the step of forming a plurality of refractive layers on a surface of an ophthalmic article comprises forming a series of refractive layers on a surface of a multi-focal lens. (Results 7)

Title: EASY-CLEAN COATING

Abstract: Source: US2015226886A An easy-cleaning coating, an easy cleaning coating having anti-fogging properties, and an easy-cleaning, anti-reflective coating.

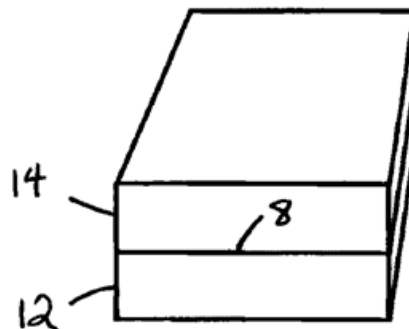
Classifications:

International (IPC 8-9): C09D183/04 C09D183/12 G02B1/10 G02B1/11 G02B1/18 G02B27/00 (Advanced/Invention); G02B1/10 (Core/Invention)

CPC: C09D183/12 G02B1/11 G02B27/0006 G02B2207/107 G02B2207/109

US: 351/159.01 427/162 428/220 521/154

PatBase - US2015226886_AA



Family:

Publication number	Publication date	Application number	Application date
CA2939226 AA	20160809	CA20152939226	20150212
CL2016002052 A1	20170203	CL20160002052	20160812
CN106164710 A	20161123	CN201580018990	20150212
CO20160001650 A2	20161216	CO20160001650	20160907
ID201710471 A	20170929	ID2016P0005767	20150212
IN201617028324 A	20170106	IN201617028324	20160819
KR20160119804 A	20161014	KR20167023978	20150212
MX2016010539 A1	20161130	MX20160010539	20150212
PE11282016 A1	20161119	PE20160001472	20150212
TH168090 A	20170921	TH20161004662	20150212
US2015226886 AA	20150813	US20150621334	20150212
WO15123473 A1	20150820	WO2015US15717	20150212

Priority:

US20140939147P 20140212 US20140945676P 20140227 US20150621334 20150212
WO2015US15717 20150212

Probable Assignee: INSIGHT EQUITY APX LP DBA VISION EASE LENS

Assignee(s): (std): INSIGHT EQUITY A P X L P DBA VISION EASE LENS ; INSIGHT EQUITY A P X LP DBA VISION EASE LENS ; VISION EASE LP

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2939226 AA	20160809	LSPB	+	published / reissued	
CL2016002052 A1	20170203	LSPB	+	published / reissued	
CN106164710 A	20161123	LSPB	+	published / reissued	
CN106164710 A	20161123	LSPB	+C06	PUBLICATION	
CO20160001650 A2	20161216	LSPB	+	published / reissued	
ID201710471 A	20170929	LSPB	+	published / reissued	
IN201617028324 A	20170106	LSPB	+	published / reissued	
KR20160119804 A	20161014	LSPB	+	published / reissued	
MX2016010539 A1	20161130	LSPB	+	published /	

PE11282016 A1	20161119	LSPB	+	reissued	
TH168090 A	20170921	LSPB	+	published / reissued	
US2015226886 AA	20150813	LSPB	+	published / reissued	
US2015226886 AA	20150325	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INSIGHT EQUITY A.P.X. LP (DBA VISION-EASE LENS), M OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KISSEL, DAVID J.; HAWK, PATRICK S.; BOULINEAU, MICHAEL S.; REEL/FRA:035256/0765 EFFECTIVE DATE : 20150216
US2015226886 AA	20160415	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INSIGHT EQUITY A.P. X, LP (DBA VISION-EASE LENS), OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNEE STATE CORPORATION INSIDE THE ASSIGNMENT DOCUMENT PREVIOUSLY RECORDED AT REEL: 035256 FRAME: 0765. ASSIGNOR(S) HEREBY CONFIRMS THE ASSIGNMENT; ASSIGNORS:KISSEL, DAVID J.; HAWK, PATRICK S.; BOULINEAU, MICHAEL S.; REEL/FRA:038524/0926 EFFECTIVE DATE : 20150216
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US2015226886 AA	20171030	LSES	-NFA2	Non Final Action Counted, Not Yet Mailed	
US2015226886 AA	20171031	LSES	NFA1	Non Final Action Mailed	
WO15123473 A1	20150820	LSPB	+	published / reissued	
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WO15123473 A1	20170308	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 15749566 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: METHOD OF PREPARING NANO-STRUCTURED SURFACE COATINGS AND COATED ARTICLES

Abstract: Source: US2006019114A The invention relates to new processes for the preparation of antireflective coatings and coated substrates, as well as articles produced by these processes. These coatings can include one or more layers made of materials which form nano-structured and/or nano-porous surfaces. The process can include applying a cross-linkable hard coat to a substrate, partially curing or cross-linking the hard coat, and then applying a second coat carried by a solvent or mixture of solvents capable of swelling the partially cured hard coat. The second coat is then cross-linked and grafted to the hard coat to produce a durable coated substrate with antireflective properties.

Classifications:

International (IPC 8-9): B05D1/12 B05D1/38 B05D5/06 B05D7/24 B32B27/30 B32B3/00 B32B3/26 B32B5/16 B32B9/04 B82B3/00 B82Y30/00 C03C17/00 C04B41/45 C04B41/81 C08F2/46 C08F2/48 C09D1/00 C09D183/04 C09D4/00 C09D5/00 C09D7/12 G02B1/11 (Advanced/Invention); B82B3/00 C09D4/00 C09D7/12 (Advanced/Non-invention); B05D1/12 B05D5/06 B05D7/24 B32B27/30 B32B3/00 B32B3/26 B32B5/16 B32B9/04 B82B3/00 C03C17/00 C04B41/45 C04B41/81 C08F2/46 C09D1/00 C09D4/00 C09D5/00 C09D7/12 G02B1/10 (Core/Invention)

International (IPC 1-7): C03C17/00 C09D1/00 C09D183/04 C09D4/00 C09D5/00 C09D7/12

CPC: C03C17/007 C03C2217/425 C04B41/009 C04B41/4584 C04B41/81 C08K3/20 C08K3/36 C08K9/08 G02B1/11 C09D4/00 C09D7/62

European: C03C17/00D2 C04B41/00V C04B41/45P C04B41/81 C09D4/00 C09D7/12D2 C09D7/12D2B G02B1/11 M03C217/425 M08K3/20 M08K3/36 M08K9/08

US: 427/162 427/162S 427/164 427/164S 427/180 427/180S 427/402 427/402S 427/407.1 427/487 427/487S 427/493 427/495 427/508 427/508S 428/312.2 428/312.200P 428/315.5 428/315.500S 428/315.7 428/315.700P 428/411.1 428/411.100P 428/515 428/522 428/522P

PatBase - US7892606_BB

U.S. Patent Feb. 22, 2011 Sheet 1 of 9 US 7,892,606 B2

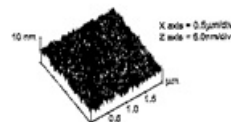


Fig. 1A

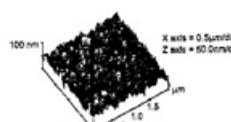


Fig. 1B

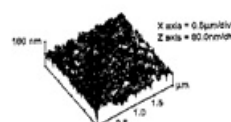


Fig. 1C

Family:

Publication number	Publication date	Application number	Application date
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AT435890 E	20090715	AT20040732852T	20040513
CN100379828 C	20080409	CN200480013720	20040513
CN1791646 A	20060621	CN200480013720	20040513
DE602004021919 D1	20090820	DE200460021919T	20040513
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DK1479734 T3	20090511	DK20030076510T	20030520
DK1625182 T3	20090907	DK20040732852T	20040513
EP1479734 A1	20041124	EP20030076510	20030520
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TWI357403 B	20120201	TW20040113857	20040517
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US2006275595 AA	20061207	US20040557243	20040513
US2008248312 AA	20081009	US20070724252	20070315
US2009029145 AA	20090129	US20080182955	20080730
US7704608 BB	20100427	US20070724252	20070315
US7892606 BB	20110222	US20040958657	20041006
WO04104113 A1	20041202	WO2004NL00329	20040513

Priority:

EP20030076510	20030520	EP20040075534	20040220	US20030471746P	20030520
EP20040732852	20040513	US20050557243	20051116	US20040958657	20041006
WO2004NL00329	20040513	US20070724252	20070315	US20080182955	20080730

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
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AT422525 E	20090815	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT422525 E	20230520	PEXP		Calculated Patent Term Expiry	
AT435890 E	20090715	LSGT	+	granted / extensions (spc, cpc, pte)	
AT435890 E	20100115	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT435890 E	20240513	PEXP		Calculated Patent Term Expiry	
CN100379828 C	20080409	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100379828 C	20080409	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100379828 C	20240513	PEXP		Calculated Patent Term Expiry	
CN1791646 A	20060621	LSPB	+	published / reissued	
CN1791646 A	20060621	LSPB	+C06	PUBLICATION	
DE602004021919 D1	20100729	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60326121 D1	20100311	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DK1479734 T3	20090511	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1479734 T3	20230520	PEXP		Calculated Patent Term Expiry	
DK1625182 T3	20090907	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1479734 A1	20041124	LSPB	+	published / reissued	
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				POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20090211
EP1479734 A1	20091030	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 : 20090713
EP1479734 A1	20091130	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 : 20090211
EP1479734 A1	20091130	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 : 20090211
EP1479734 A1	20091231	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20090531
EP1479734 A1	20100120	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20091112
EP1479734 A1	20100129	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 : 20090511
EP1479734 A1	20100430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090520
EP1479734 A1	20101029	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 : 20090512
EP1479734 A1	20110429	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 : 20090520
EP1479734 A1	20110630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20090812
EP1479734 A1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20090211

EP1479734 A1	20110930	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 : 20090211
EP1479734 A1	20160412	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160510 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160518 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20160509 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160414 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160518 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160511 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20160510 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160412 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160524 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20160511 YEAR OF FEE PAYMENT : 14
EP1479734 A1	20170413	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 15
EP1479734 A1	20170630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170512 YEAR OF FEE PAYMENT : 15
EP1479734 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170516 YEAR OF FEE PAYMENT : 15
EP1479734 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20170510 YEAR OF FEE PAYMENT : 15
EP1479734 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170413 YEAR OF FEE PAYMENT : 15
EP1479734 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170517 YEAR OF FEE PAYMENT : 15

EP1479734 A1	20170731	LSFE	+PGFP	OFFICE POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20170512 YEAR OF FEE PAYMENT : 15
EP1479734 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170522 YEAR OF FEE PAYMENT : 15
EP1479734 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20170509 YEAR OF FEE PAYMENT : 15
EP1479734 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20170602 YEAR OF FEE PAYMENT : 15
EP1479734 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20170511 YEAR OF FEE PAYMENT : 15
EP1479734 B1	20090211	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1479734 B1	20230520	PEXP		Calculated Patent Term Expiry	
EP1625182 A1	20060215	LSPB	+	published / reissued	
EP1625182 A1	20060215	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20051206
EP1625182 A1	20060816	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20060228
EP1625182 A1	20070530	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20060228
EP1625182 A1	20090708	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1625182 A1	20090715	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1625182 A1	20090805	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1625182 A1	20091105	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2327927 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1625182 A1	20091130	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 : 20090708
EP1625182 A1	20100129	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 : 20090708
EP1625182 A1	20100331	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 : 20091109
EP1625182 A1	20100331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE

EP1625182 A1	20100430	LSLE	-PG25	VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20091008
EP1625182 A1	20100430	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 : 20090708
EP1625182 A1	20100430	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 : 20090708
EP1625182 A1	20100430	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 : 20090708
EP1625182 A1	20100531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20090708
EP1625182 A1	20100531	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 : 20090708
EP1625182 A1	20100616	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20100409
EP1625182 A1	20101029	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 : 20091009
EP1625182 A1	20101231	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20100531
EP1625182 A1	20110429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20100513
EP1625182 A1	20120831	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 : 20090708
EP1625182 A1	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100109

EP1625182 A1	20120928	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20100513
EP1625182 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR 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 : 20090708
EP1625182 A1	20160412	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 13
EP1625182 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20160315 YEAR OF FEE PAYMENT : 13
EP1625182 A1	20160630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160510 YEAR OF FEE PAYMENT : 13
EP1625182 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160511 YEAR OF FEE PAYMENT : 13
EP1625182 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160511 YEAR OF FEE PAYMENT : 13
EP1625182 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160510 YEAR OF FEE PAYMENT : 13
EP1625182 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160414 YEAR OF FEE PAYMENT : 13
EP1625182 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20160509 YEAR OF FEE PAYMENT : 13
EP1625182 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160524 YEAR OF FEE PAYMENT : 13
EP1625182 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160412 YEAR OF FEE PAYMENT : 13
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EP1625182 A1	20170413	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 14
EP1625182 A1	20170531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20170315 YEAR OF FEE PAYMENT : 14
EP1625182 A1	20170630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170512 YEAR OF FEE PAYMENT : 14

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EP1625182 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20170510 YEAR OF FEE PAYMENT : 14
EP1625182 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170510 YEAR OF FEE PAYMENT : 14
EP1625182 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170509 YEAR OF FEE PAYMENT : 14
EP1625182 A1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20170512 YEAR OF FEE PAYMENT : 14
EP1625182 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20170602 YEAR OF FEE PAYMENT : 14
EP1625182 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170522 YEAR OF FEE PAYMENT : 14
EP1625182 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20170511 YEAR OF FEE PAYMENT : 14
EP1625182 A1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FI PAYMENT DATE : 20170509 YEAR OF FEE PAYMENT : 14
EP1625182 B1	20090708	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1625182 B1	20240513	PEXP		Calculated Patent Term Expiry	
ES2321390 T3	20090605	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2321390 T3	20230520	PEXP		Calculated Patent Term Expiry	
ES2327927 T3	20091105	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2327927 T3	20240513	PEXP		Calculated Patent Term Expiry	
IN03073CN2005 A	20070727	LSPB	+	published / reissued	
IN234070 B	20090529	LSGT	+	granted / extensions (spc, cpc, pte)	
IN234070 B	20251118	PEXP		Calculated Patent Term Expiry	
JP2007507342 T2	20070329	LSPB	+	published / reissued	
JP2007507342 T2	20070426	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20070425
JP2007507342 T2	20070427	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20070426
JP2007507342 T2	20100106	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100105
JP2007507342 T2	20100721	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02

KR101114798 B1	20120305	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101114798 B1	20251118	PEXP		Calculated Patent Term Expiry	
KR20060017610 A	20060224	LSPB	+	published / reissued	
KR20060017610 A	20090513	LSES	A201	REQUEST FOR EXAMINATION	
KR20060017610 A	20101118	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20060017610 A	20110919	LSRV	-E90F	NOTIFICATION OF REASON FOR FINAL REFUSAL	
KR20060017610 A	20111130	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20060017610 A	20120202	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR20060017610 A	20150116	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20150116 YEAR OF FEE PAYMENT : 4
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KR20060017610 A	20170102	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20170102 YEAR OF FEE PAYMENT : 6
KR20060017610 A	20180103	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20180103 YEAR OF FEE PAYMENT : 7
MXPA05012488 A1	20060222	LSPB	+	published / reissued	
TW200505810 A	20050216	LSPB	+	published / reissued	
TWI357403 B	20120201	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI357403 B	20240517	PEXP		Calculated Patent Term Expiry	
US2006019114 AA	20060126	LSPB	+	published / reissued	
US2006019114 AA	20070125	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DSM IP ASSETS B.V., NETHERLANDS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:THIES, JENS C.; CURRIE, EDWIN; MEIJERS, GUIDO J.; AND OTHERS; REEL/FRAME:018842/0777; SIGNING DATES FROM 20070104 TO 20070118
US2006275595 AA	20061207	LSPB	+	published / reissued	
US2006275595 AA	20060222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DSM IP ASSETS B.V., NETHERLANDS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:THIES, JENS CHRISTOPH; MEIJERS, GUIDO JOZEFINA WILHELMUS; NIJENHUIS, ATZE JAN; AND OTHERS; REEL/FRAME:017972/0134; SIGNING DATES FROM 20051208 TO 20060202
US2006275595 AA	20090202	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2008248312 AA	20081009	LSPB	+	published / reissued	
US2009029145 AA	20090129	LSPB	+	published / reissued	

US2009029145 AA	20120128	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US7704608 BB	20100427	LSGT	+	granted / extensions (spc, cpc, pte)	
US7704608 BB	20100407	LSGT	PAT1	Patented Case	
US7704608 BB	20130925	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7704608 BB	20171012	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7704608 BB	20270830	PEXP		Calculated Patent Term Expiry (PTA 168 days)	
US7892606 BB	20110222	LSGT	+	granted / extensions (spc, cpc, pte)	
US7892606 BB	20110202	LSGT	PAT1	Patented Case	
US7892606 BB	20140723	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7892606 BB	20280522	PEXP		Calculated Patent Term Expiry (PTA 1324 days)	
WO04104113 A1	20041202	LSPB	+	published / reissued	
WO04104113 A1	20041006	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10958657 COUNTRY OF REF DOCUMENT : US
WO04104113 A1	20051003	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004732852 COUNTRY OF REF DOCUMENT : EP
WO04104113 A1	20051116	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10557243 COUNTRY OF REF DOCUMENT : US
WO04104113 A1	20051116	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006275595 COUNTRY OF REF DOCUMENT : US
WO04104113 A1	20051118	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 20048137206 COUNTRY OF REF DOCUMENT : CN
WO04104113 A1	20051118	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020057022061 COUNTRY OF REF DOCUMENT : KR
WO04104113 A1	20051118	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2005/012488 COUNTRY OF REF DOCUMENT : MX
WO04104113 A1	20051121	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006532119 COUNTRY OF REF DOCUMENT : JP
WO04104113 A1	20060215	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2004732852 COUNTRY OF REF DOCUMENT : EP
WO04104113 A1	20060224	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020057022061 COUNTRY OF REF DOCUMENT : KR
WO04104113 A1	20061207	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10557243 COUNTRY OF REF DOCUMENT : US

Title: PROCESS FOR REPLACING AN INITIAL OUTERMOST COATING LAYER OF A COATED OPTICAL LENS WITH A DIFFERENT COATING LAYER OR BY DEPOSITING THEREON A DIFFERENT COATING LAYER

Abstract: Source: US2004253369A The invention concerns a process for replacing an initial outermost coating layer of a coated optical lens with a layer of a new final coating having surface properties different from those of said initial outermost coating which comprises: (a) providing a coated optical lens having an initial outermost coating layer having a surface contact angle with water of at least 65 degrees; (b) subjecting the initial outermost coating layer to a treatment with activated chemical species at about atmospheric pressure, and for less than one minute, in order there is obtained a treated surface having a contact angle with water of 10 degrees or less; and (c) depositing on said treated surface a layer of a final coating having surface properties different from those of said initial outermost coating.

Classifications:

International (IPC 8-9): B05D3/14 B05D5/06 C03C17/00 C03C17/42 C08J7/00 C08J7/12 C08J7/18 G02B1/04 G02B1/10 G02B1/11 G02B1/12 G02C7/02 (Advanced/Invention); G02B1/04 G02B1/10 G02B1/12 (Advanced/Non-invention); B05D3/14 B05D5/06 C03C17/00 C03C17/42 C08J7/00 G02B1/04 G02B1/10 G02C7/02 (Core/Invention)

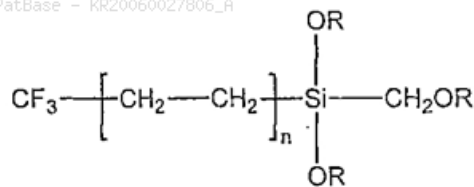
International (IPC 1-7): B05D5/06 C08J7/18 G02B1/04 G02B1/12 H05H1/00

CPC: G02B1/115 G02B1/14 G02B1/18 C08J7/123 B05D3/141 B05D3/142 C03C17/001 C03C17/42 C03C2217/734 G02B1/105

European: B05D3/14C C03C17/00B C03C17/42 C08J7/12A G02B1/10B L05D3/14C3 M03C217/734

US: 427/14 427/140 427/140S 427/162 427/162P 427/166 427/167 427/255.6 427/255.7 427/402 427/535 427/535S 427/561

PatBase - KR20060027806_R



Family:

Publication number	Publication date	Application number	Application date
AU2004248264 AA	20041223	AU20040248264	20040610
AU2004248264 BB	20090827	AU20040248264	20040610
BRPI0411415 A	20060725	BR2004PI11415	20040610
BRPI0411415 B1	20170207	BR2004PI11415	20040610
CA2529321 A	20051213	CA20042529321	20040610
CA2529321 C	20090818	CA20042529321	20040610
CN100514089 C	20090715	CN200480019952	20040610
CN1823282 A	20060823	CN200480019952	20040610
DE602004045720 D1	20141009	DE200460045720T	20040610
EP1636616 A1	20060322	EP20040739790	20040610
EP1636616 B1	20140827	EP20040739790	20040610
ES2523847 T3	20141202	ES20040739790T	20040610
IN05621DN2005 A	20080118	IN2005DN05621	20051205
JP2006527402 T2	20061130	JP20060515888T	20040610
JP4820751 B2	20111124	JP20060515888T	20040610
KR101234691 B1	20130219	KR20057024005	20040610
KR20060027806 A	20060328	KR20057024005	20040610
US2004253369 AA	20041216	US20030461091	20030613
US7217440 BB	20070515	US20030461091	20030613
WO04111691 A1	20041223	WO2004EP06293	20040610

Priority:

EP20040739790 20040610 US20030461091 20030613 WO2004EP06293 20040610

Probable Assignee: ESSILOR INT COMP GENERALE D OPTIQUE

Assignee(s): (std): ESSILOR INT ; ESSILOR INT CIE GENERALE D OPTIQUE ; JALLOULI AGNES ; FOURNAND GERALD ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): ESSILOR INTERNATIONAL (COMPAGNIE GENERALE... ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMP GEN D OPTIQUE ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INT COMP GENERALE D'OPTIQUE

Inventor(s): (std): AGN S JALLOULI ; AGNES JALLOULI ; FOURNAND GERALD ; GERALD FOURNAND ; GERALD JALLOULI AGNES FOURNAND ; JALLOULI AGN S ; JALLOULI AGNES ; JALLOULI AGNES DE LEUZE

Inventor(s): JALLOULI AGNES FOURNAND GERALD ; JALLOULI AGNES LARGO ; FOURNAND GERALD TAMPA ; AGNTHS JALLOULI

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; GOWLING LAFLEUR HENDERSON LLP; CATHERINE ALAIN; LEHMANN MARIA ISABEL; FULBRIGHT AND JAWORSKI LLP

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

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AU2004248264 AA	20041223	LSPB	+	published / reissued	
AU2004248264 AA	20091224	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	

AU2004248264 AA	20170119	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2004248264 BB	20090827	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2004248264 BB	20240610	PEXP		Calculated Patent Term Expiry	
BRPI0411415 A	20060725	LSPB	+	published / reissued	
BRPI0411415 A	20161129	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI0411415 A	20170207	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	
BRPI0411415 B1	20240610	PEXP		Calculated Patent Term Expiry	
CA2529321 AA	20051213	LSPB	+	published / reissued	
CA2529321 AA	20060322	LSES	+EEER	EXAMINATION REQUEST	
CA2529321 AA	20170724	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20170612
CA2529321 C	20090818	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2529321 C	20240610	PEXP		Calculated Patent Term Expiry	
CN100514089 C	20090715	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100514089 C	20090715	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100514089 C	20240610	PEXP		Calculated Patent Term Expiry	
CN1823282 A	20060823	LSPB	+	published / reissued	
CN1823282 A	20060823	LSPB	+C06	PUBLICATION	
EP1636616 A1	20060322	LSPB	+	published / reissued	
EP1636616 A1	20060322	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20060113
EP1636616 A1	20101006	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100908
EP1636616 A1	20140409	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B05D 3/14 20060101AFI20140303BHEP
EP1636616 A1	20140409	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C03C 17/42 20060101ALI20140303BHEP
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EP1636616 A1	20140409	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G02B 1/10 20060101ALI20140303BHEP
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EP1636616 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160627 YEAR OF FEE PAYMENT : 13
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EP1636616 B1	20141009	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602004045720 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20141009
EP1636616 B1	20141202	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2523847 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20141202
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EP1636616 B1	20150128	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20140827
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EP1636616 B1	20150528	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602004045720 COUNTRY OF REF DOCUMENT : DE
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				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 : 20140827
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EP1636616 B1	20170627	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 14

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EP1636616 B1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170622 YEAR OF FEE PAYMENT : 14
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EP1636616 B1	20240610	PEXP		Calculated Patent Term Expiry	
ES2523847 T3	20141202	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2523847 T3	20240610	PEXP		Calculated Patent Term Expiry	
IN05621DN2005 A	20080118	LSPB	+	published / reissued	
JP2006527402 T2	20061130	LSPB	+	published / reissued	
JP2006527402 T2	20070405	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20070404
JP2006527402 T2	20100120	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100119
JP2006527402 T2	20100721	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20100720
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JP2006527402 T2	20110503	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110502
JP2006527402 T2	20110815	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2006527402 T2	20110824	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20110823
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JP2006527402 T2	20110908	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20110905
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JP4820751 B2	20110906	LSFE	R100	特許料納付書 Patent fee payment form	
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US2004253369 AA	20041216	LSPB	+	published / reissued	
US2004253369 AA	20031014	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ESSILOR INTERNATIONAL COMPAGNIE GENERALE D'OPTIQUE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JALLOULI, AGNES DE LUEZE; FOURNAND, GERALD; REEL/FRAME:014579/0540 EFFECTIVE DATE : 20030731
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WO04111691 A1	20060725	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0411415 COUNTRY OF REF DOCUMENT : BR

Title: BIOMIMETIC WATER MEMBRANE COMPRISING AQUAPORINS USED IN THE PRODUCTION OF SALINITY POWER

Abstract: Source: US2009007555A The present invention relates to the use of aquaporin containing membranes in the production of salinity power. The membranes are preferably lipid bilayers incorporating reconstituted aquaporin channels, e.g. entrapped between porous support materials, or alternatively enclosing a highly hydrophobic porous support material. Also disclosed is a salinity power plant.

Classifications:

International (ipc 8-9): B01D B01D61/00 B01D61/02 B01D61/06 B01D61/08 B01D61/24 B01D61/38 B01D65/00 B01D67/00 B01D69/00 B01D69/02 B01D69/10 B01D69/12 B01D69/14 B01D71/02 B01D71/06 B01D71/10 B01D71/36 B01D71/68 B01D71/74 B01D71/80 C02F1/44 C02F103/04 C08J9/40 F03B13/00 F03B17/02 F03G F03G7/00 F03G7/06 (Advanced/Invention); C02F103/04 C07K14/00 (Advanced/Non-invention); B01D61/00 B01D61/02 B01D61/24 B01D61/38 B01D69/00 B01D71/00 C02F1/44 F03G7/00 F03G7/06 (Core/Invention); B01D C02F F03G (Subclass/Invention)

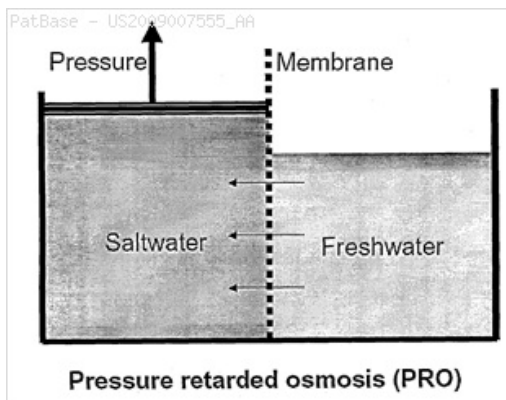
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European: B01D61/00B B01D69/02 B01D69/10 B01D69/14B B01D69/14B10 B01D71/06 B01D71/74 B01D71/80 C02F1/44 C07K14/705 F03G7/00C M02F1/44B M02F1/44C Y02E10/36

US: 210/170.11 210/321.65 210/321.66 210/321.71 210/321.710S 210/321.75 210/500.1 210/500.21 210/500.210S 210/500.29

210/637 210/638 210/641 210/650 210/651 210/652 210/653 210/655 290/54 422/101 422/534 424/450 60/326 60/326P 60/445 60/445S



Family:

Publication number	Publication date	Application number	Application date
AT457823 E	20100315	AT20060722955T	20060519
AT532576 E	20111115	AT20060791419T	20060920
AU2006246841 AA	20061123	AU20060246841	20060519
AU2006246841 BB	20101223	AU20060246841	20060519
AU2006246841 CA	20110721	AU20060246841	20060519
AU2006294205 AA	20070329	AU20060294205	20060920
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NO20081182 L	20080606	NO20080001182	20080306
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US2009120874 AA	20090514	US20060915121	20060519
US7857978 BB	20101228	US20060915121	20060519
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WO07033675 A1	20070329	WO2006DK00520	20060920

Priority:

AU20060246841	20060519	CN200680017301	20060519	DK20050000740	20050920
DK20060246841	20060519	DK20050000740	20050520	DK20050001309	20050920
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US20050718890P	20050920	JP20120132624	20060519		

Probable Assignee: AQUAPORIN A S

Assignee(s): (std): AQUAPORIN APS ; JENSEN PETER HOLME ; KELLER DANIELLE ; AQUAPORIN AS

Assignee(s): NIELSEN CLAUS HELIX ; AQUAPORIN A S

Inventor(s): (std): DANIELLE KELLER ; HELIX NILELSEN CLAUS ; HOLME JENSEN PETER ; JENSEN PETER ; JENSEN PETER HOLME ; KELLER DANIELLE ; NIELSEN CLAUS HELIX ; PETER JENSEN ; NILELSEN CLAUS HELIX ; HELIX NIELSEN CLAUS

Inventor(s): CLAUS HELIX NIELSEN ; PETER HOLME JENSEN ; THE DESIGNATION OF THE INVENTOR HAS NOT YET...

Agent(s): FB RICE; FB RICE PTY LTD; BERESKIN AND PARR LLP; BERESKIN AND PARR LLP SENCRL SRL; PIASETZKI NENNIGER KVAS LLP; LEINWEBER AND ZIMMERMANN; KIDDLE SIMON JOHN; KIDDLE SIMON JOHN ET AL; PONTI ADELAIDA; REINHOLD COHN AND PARTNERS; KOBAYASHI YASUSHI; YAMAMOTO OSAMU; IZUMIYA REIKO; HOSHINO OSAMU; ONO SHINJIRO; KAJITA TSUYOSHI; TAKEUCHI SHIGEO; CLARK AND ELBING LLP; KRISTINA

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT457823 E	20100315	LSGT	+	granted / extensions (spc, cpc, pte)	
AT457823 E	20100815	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
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AT532576 E	20260920	PEXP		Calculated Patent Term Expiry	
AU2006246841 AA	20061123	LSPB	+	published / reissued	
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AU2006294205 BB	20101216	LSGT	+	granted / extensions (spc, cpc, pte)
AU2006294205 BB	20110414	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)
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EP1885477 B1	20100726	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	REF COUNTRY CODE : EP EFFECTIVE DATE : 20100217
EP1885477 B1	20100730	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 : 20100617
EP1885477 B1	20100730	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 : 20100217
EP1885477 B1	20100730	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 : 20100617
EP1885477 B1	20100831	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 : 20100217
EP1885477 B1	20100831	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 : 20100217
EP1885477 B1	20100831	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 : 20100217
EP1885477 B1	20100831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE :

				POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100217
EP1885477 B1	20100929	LSAS	RAP2	TRANSFER OF RIGHTS OF AN EP GRANTED PATENT	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S
EP1885477 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100217
EP1885477 B1	20101029	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 : 20100217
EP1885477 B1	20101029	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 : 20100217
EP1885477 B1	20101029	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 : 20100518
EP1885477 B1	20101029	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 : 20100217
EP1885477 B1	20101103	LSAS	RAP2	TRANSFER OF RIGHTS OF AN EP GRANTED PATENT	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S
EP1885477 B1	20101117	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : TD EFFECTIVE DATE : 20101028
EP1885477 B1	20101130	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 : 20100517
EP1885477 B1	20101130	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 : 20100217
EP1885477 B1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF DOCUMENT : SK

				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 : 20100217
EP1885477 B1	20101231	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 NON- PAYMENT OF DUE FEES LAPSED DATE : 20100531
EP1885477 B1	20101231	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1885477 B1	20110126	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20101118
EP1885477 B1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 20100531
EP1885477 B1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 20100531
EP1885477 B1	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100818
EP1885477 B1	20120928	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 : 20100519
EP1885477 B1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100217
EP1885477 B1	20160421	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : DE OWNER : AQUAPORIN A/S, DK REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 602006012307 COUNTRY OF REF DOCUMENT : DE OLDPARTY : FORMER OWNER : AQUAPORIN A/S, COPENHAGEN, DK
EP1885477 B1	20160525	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 11
EP1885477 B1	20170519	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170523 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	COUNTRY OF REF DOCUMENT : DE

				NATIONAL OFFICE	PAYMENT DATE : 20170531 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20170518 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170517 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170519 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20170519 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170524 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20170612 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20170519 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20170517 YEAR OF FEE PAYMENT : 12
EP1885477 B1	20260519	PEXP		Calculated Patent Term Expiry	
EP1937395 A1	20080702	LSPB	+	published / reissued	
EP1937395 A1	20080702	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20080314
EP1937395 A1	20090610	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20090512
EP1937395 A1	20100929	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S
EP1937395 A1	20101020	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S
EP1937395 A1	20151030	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20150916 YEAR OF FEE PAYMENT : 10
EP1937395 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20150929 YEAR OF FEE PAYMENT : 10
EP1937395 B1	20111109	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1937395 B1	20111109	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1937395 B1	20111115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1937395 B1	20111207	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1937395 B1	20120209	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602006025745 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120209

EP1937395 B1	20120215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP1937395 B1	20120323	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2377234 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20120323
EP1937395 B1	20120425	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	REF COUNTRY CODE : EP EFFECTIVE DATE : 20111109
EP1937395 B1	20120430	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 : 20120309
EP1937395 B1	20120430	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 : 20111109
EP1937395 B1	20120531	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 : 20120309
EP1937395 B1	20120531	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 : 20111109
EP1937395 B1	20120531	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 : 20111109
EP1937395 B1	20120531	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 : 20111109
EP1937395 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20111109
EP1937395 B1	20120531	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	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 : 20120210
EP1937395 B1	20120629	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 : 20111109
EP1937395 B1	20120731	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 : 20111109
EP1937395 B1	20120731	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 : 20111109
EP1937395 B1	20120731	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 : 20120209
EP1937395 B1	20120731	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 : 20111109
EP1937395 B1	20120831	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 : 20111109
EP1937395 B1	20120915	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 532576 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20111109
EP1937395 B1	20121017	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20120810
EP1937395 B1	20121206	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602006025745 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120810

EP1937395 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : AT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20111109
EP1937395 B1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120930
EP1937395 B1	20130430	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1937395 B1	20130628	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 : 20111109
EP1937395 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120930
EP1937395 B1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120930
EP1937395 B1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR 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 : 20111109
EP1937395 B1	20140530	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20120920
EP1937395 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20060920
EP1937395 B1	20160421	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTY TYPE : OWNER REF COUNTRY CODE : DE OWNER : AQUAPORIN A/S, DK REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 602006025745 COUNTRY OF REF DOCUMENT : DE OLD PARTY : FORMER OWNER: AQUAPORIN A/S, COPENHAGEN, DK
EP1937395 B1	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 : 11
EP1937395 B1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL	COUNTRY OF REF

				FEES PAID TO NATIONAL OFFICE	DOCUMENT : GB PAYMENT DATE : 20160920 YEAR OF FEE PAYMENT : 11
EP1937395 B1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 11
EP1937395 B1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 11
EP1937395 B1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 11
EP1937395 B1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 11
EP1937395 B1	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 11
EP1937395 B1	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 11
EP1937395 B1	20161230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160907 YEAR OF FEE PAYMENT : 11
EP1937395 B1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160927 YEAR OF FEE PAYMENT : 11
EP1937395 B1	20170821	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 12
EP1937395 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170821 YEAR OF FEE PAYMENT : 12
EP1937395 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170921 YEAR OF FEE PAYMENT : 12
EP1937395 B1	20171130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20170828 YEAR OF FEE PAYMENT : 12
EP1937395 B1	20171130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20170816 YEAR OF FEE PAYMENT : 12
EP1937395 B1	20171130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170913 YEAR OF FEE PAYMENT : 12
EP1937395 B1	20171130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20170811 YEAR OF FEE PAYMENT : 12
EP1937395 B1	20180131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20171129 YEAR OF FEE PAYMENT : 12
EP1937395 B1	20260920	PEXP		Calculated Patent Term Expiry	
EP2179780 A1	20100428	LSPB	+	published / reissued	
EP2179780 A1	20100428	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100226

EP2179780 A1	20100602	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S
EP2179780 A1	20100728	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100625
EP2179780 A1	20101103	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S
EP2179780 A1	20120125	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B01D 69/14 20060101AFI20111220BHEP
EP2179780 A1	20120125	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : C02F 1/44 20060101ALI20111220BHEP
EP2179780 A1	20120125	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B01D 69/02 20060101ALI20111220BHEP
EP2179780 A1	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 : 20130218
EP2179780 A1	20160630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20160525 YEAR OF FEE PAYMENT : 11
EP2179780 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160520 YEAR OF FEE PAYMENT : 11
EP2179780 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20160525 YEAR OF FEE PAYMENT : 11
EP2179780 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160525 YEAR OF FEE PAYMENT : 11
EP2179780 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20160504 YEAR OF FEE PAYMENT : 11
EP2179780 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20160525 YEAR OF FEE PAYMENT : 11
EP2179780 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160531 YEAR OF FEE PAYMENT : 11
EP2179780 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160525 YEAR OF FEE PAYMENT : 11
EP2179780 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20160525 YEAR OF FEE PAYMENT : 11
EP2179780 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20160512 YEAR OF FEE PAYMENT : 11
EP2179780 B1	20121017	LSGT	+	granted / extensions (spc, cpc, pte)	

EP2179780 B1	20121017	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2179780 B1	20121031	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2179780 B1	20121107	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2179780 B1	20121115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 579627 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20121115
EP2179780 B1	20121213	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602006032577 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20121213
EP2179780 B1	20130201	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2394467 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20130201
EP2179780 B1	20130220	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP2179780 B1	20130301	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1139890 COUNTRY OF REF DOCUMENT : HK
EP2179780 B1	20130315	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 579627 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20121017
EP2179780 B1	20130325	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2179780 B1	20260519	PEXP		Calculated Patent Term Expiry	
EP2179780 B9	20130430	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 : 20130217
EP2179780 B9	20130430	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 : 20121017
EP2179780 B9	20130430	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	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 : 20121017
EP2179780 B9	20130531	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 : 20121017
EP2179780 B9	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 : 20121017
EP2179780 B9	20130531	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 : 20130118
EP2179780 B9	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121017
EP2179780 B9	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 : 20130218
EP2179780 B9	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 : 20121017
EP2179780 B9	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 : 20121017
EP2179780 B9	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 : 20130117
EP2179780 B9	20130731	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	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 : 20121017
EP2179780 B9	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 : 20121017
EP2179780 B9	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 : 20121017
EP2179780 B9	20130925	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20130718
EP2179780 B9	20131114	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602006032577 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130718
EP2179780 B9	20131129	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 : 20121017
EP2179780 B9	20131231	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 : 20121017
EP2179780 B9	20131231	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP2179780 B9	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 20130531
EP2179780 B9	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 20130531
EP2179780 B9	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20121017
EP2179780 B9	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM.	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-

EP2179780 B9	20150731	LSLE	-PG25	FROM NAT. OFFICE TO EPO LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	PAYMENT OF DUE FEES LAPSED DATE : 20130519 COUNTRY OF REF DOCUMENT : HU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO LAPSED DATE : 20060519
EP2179780 B9	20160421	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTY TYPE : OWNER REF COUNTRY CODE : DE OWNER : AQUAPORIN A/S, DK REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 602006032577 COUNTRY OF REF DOCUMENT : DE OLD PARTY : FORMER OWNER : AQUAPORIN A/S, COPENHAGEN, DK
EP2179780 B9	20160525	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 11
EP2179780 B9	20170519	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170523 YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20170519 YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170519 YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20170518 YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170517 YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170531 YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20170524 YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20170519 YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20170612 YEAR OF FEE PAYMENT : 12
EP2179780 B9	20170831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20170517 YEAR OF FEE PAYMENT : 12
ES2340314 T3	20100601	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2340314 T3	20260519	PEXP		Calculated Patent Term Expiry	

ES2377234 T3	20120323	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2377234 T3	20260920	PEXP		Calculated Patent Term Expiry	
ES2394467 T3	20130201	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2394467 T3	20260519	PEXP		Calculated Patent Term Expiry	
HK1109357 A1	20100528	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1109357 A1	20280401	PEXP		Calculated Patent Term Expiry	
HK1109357 A3	20080606	LSPB	+	published / reissued	
HK1139890 A1	20130301	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1139890 A1	20300703	PEXP		Calculated Patent Term Expiry	
IL187164 A1	20110131	LSPB	+	published / reissued	
IL187164 A1	20110630	LSGT	+FF	PATENT GRANTED	
IL187164 A1	20110731	LSFE	+KB	PATENT RENEWED	
IL187164 A1	20120628	LSFE	+KB	PATENT RENEWED	
IL187164 A1	20160531	LSFE	+KB	PATENT RENEWED	
IL190074 A0	20140930	LSGT	+FF	PATENT GRANTED	
IL190074 A0	20140930	LSFE	+KB	PATENT RENEWED	
IL190074 A0	20160929	LSFE	+KB	PATENT RENEWED	
IL190074 A1	20140528	LSPB	+	published / reissued	
IL190074 A1	20140930	LSGT	+FF	PATENT GRANTED	
IL190074 A1	20140930	LSFE	+KB	PATENT RENEWED	
IL190074 A1	20160929	LSFE	+KB	PATENT RENEWED	
IL209514 A0	20141130	LSGT	+FF	PATENT GRANTED	
IL209514 A0	20141130	LSFE	+KB	PATENT RENEWED	
IL209514 A0	20160531	LSFE	+KB	PATENT RENEWED	
IL209514 A1	20140731	LSPB	+	published / reissued	
IL209514 A1	20141130	LSGT	+FF	PATENT GRANTED	
IL209514 A1	20141130	LSFE	+KB	PATENT RENEWED	
IL209514 A1	20160531	LSFE	+KB	PATENT RENEWED	
IN01345KN2008 A	20081226	LSPB	+	published / reissued	
IN04455KN2007 A	20080620	LSPB	+	published / reissued	
IN258338 B	20140103	LSGT	+	granted / extensions (spc, cpc, pte)	
IN258338 B	20280403	PEXP		Calculated Patent Term Expiry	
JP2008540108 T2	20081120	LSPB	+	published / reissued	
JP2008540108 T2	20090328	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20090327
JP2008540108 T2	20110105	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20110104
JP2008540108 T2	20110705	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110704
JP2008540108 T2	20120314	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20120313
JP2008540108 T2	20120613	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20120612
JP2008540108 T2	20120829	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20120828
JP2008540108 T2	20131211	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523

					EFFECTIVE DATE : 20131210
JP2008540108 T2	20140206	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20140129
JP2008540108 T2	20140207	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2009510301 T2	20090312	LSPB	+	published / reissued	
JP2009510301 T2	20090723	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20090722
JP2009510301 T2	20110302	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20110301
JP2009510301 T2	20110520	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110519
JP2009510301 T2	20110713	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20110712
JP2009510301 T2	20111112	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20111111
JP2009510301 T2	20111201	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20111111
JP2009510301 T2	20111207	LSAL	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A911 EFFECTIVE DATE : 20111206
JP2009510301 T2	20120116	LSAL	-A912	REMOVAL OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI)	TEXT : JAPANESE INTERMEDIATE CODE: A912 EFFECTIVE DATE : 20120113
JP2009510301 T2	20121205	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20121115
JP2012052552 A2	20120315	LSPB	+	published / reissued	
JP2012192408 A2	20121011	LSPB	+	published / reissued	
JP2014029153 A2	20140213	LSPB	+	published / reissued	
JP2014030823 A2	20140220	LSPB	+	published / reissued	
JP2014094378 A2	20140522	LSPB	+	published / reissued	
JP2014094378 A2	20150325	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20150324
JP2014094378 A2	20150821	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20150820
JP5394466 B2	20140122	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5394466 B2	20111213	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20111212
JP5394466 B2	20121117	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20121116
JP5394466 B2	20130306	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20130305
JP5394466 B2	20130906	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130905
JP5394466 B2	20131004	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP5394466 B2	20131010	LSGT	+A01	WRITTEN DECISION TO	TEXT : JAPANESE

				GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20131009
JP5394466 B2	20131017	LSGT	+A01	特許査定書 Decision of patent grant	
JP5394466 B2	20131022	LSFE	R100	特許料納付書 Patent fee payment form	
JP5394466 B2	20131024	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20131016
JP5394466 B2	20131025	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP5394466 B2	20160509	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP5394466 B2	20161020	LSFE	R20	特許料納付書 Patent fee payment form	
JP5394466 B2	20161025	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5394466 B2	20170831	LSFE	R20	特許料納付書 Patent fee payment form	
JP5394466 B2	20170905	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5394466 B2	20311111	PEXP		Calculated Patent Term Expiry	
JP5468253 B2	20140409	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5468253 B2	20140116	LSGT	+A01	特許査定書 Decision of patent grant	
JP5468253 B2	20140204	LSFE	R100	特許料納付書 Patent fee payment form	
JP5468253 B2	20140207	LSGT	+R150	特許証 Patent certificate	
JP5468253 B2	20160509	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP5468253 B2	20170207	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP5468253 B2	20260519	PEXP		Calculated Patent Term Expiry	
JP5616396 B2	20141029	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5616396 B2	20130321	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20130319
JP5616396 B2	20130920	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130919
JP5616396 B2	20131121	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20131120
JP5616396 B2	20140221	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140220
JP5616396 B2	20140814	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP5616396 B2	20140819	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20140818
JP5616396 B2	20140821	LSGT	+A01	特許査定書 Decision of patent grant	
JP5616396 B2	20140916	LSFE	R100	特許料納付書 Patent fee payment form	
JP5616396 B2	20140918	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING	TEXT : JAPANESE INTERMEDIATE CODE: A61

				GRANT PROCEDURE)	EFFECTIVE DATE : 20140911
JP5616396 B2	20140919	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5616396 COUNTRY OF REF DOCUMENT : JP
JP5616396 B2	20160509	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP5616396 B2	20170622	LSFE	R20	特許料納付書 Patent fee payment form	
JP5616396 B2	20170627	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5616396 B2	20320612	PEXP		Calculated Patent Term Expiry	
JP5627749 B2	20141119	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5627749 B2	20140319	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140318
JP5627749 B2	20140617	LSER	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20140616
JP5627749 B2	20140813	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20140812
JP5627749 B2	20140827	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP5627749 B2	20140902	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20140901
JP5627749 B2	20140904	LSGT	+A01	特許査定書 Decision of patent grant	
JP5627749 B2	20141007	LSFE	R100	特許料納付書 Patent fee payment form	
JP5627749 B2	20141009	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20140930
JP5627749 B2	20141010	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5627749 COUNTRY OF REF DOCUMENT : JP
JP5627749 B2	20160509	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP5627749 B2	20170831	LSFE	R20	特許料納付書 Patent fee payment form	
JP5627749 B2	20170905	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5627749 B2	20330905	PEXP		Calculated Patent Term Expiry	
NO20075674 A	20080212	LSPB	+	published / reissued	
NO20075674 A	20160502	LSAS	CHAD	CHANGE OF THE OWNER'S NAME OR ADDRESS (PAR. 44 PATENT LAW, PAR. PATENTFORSKRIFTEN)	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S, DK
NO20081182 A	20080606	LSPB	+	published / reissued	
NO20081182 A	20160502	LSAS	CHAD	CHANGE OF THE OWNER'S NAME OR ADDRESS (PAR. 44 PATENT LAW, PAR. PATENTFORSKRIFTEN)	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S, DK
NO341122 B1	20170828	LSGT	+	granted / extensions (spc, cpc, pte)	
NO341122 B1	20280306	PEXP		Calculated Patent Term	

NO341148 B1	20170904	LSGT	+	Expiry granted / extensions (spc, cpc, pte)	
NO341148 B1	20271107	PEXP		Calculated Patent Term Expiry	
US2009007555 AA	20090108	LSPB	+	published / reissued	
US2009120874 AA	20090514	LSPB	+	published / reissued	
US7857978 BB	20101228	LSGT	+	granted / extensions (spc, cpc, pte)	
US7857978 BB	20080415	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S, DENMARK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JENSEN, PETER HOLME; KELLER, DANIELLE; NIELSEN, CLAUS HELIX; REEL/FRAME:020804/0627; SIGNING DATES FROM 20080218 TO 20080222
US7857978 BB	20080415	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S, DENMARK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:JENSEN, PETER HOLME; KELLER, DANIELLE; NIELSEN, CLAUS HELIX; SIGNING DATES FROM 20080218 TO 20080222; REEL/FRAME:020804/0627
US7857978 BB	20080825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AQUAPORIN APS, DENMARK OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNEE NAME PREVIOUSLY RECORDED ON REEL 020804 FRAME 0627; ASSIGNORS:JENSEN, PETER HOLME; KELLER, DANIELLE; NIELSON, CLAUS HELIX; REEL/FRAME:021435/0441; SIGNING DATES FROM 20080218 TO 20080222
US7857978 BB	20080825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AQUAPORIN APS, DENMARK OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNEE NAME PREVIOUSLY RECORDED ON REEL 020804 FRAME 0627. ASSIGNOR(S) HEREBY CONFIRMS THE ASSIGNMENT; ASSIGNORS:JENSEN, PETER HOLME; KELLER, DANIELLE; NIELSON, CLAUS HELIX; SIGNING DATES FROM 20080218 TO 20080222; REEL/FRAME:021435/0441
US7857978 BB	20101101	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S, DENMARK OLDPARTY : CHANGE OF NAME; ASSIGNOR:AQUAPORIN APS; REEL/FRAME:025224/0034 EFFECTIVE DATE : 20071121
US7857978 BB	20101208	LSGT	PAT1	Patented Case	
US7857978 BB	20140619	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7857978 BB	20170420	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S, DENMARK OLDPARTY : CHANGE OF ASSIGNEE ADDRESS; ASSIGNOR:AQUAPORIN A/S; REEL/FRAME:042295/0822 EFFECTIVE DATE : 20170420
US7857978 BB	20260519	PEXP		Calculated Patent Term Expiry	
US8123948 BB	20120228	LSGT	+	granted / extensions (spc, cpc, pte)	
US8123948 BB	20080828	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : AQUAPORIN APS, DENMARK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:JENSEN, PETER HOLME; REEL/FRAME:021454/0318 EFFECTIVE DATE : 20080821
US8123948 BB	20120124	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S, DENMARK OLDPARTY : CHANGE OF NAME; ASSIGNOR:AQUAPORIN APS; REEL/FRAME:027585/0928 EFFECTIVE DATE : 20080109
US8123948 BB	20120208	LSGT	PAT1	Patented Case	
US8123948 BB	20150821	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8123948 BB	20170420	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AQUAPORIN A/S, DENMARK OLDPARTY : CHANGE OF ASSIGNEE ADDRESS; ASSIGNOR:AQUAPORIN A/S; REEL/FRAME:042295/0822 EFFECTIVE DATE : 20170420
US8123948 BB	20260920	PEXP		Calculated Patent Term Expiry	
WO06122566 A2	20061123	LSPB	+	published / reissued	
WO06122566 A3	20071031	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006246841 COUNTRY OF REF DOCUMENT : AU
WO06122566 A3	20071105	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 187164 COUNTRY OF REF DOCUMENT : IL
WO06122566 A3	20071107	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2607371 COUNTRY OF REF DOCUMENT : CA
WO06122566 A3	20071119	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200680017301.9 COUNTRY OF REF DOCUMENT : CN
WO06122566 A3	20071119	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008511564 COUNTRY OF REF DOCUMENT : JP
WO06122566 A3	20071121	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06122566 A3	20071121	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO06122566 A3	20071123	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006722955 COUNTRY OF REF DOCUMENT : EP
WO06122566 A3	20071129	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2006246841 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20060519 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO06122566 A3	20071129	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2006246841 COUNTRY OF REF DOCUMENT : AU
WO06122566 A3	20071220	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : RU
WO06122566 A3	20071220	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : RU

WO06122566 A3	20080213	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2006722955 COUNTRY OF REF DOCUMENT : EP
WO06122566 A3	20080512	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11915121 COUNTRY OF REF DOCUMENT : US
WO07033675 A1	20070329	LSPB	+	published / reissued	
WO07033675 A1	20080306	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006791419 COUNTRY OF REF DOCUMENT : EP
WO07033675 A1	20080310	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006294205 COUNTRY OF REF DOCUMENT : AU
WO07033675 A1	20080310	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2621807 COUNTRY OF REF DOCUMENT : CA
WO07033675 A1	20080311	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 190074 COUNTRY OF REF DOCUMENT : IL
WO07033675 A1	20080319	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008531533 COUNTRY OF REF DOCUMENT : JP
WO07033675 A1	20080320	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200680034784.3 COUNTRY OF REF DOCUMENT : CN
WO07033675 A1	20080321	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO07033675 A1	20080403	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2006294205 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20060920 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO07033675 A1	20080403	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2006294205 COUNTRY OF REF DOCUMENT : AU
WO07033675 A1	20080702	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2006791419 COUNTRY OF REF DOCUMENT : EP
WO07033675 A1	20080910	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12067448 COUNTRY OF REF DOCUMENT : US

Title: OPTICAL COATING COMPRISING POROUS SILICA NANOPARTICLES

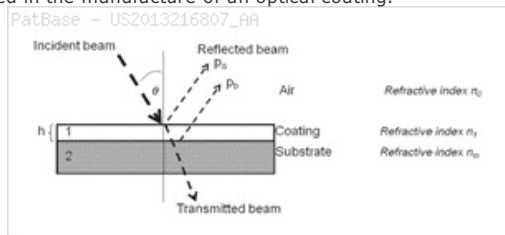
Abstract: Source: US2013216807A An optical coating comprising a binder and a plurality of porous silica nanoparticles in which the pores are randomly oriented, a solution for forming an optical coating comprising a solvent and a plurality of porous silica nanoparticles in which the pores are randomly oriented, a method for fabricating an optical coating, and the use of porous silica nanoparticles in which the pores are randomly oriented in the manufacture of an optical coating.

Classifications:

International (IPC 8-9): B32B7/02 C09D183/02 C09D183/06 C09D201/00 C09D7/12 G02B1/10 G02B1/11 (Advanced/Invention)
CPC: G02B1/111 G02B1/113 G02B2207/107 Y10T428/24942 Y10T428/24992 Y10T428/249974

European: G02B1/11 G02B1/11D S02B207/107

US: 106/287.16 427/162 428/212 428/218 428/313.9 523/466

**Family:**

Publication number	Publication date	Application number	Application date
■ CN103097918 A	20130508	CN201180039540	20110819
■ EP2606388 A1	20130626	EP20110748979	20110819
■ GB201014024 A0	20101006	GB20100014024	20100820
■ IN02405DN2013 A	20160415	IN2013DN02405	20130319
■ JP2013539550 T2	20131024	JP20130524482T	20110819
■ KR20130092565 A	20130820	KR20137004390	20110819
■ RU2013112006 A	20140927	RU20130112006	20110819
■ TW201310055 A	20130301	TW20120128788	20120809
■ US2013216807 AA	20130822	US20110817268	20110819
■ WO12022983 A1	20120223	WO2011GB51565	20110819

Priority:

GB20100014024 20100820 WO2011GB51565 20110819

Probable Assignee: OXFORD ENERGY TECHNOLOGIES LTD

Assignee(s): (std): GARDENER MARTIN ; OSTROWSKI SASHA ; OXFORD ENERGY TECHNOLOGIES LTD ; WAKEFIELD GARETH

Assignee(s): OXFORD ENERGY TECHNOLOGIES LIMITED

Inventor(s): (std): GARDENER MARTIN ; OSTROWSKI SASHA ; WAKEFIELD GARETH

Agent(s): ANDREWS PAUL DAVID; MURGITROYD AND COMPANY

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 QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN103097918 A	20130508	LSPB	+	published / reissued	
CN103097918 A	20130508	LSPB	+C06	PUBLICATION	
CN103097918 A	20150527	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
EP2606388 A1	20130626	LSPB	+	published / reissued	
EP2606388 A1	20130626	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20130117
EP2606388 A1	20140514	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20140409
EP2606388 A1	20150121	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20140820
GB201014024 A0	20120418	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
IN02405DN2013 A	20160415	LSPB	+	published / reissued	

JP2013539550 T2	20131024	LSPB	+	published / reissued	
JP2013539550 T2	20141104	LSWD	-A300	WITHDRAWAL OF APPLICATION BECAUSE OF NO REQUEST FOR EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A300 EFFECTIVE DATE : 20141104
KR20130092565 A	20130820	LSPB	+	published / reissued	
KR20130092565 A	20160920	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	
RU2013112006 A	20140927	LSPB	+	published / reissued	
TW201310055 A	20130301	LSPB	+	published / reissued	
US2013216807 AA	20130822	LSPB	+	published / reissued	
US2013216807 AA	20130425	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : OXFORD ENERGY TECHNOLOGIES LIMITED, UNITED KINGDOM OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WAKEFIELD, GARETH; GARDENER, MARTIN; OSTROWSKI, SASHA; REEL/FRAME:030284/0365 EFFECTIVE DATE : 20130204
US2013216807 AA	20150922	LSES	NFA1	Non Final Action Mailed	
US2013216807 AA	20160415	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO12022983 A1	20120223	LSPB	+	published / reissued	
WO12022983 A1	20130118	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2013524482 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO12022983 A1	20130220	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO12022983 A1	20130221	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20137004390 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO12022983 A1	20130320	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2013112006 COUNTRY OF REF DOCUMENT : RU KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO12022983 A1	20130423	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13817268 COUNTRY OF REF DOCUMENT : US

Title: DURABLE ANTI-REFLECTION COATINGS

Abstract: Source: US2012019915A An article comprising a substrate and an anti-reflection coating, and methods for depositing the coating, are disclosed. The coating comprises (a) a first coating layer having a high refractive index deposited on the substrate; (b) an epoxide-silica coating layer deposited onto the high refractive index coating layer, comprising an inorganic silica component and an organic organo-silicate component, and (c) a silica coating layer consisting essentially of silica, deposited directly onto the epoxide-silica coating layer. The anti-reflection coating optionally comprises a stack of coating layers, between the first high refractive index coating layer and the epoxide-silica coating layer, having alternating a low refractive index and a high refractive index. Individual coating layer compositions, refractive indexes, and thicknesses are carefully controlled such that reflectance is minimized through destructive interference in the visible light wavelength range of 400 to 700 nm. The resulting deposited coating provides excellent mechanical, chemical, and environmental durability.

Classifications:

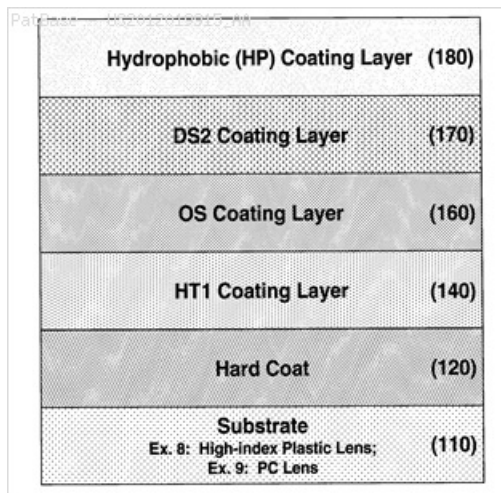
International (IPC 8-9): B05D5/06 B32B18/00 B32B25/20 B32B37/00 G02B1/10 G02B1/11 G02B5/28 (Advanced/Invention)

CPC: G02B1/111 B32B33/00 B32B2307/40 B32B2307/418 C03C17/42 C03C2217/73 C03C2217/76 C08J7/045

European: B32B33/00 C03C17/42 C08J7/04D1 G02B1/11B

L32B307/400 L32B307/418 M03C217/730 M03C217/760

US: 359/580 359/580S 359/581 359/582 359/586 359/586P 359/589 427/164 427/164S 427/165 427/165S

**Family:**

Publication number	Publication date	Application number	Application date
US2012019915 AA	20120126	US20110247334	20110928
US8358467 BB	20130122	US20110247334	20110928
WO11044519 A2	20110414	WO2010US52080	20101008
WO11044519 A3	20110818	WO2010US52080	20101008

Priority:

US20090250206P 20091009 US20110247334 20110928 WO2010US52080 20101008

Probable Assignee: YAZAKI CORP

Assignee(s): (std): KAYGEE ANAND ; RAYCHAUDHURI SATYABRATA ; YAN YONGAN ; YAZAKI CORP

Inventor(s): (std): KAYGEE ANAND ; RAYCHAUDHURI SATYABRATA ; YAN YONGAN

Agent(s): PERKINS COIE LLP; VIOLA T; KUNG VIOLA T

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 LR LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2012019915 AA	20120126	LSPB	+	published / reissued	
US2012019915 AA	20121129	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : YAZAKI CORPORATION, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:YAN, YONGAN; KAYGEE, ANAND; RAYCHAUDHURI, SATYABRATA; REEL/FRAME:029377/0573 EFFECTIVE DATE : 20121129
US8358467 BB	20130122	LSGT	+	granted / extensions (spc, cpc, pte)	
US8358467 BB	20121229	LSGT	PAT1	Patented Case	
US8358467 BB	20160715	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8358467 BB	20310928	PEXP		Calculated Patent Term Expiry	

WO11044519 A2	20110414	LSPB	+	published / reissued	
WO11044519 A3	20120410	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO11044519 A3	20121031	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 10822799 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :

Title: OPTICAL ARTICLE COMPRISING A TEMPORARY ANTI-FOGGING COATING WITH IMPROVED DURABILITY

Abstract: Source: US2012019767A The present invention relates to an optical article comprising a substrate provided with a coating comprising silanol groups on the surface thereof and, directly contacting this coating, an anti-fog coating precursor coating, said precursor coating having a static contact angle with water of more than 10 degrees and of less than 50 degrees, a thickness lower than or equal to 5 nm, and being obtained through the grafting of at least one organosilane compound having a polyoxyalkylene group comprising less than 80 carbon atoms and at least one silicon atom bearing at least one hydrolyzable group. The anti-fog coating precursor is converted into an actual anti-fog coating by applying on the surface thereof a film of a liquid solution comprising at least one surfactant. The anti-fog coating is immediately operational and provides long-lasting effects.

Classifications:

International (IPC 8-9): B05D5/06 B32B37/00 C03C17/30 G02B1/10 G02B1/11 G02B1/111 G02B1/18 G02B27/00 G02C11/08 G02C7/00 G02C7/02 (Advanced/Invention);

C03C17/30 (Advanced/Non-invention);

C03C17/30 (Core/Invention)

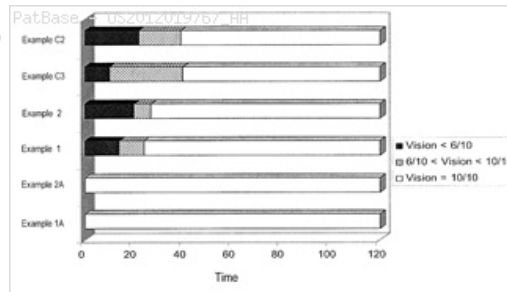
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European: C03C17/30 G02B1/10B G02C7/02 M03C217/750

M03C218/310

US: 351/62 351/62P 427/164 427/164S 428/304.4



Family:

Publication number	Publication date	Application number	Application date
AU2010338060 AA	20110707	AU20100338060	20101222
AU2010338060 BB	20150122	AU20100338060	20101222
CA2785908 AA	20120628	CA20102785908	20101222
CN102686527 A	20120919	CN201080060032	20101222
CN102686527 B	20150805	CN201080060032	20101222
DE602010023649 D1	20150513	DE201060023649T	20101222
EA022678 B1	20160229	EA20120000976	20101222
EA201200976 A1	20121228	EA20120000976	20101222
EP2519474 A2	20121107	EP20100808928	20101222
EP2519474 B1	20150401	EP20100808928	20101222
ES2539711 T3	20150703	ES20100808928T	20101222
FR2954832 A1	20110701	FR20090059685	20091231
FR2954833 A1	20110701	FR20100053269	20100428
FR2954833 B1	20130322	FR20100053269	20100428
IN05119DN2012 A	20151023	IN2012DN05119	20120611
JP2013516638 T2	20130513	JP20120546491T	20101222
JP5965321 B2	20160803	JP20120546491T	20101222
KR101764280 B1	20170803	KR20127013832	20101222
KR20120107084 A	20120928	KR20127013832	20101222
PT2519474 T	20150721	PT20100808928T	20101222
TH127241 A	20130920	TH20121003271	20101222
US2012019767 AA	20120126	US20100260697	20101222
US8709588 BB	20140429	US20100260697	20101222
WO11080472 A2	20110707	WO2010FR52895	20101222
WO11080472 A3	20110825	WO2010FR52895	20101222

Priority:

EP20100808928 20101222 FR20090059685 20091231 FR20100053269 20100428
WO2010FR52895 20101222

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): CADET MAMONJY ; ESSILOR INT ; HENKY FRANCIS ; FEUILLADE MATHIEU ; SATISLOH AG

Assignee(s): ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE) ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE

Inventor(s): (std): CADET MAMONJY ; FEUILLADE MATHIEU ; FRANCIS HENKY ; HENKY FRANCIS ; MAMONJY CADET ; MATHIEU FEUILLADE

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; CORALIS HARLE; LEHMANN MARIA ISABEL; CABINET HARLE ET PHELIP; FULBRIGHT AND JAWORSKI LLP; CATHERINE ALAIN ET AL

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2010338060 AA	20110707	LSPB	+	published / reissued	
AU2010338060 AA	20131121	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : SATISLOH AG OLDPARTY : FORMER

APPLICANT(S): ESSLOR INTERNATIONAL (COMPAGNIE GENERALE D'OPTIQUE)					
AU2010338060 BB	20150122	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2010338060 BB	20150521	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2010338060 BB	20301222	PEXP		Calculated Patent Term Expiry	
CA2785908 AA	20120628	LSPB	+	published / reissued	
CA2785908 AA	20151221	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20151215
CN102686527 A	20120919	LSPB	+	published / reissued	
CN102686527 A	20120919	LSPB	+C06	PUBLICATION	
CN102686527 A	20131113	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SATISLOH AG OLDPARTY : FORMER OWNER: ESSILOR INTERNATIONAL EFFECTIVE DATE : 20131024
CN102686527 A	20131113	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN102686527 B	20150805	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102686527 B	20150805	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN102686527 B	20301222	PEXP		Calculated Patent Term Expiry	
EA022678 B1	20160229	LSGT	+	granted / extensions (spc, cpc, pte)	
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GRANT					
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				PROPERTY	OWNER : SATISLOH AG, CH EFFECTIVE DATE : 20130220
FR2954833 A1	20160425	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 7
FR2954833 A1	20170426	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
FR2954833 B1	20130322	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2954833 B1	20300428	PEXP		Calculated Patent Term Expiry	
IN05119DN2012 A	20151023	LSPB	+	published / reissued	
JP2013516638 T2	20130513	LSPB	+	published / reissued	
JP2013516638 T2	20130726	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A711 EFFECTIVE DATE : 20130725
JP2013516638 T2	20130813	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20130725
JP2013516638 T2	20131221	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20131220
JP2013516638 T2	20141022	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20141021
JP2013516638 T2	20150421	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20150421
JP2013516638 T2	20150930	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20150929
JP2013516638 T2	20151222	LSRE	A524	WRITTEN SUBMISSION OF COPY OF AMENDMENT UNDER SECTION 19 (PCT)	TEXT : JAPANESE INTERMEDIATE CODE: A524 EFFECTIVE DATE : 20151222
JP2013516638 T2	20160210	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20160209
JP2013516638 T2	20160420	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20160420
JP2013516638 T2	20160527	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2013516638 T2	20160607	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20160607
JP2013516638 T2	20160707	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20160701
JP2013516638 T2	20160708	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5965321 COUNTRY OF REF DOCUMENT : JP
JP5965321 B2	20160803	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5965321 B2	20301222	PEXP		Calculated Patent Term Expiry	
KR101764280 B1	20170803	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101764280 B1	20130718	LSAS	N231	NOTIFICATION OF CHANGE OF APPLICANT	
KR101764280 B1	20151201	LSSES	A201	REQUEST FOR EXAMINATION	
KR101764280 B1	20161117	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	

KR101764280 B1	20170501	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101764280 B1	20301222	PEXP		Calculated Patent Term Expiry	
KR20120107084 A	20120928	LSPB	+	published / reissued	
KR20120107084 A	20151201	LSES	A201	REQUEST FOR EXAMINATION	
KR20120107084 A	20161117	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20120107084 A	20170501	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
PT2519474 T	20150721	LSGT	+	granted / extensions (spc, cpc, pte)	
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TH127241 A	20130920	LSPB	+	published / reissued	
US2012019767 AA	20120126	LSPB	+	published / reissued	
US2012019767 AA	20130118	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SATISLOH AG, SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ESSILOR INTERNATIONAL (COMPAGNIE GENERALE D'OPTIQUE); REEL/FRAME:029658/0140 EFFECTIVE DATE : 20121228
US8709588 BB	20140429	LSGT	+	granted / extensions (spc, cpc, pte)	
US8709588 BB	20111206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ESSILOR INTERNATIONAL (COMPAGNIE GENERALE D'OPTIQUE) OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CADET, MAMONJY; FEUILLADE, MATHIEU; HENKY, FRANCIS; SIGNING DATES FROM 20111107 TO 20111108; REEL/FRAME:027340/0758
US8709588 BB	20140409	LSGT	PAT1	Patented Case	
US8709588 BB	20141118	LSRE	CC	CERTIFICATE OF CORRECTION	
US8709588 BB	20171030	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8709588 BB	20311105	PEXP		Calculated Patent Term Expiry (PTA 318 days)	
WO11080472 A2	20110707	LSPB	+	published / reissued	
WO11080472 A3	20110927	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13260697 COUNTRY OF REF DOCUMENT : US
WO11080472 A3	20120529	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20127013832 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO11080472 A3	20120619	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010338060 COUNTRY OF REF DOCUMENT : AU
WO11080472 A3	20120628	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2785908 COUNTRY OF REF DOCUMENT : CA
WO11080472 A3	20120628	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2012546491 COUNTRY OF REF DOCUMENT : JP
WO11080472 A3	20120630	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO	REF DOCUMENT NUMBER : 1201003271

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WO11080472 A3	20120702	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO11080472 A3	20120712	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2010338060 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20101222 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :