

Search query (3): [SP]: 1. a method of providing a security document with a security feature, including the following steps: providing a conductive layer, removing part of said conductive layer to convert at least a portion of said conductive layer into a metamaterial selected to provide for authentication of the security document, and wherein said step of removing part of said conductive layer further includes the step of leaving parts of said conductive layer separated from other parts of said conductive layer, or removing said part of said conductive layer so as to form through holes in said conductive layer. 2. the method according to claim 1, wherein said part of said conductive layer is removed using laser light. 3. the method according to claim 1, wherein said part of said conductive layer is removed mechanically. 4. the method according to claim 1, wherein said part of said conductive layer is removed chemically. 5. the method according to claim 1, wherein said conductive layer is applied to a security element substrate, and wherein said security element substrate is thereafter embedded in a security document substrate. 6. the method according to claim 5, wherein said part of said conductive layer is removed after said security element substrate has been embedded in said security document substrate. 7. the method according to claim 5, wherein said part of said conductive layer is removed before said security element substrate is embedded in said security document substrate. 8. the method according to claim 5, wherein said security element substrate comprises a strip or a patch of paper, cellophane, polyester, propylene, or polycarbonate. 9. the method according to claim 1, wherein said conductive layer is applied onto a security document substrate, whereafter said part of said conductive layer is removed. 10. the method according to claim 5, wherein said security document substrate is a paper substrate. 11. the method according to claim 1, wherein said part of said conductive layer is removed so as to leave parts of said conductive layer separated from other parts of said conductive layer, forming a regular pattern. 12. the method according to claim 1, wherein said part of said conductive layer is removed so as to form a plurality of openings in said conductive layer, said plurality of openings forming a regular pattern. 13. the method according to claim 11, wherein said regular pattern corresponds to a matrix having a cell size larger than 0.05 mm but smaller than 2 mm. 14. the method according to claim 1, wherein said metamaterial is arranged to provide authentication by a response to radiation in the thz range from 25 ghz to 100 thz. 15. a security document obtained or obtainable with a method according to claim 1. 16. a security document, comprising a document substrate, said document substrate being a paper substrate, said security document further comprising a security element embedded in said document substrate, said security element comprising an element substrate, wherein said element substrate is provided with a portion of conductive material forming a metamaterial arranged to provide for authentication of the security document and wherein said element substrate is a substrate in the form of a cellulose strip or patch, such as a paper or cellophane strip or patch. 17. (canceled) 18. the method of authentication of a security document obtained or obtainable with a method according to claim 1, comprising the steps of subjecting the security document to radiation in the thz range in the range from 25 ghz to 100 thz, and detecting and analysing a response of the security document to said radiation.

Results: 24

Search history

Search PN=(WO2014206977) (Results 1)

1:

Search [SP]: technical field [0001] the present disclosure is related to the field of security documents. background [0002] security documents, including value documents such as banknotes and cheques, and identity documents such as passports and identity cards, are frequently subjected to fraud. in order to increase security and to make forgery more difficult, security documents are frequently provided with so-called security elements, applied onto or inserted into said security documents. the security elements can, for example, provide controlled responses to external stimuli, and/or provide certain visual effects, thereby allowing for the verification of the authenticity of the document into which they have been incorporated.[0003] the configuration, design and composition of a security element is often intended to remain unaltered once it has been incorporated into the security document, for example, applied to or inserted into a substrate of the security document, such as a paper substrate of the security document. generally, the security element is intended to maintain its properties until the end of the life cycle of the security document, although sometimes alterations may occur due to, for example, wear and tear caused by the use of the document.[0004] security elements can be in the form of, for example, security threads or strips, luminescent fibres, iridescent strips or planchettes, holographic tags, patches or strips, solid microparticles, reactive chemical agents or printed security inks. it is known to place this kind of elements inside the paper substrate of a document or within the pulp from which the substrate is produced (this is often the case with security threads, strips, fibres, microparticles or reactive chemical agents) or on the surface of the substrate (this is often the case with patches, holographic strips, reactive chemical agents or printed strips). it is known to place security elements at specific positions of a substrate and/or in register with other security features of a substrate (this is frequently the case with security threads and strips, holographic strips, and printed inks), but security elements can also be distributed randomly on or in the substrate (this is often the case with fibres, solid microparticles, and reactive chemical agents). [0005] the incorporation of the security elements into the security document contributes to making forgery more difficult in at least two different ways, namely: due to the difficulty of manufacturing the security elements due to the difficulty of incorporating the element into the substrate (especially if placed in register with other features). the level of difficulty can be further enhanced if several security elements are incorporated in the same security document, and especially if they are placed very close to each other.[0006] the position in register or the precise positioning of each security element in a substrate makes it possible to incorporate a relatively large amount of security elements in the substrate. on the contrary, when there are substantial tolerances in the positioning of a security element in a substrate, it may be necessary to increase the space between security elements so as to reduce the risk of non-desired interaction or overlapping between security elements this implies a restriction on the amount of security elements that can be incorporated into and/or onto the substrate of the security document.[0007] a large number of prior art references teach different aspects related to the incorporation of security threads or ribbons into paper substrates.[0008] for example, gb-1095286-a discloses the use of thin security ribbons which are incorporated into a security paper. said ribbons contain, before their incorporation into the paper, different graphical designs in the form of characters or symbols which can also be visually detected, through the use of lenses or microscopes, once incorporated into the paper.[0009] wo-2004/050991-a1 discloses a method for manufacturing a security paper in which a security thread is partially embedded in such a way that there are areas of the said security thread which remain exposed. the holographic or metalized graphical motifs can thus be seen with the naked eye, in the same way in which they could be seen on the thread before it was inserted into the paper substrate. in addition, it is described that this thread will be positioned at a specific distance from (that is, in register with) a watermark, in order to facilitate the control of the position.[0010] one problem frequently involved with the use of security threads is that the substrate is deformed by the security thread, as the presence of the security thread in the substrate increases the thickness of the substrate locally, as the thickness of the security thread is added to the thickness of the paper as such. this is the reason for why, in bank notes, the position of the security thread often varies between different individual bank notes of the same kind: frequently, the position of the security thread in the bank note, in the cross direction (that is, the direction perpendicular to the machine direction, which corresponds to the axial direction of the security thread), can vary several mm if different banknotes are compared. this prevents the increased thickness of the individual banknotes at the location of the security thread to accumulate and produce an excessive bulging of a stack of banknotes comprising a large number of superposed banknotes of the same kind.[0011] however, this implies a difficulty when a certain security feature of a security thread, such as an image, symbol, marking, or other characteristic of the security thread, or the security thread itself, is to be placed in register with a security feature which forms part of the substrate of the document, such as an image, symbol or other mark printed on a paper substrate. for example, if an image printed on a security thread is to be placed in register with an image printed on a substrate into which the thread is to be inserted, this may be difficult or impossible if the position of the security thread is not the same in all substrates, such as, for example, in the paper substrates of a plurality of bank notes.[0012] also, when substrates for security documents are produced by cutting from a sheet or bobbin of the substrate material already containing the security thread (such as a sheet or web of paper or other cellulose based material), tolerances in the cutting process may affect the position of the security thread within the individual substrate, for example, in relation to the edge of the substrate. that is, if comparing a plurality of cut substrates, the security thread may not always be in the same position in relation to an edge or side of the substrate, for example, in the case of bank notes, typically in relation to one of the shorter sides, which often are parallel with the security thread.[0013] sometimes, an intended variation in the position of the security thread (for example, as in the case of banknotes, for the purpose of preventing all of the security threads from being exactly superimposed on top of each other when stacking banknotes, so as to prevent the stack from bulging excessively) can add up with a variation due to tolerances in the processes of insertion of the security threads into the substrates and/or cutting of the substrates, thereby giving rise to a substantial variability of the position of the security thread in relation to a reference point of a substrate, such as an edge of the substrate.[0014] that is, to prevent the locally increased thickness of the substrate to accumulate excessively when many substrates are placed on top of each other, and in order to avoid the risk for "non-valid" substrates due to the tolerances in the insertion of the threads and/or cutting of the substrates from a large sheet or band, it is known to vary the position of the security thread in a controlled way within a predetermined interval, so that if comparing a number of substrates, the thread will not always be in the same position within the document (for example, in relation to an edge or side of the substrate or security document): the thread will be placed in a position that can vary within a given range, for example, with +/- a few millimeters from a reference position. however, this varying position of the thread may raise doubts with regard to the validity or authenticity of the document, for example, when a layman examines two banknotes and observes that the security threads are not placed in the same position.[0015] also, as indicated above, a further problem involved with a lack of register between a security element and a substrate is that it restricts the possibility of adding further security elements,

due to the risk of interference between different security elements when they are very near each other or when they overlap each other.[0016] ep-1872965-a1 teaches a security thread, strip or band comprising a cellulose support which can act as a carrier for security elements such as pigments, synthetic elements and/or security fibers, and which can be inserted into a paper substrate, whereby the cellulose substrate of the security strip can be completely integrated in the paper pulp, although without disappearing as an independent element. the fact that both the substrate of the security strip as the paper substrate into which it is integrated, that is, the substrate of the security document, to a substantial extent are made up of cellulose fibres, facilitates the integration between the substrate of the security document (hereinafter also referred to as the "document substrate") and the substrate of the security element (hereinafter also referred to as the "document substrate"). (Results 36)

Search [SP]: 1. a method of providing a security document with a security feature, including the following steps: providing a conductive layer, removing
3: part of said conductive layer to convert at least a portion of said conductive layer into a metamaterial selected to provide for authentication of the security document, and wherein said step of removing part of said conductive layer further includes the step of leaving parts of said conductive layer separated from other parts of said conductive layer, or removing said part of said conductive layer so as to form through holes in said conductive layer. 2. the method according to claim 1, wherein said part of said conductive layer is removed using laser light. 3. the method according to claim 1, wherein said part of said conductive layer is removed mechanically. 4. the method according to claim 1, wherein said part of said conductive layer is removed chemically. 5. the method according to claim 1, wherein said conductive layer is applied to a security element substrate, and wherein said security element substrate is thereafter embedded in a security document substrate. 6. the method according to claim 5, wherein said part of said conductive layer is removed after said security element substrate has been embedded in said security document substrate. 7. the method according to claim 5, wherein said part of said conductive layer is removed before said security element substrate is embedded in said security document substrate. 8. the method according to claim 5, wherein said security element substrate comprises a strip or a patch of paper, cellophane, polyester, propylene, or polycarbonate. 9. the method according to claim 1, wherein said conductive layer is applied onto a security document substrate, whereafter said part of said conductive layer is removed. 10. the method according to claim 5, wherein said security document substrate is a paper substrate. 11. the method according to claim 1, wherein said part of said conductive layer is removed so as to leave parts of said conductive layer separated from other parts of said conductive layer, forming a regular pattern. 12. the method according to claim 1, wherein said part of said conductive layer is removed so as to form a plurality of openings in said conductive layer, said plurality of openings forming a regular pattern. 13. the method according to claim 11, wherein said regular pattern corresponds to a matrix having a cell size larger than 0.05 mm but smaller than 2 mm. 14. the method according to claim 1, wherein said metamaterial is arranged to provide authentication by a response to radiation in the thz range from 25 ghz to 100 thz. 15. a security document obtained or obtainable with a method according to claim 1. 16. a security document, comprising a document substrate, said document substrate being a paper substrate, said security document further comprising a security element embedded in said document substrate, said security element comprising an element substrate, wherein said element substrate is provided with a portion of conductive material forming a metamaterial arranged to provide for authentication of the security document and wherein said element substrate is a substrate in the form of a cellulose strip or patch, such as a paper or cellophane strip or patch. 17. (canceled) 18. the method of authentication of a security document obtained or obtainable with a method according to claim 1, comprising the steps of subjecting the security document to radiation in the thz range in the range from 25 ghz to 100 thz, and detecting and analysing a response of the security document to said radiation. (Results 24)

Title: METHOD OF PROVIDING A SECURITY DOCUMENT WITH A SECURITY FEATURE, AND SECURITY DOCUMENT

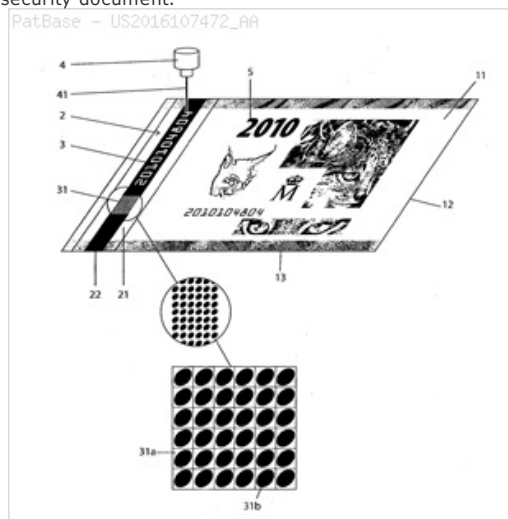
Abstract: Source: US2016107472A A method of providing a security document with a security feature includes the steps of providing a conductive layer, and removing part of the conductive layer to convert at least a portion of the conductive layer into a metamaterial. The metamaterial is selected to provide for authentication of the security document. It is possible to obtain a security document with this method and to subsequently authenticate the security document.

Classifications:

International (IPC 8-9): B41M3/14 B42D15/00 B42D25/00 B42D25/337 B42D25/346 B42D25/351 B42D25/36 B42D25/373 B42D25/378 B42D25/435 B42D25/44 B42D25/445 B42D25/45 D21H21/44 G07D7/00 G07D7/005 G07D7/12 (Advanced/Invention); B42D (Subclass/Invention)

CPC: B42D25/00 B42D25/346 B42D25/44 B42D25/445 B42D2033/22 B42D25/36 B42D25/373 B42D25/378 G07D7/0006 B42D25/351 B42D25/45 G07D7/124 B42D25/435 B41M3/14 B41M5/24

US: 216/13 250/341.1 283/94 427/7



Family:

Publication number	Publication date	Application number	Application date
CN105431301 A	20160323	CN201480031506	20140624
EP2991839 A1	20160309	EP20140738426	20140624
EP3028869 A1	20160608	EP20150200080	20140624
HK1215558 A1	20160902	HK20160103562	20160329
IN10972DN2015 A	20160520	IN2015DN10972	20151201
JP2016536162 T2	20161124	JP20160522441T	20140624
KR20160028413 A	20160311	KR20157033794	20140624
MA38641 A1	20160930	MA20150038641	20151201
MX2015016523 A1	20160616	MX20150016523	20140624
PH2015502680 A	20160307	PH20150502680	20151201
US2016107472 AA	20160421	US20140895205	20140624
WO14206977 A1	20141231	WO2014EP63267	20140624

Priority:

EP20130382249 20130626 EP20140738426 20140624 WO2014EP63267 20140624
EP20150200080 20140624

Probable Assignee: NACIONAL DE MONEDA Y TIMBRE REAL CASA DE LA MONEDA FAB

Assignee(s): (std): NAC DE MONEDA Y TIMBRE REAL CASA DE LA MONEDA FAB ; FBRICA NAC DE MONEDA Y TIMBRE REAL CASA DE ; FAB NAC MONEDA Y TIMBRE ES

Assignee(s): NACIONAL DE MONEDA Y TIMBRE REAL CASA DE LA MONEDA FAB ; F BRICA NACIONAL DE MONEDA Y TIMBRE REAL CASA DE LA MONEDA ; FBRICA NACIONAL DE MONEDA Y TIMBRE REAL CASA DE ; NACIONAL DE MONEDA Y TIMBRE REAL CASA DELA MONEDA FAB

Inventor(s): (std): VICENTE GARCIA JUEZ ; LUIS BORRUEL NAVARRO ; JAVIER GAMO ARANDA ; GARCIA JUEZ VICENTE ; GARCA JUEZ VICENTE ; GAMO ARANDA JAVIER ; BORRUEL NAVARRO LUIS ; NAVARRO LUIS BORRUEL ; JUEZ VICENTE GARCIA ; ARANDA JAVIER GAMO

Agent(s): BALDER IP LAW SL; NISHIJIMA TAKAKI; OHTSUKA FUMIAKI; KOSHISHIBA ERI; SUDA HIROYUKI; KONDO NAOKI; UESUGI HIROSHI; DESHIMARU TAKESHI; STIEBE LARS MAGNUS ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI 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
CN105431301 A	20160323	LSPB	+	published / reissued	
CN105431301 A	20160323	LSPB	+C06	PUBLICATION	
EP2991839 A1	20160309	LSPB	+	published / reissued	

EP2991839 A1	20160309	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20151201
EP3028869 A1	20160608	LSPB	+	published / reissued	
EP3028869 A1	20161228	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20161117
HK1215558 A1	20160902	LSGT	+	granted / extensions (spc, cpc, pte)	
IN10972DN2015 A	20160520	LSPB	+	published / reissued	
JP2016536162 T2	20161124	LSPB	+	published / reissued	
KR20160028413 A	20160311	LSPB	+	published / reissued	
MA38641 A1	20160930	LSPB	+	published / reissued	
MX2015016523 A1	20160616	LSPB	+	published / reissued	
PH2015502680 A	20160307	LSPB	+	published / reissued	
US2016107472 AA	20160421	LSPB	+	published / reissued	
US2016107472 AA	20160114	LSAS	AS	ASSIGNMENT	OWNER NAME : FABRICA NACIONAL DE MONEDA Y TIMBRE - REAL CASA DE DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GARCIA JUEZ, VICENTE; GAMO ARANDA, JAVIER; BORRUEL NAVARRO, LUIS; SIGNING DATES FROM 20151117 TO 20151129; REEL/FRA:037490/0680
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WO14206977 A1	20151201	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2016522441 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A
WO14206977 A1	20151201	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14895205 COUNTRY OF REF DOCUMENT : US

Title: DOCUMENT AND METHOD AGAINST COUNTERFEITING AND FORGERY OF THE SAME

Abstract: Source: US2004232691A A method for customising security documents, particularly banknote, checks and documents representing a value in general. The method is suitable to prevent their forgery and alteration and comprises the steps that consist in superimposing at least two materials (10, 20) having different resistances to laser and being arranged adjacent to each other onto a substrate (30) having a higher resistance to laser than each of the superimposed materials (10, 20) and treating said superimposed materials (10, 20) with a laser beam which is guided along a preset path in order to modify by sublimation a part of each superimposed material (10, 20) by subjecting it to said laser beam without substantially burning or sublimating said substrate (30).

Classifications:

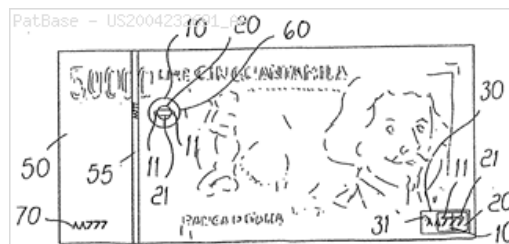
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International (IPC 1-7): B23K26/00 B24D15/10 B41M3/14 B41M5/26 B42D15/00 B42D15/10 G03H1/18 G07D1/00 G07D7/12 G07F7/08

CPC: B42D25/29 G07D7/0006 B41M3/14 G07F7/086

European: B41M3/14 B42D15/00C G07D7/00B G07F7/08B

US: 283/67 283/67P



Family:

Publication number	Publication date	Application number	Application date
AT242903 E	20030615	AT20010124814T	20011017
AU2002333300 AA	20030324	AU20020333300	20020801
AU2002333300 BB	20070927	AU20020333300	20020801
BRPI0212459 A	20041019	BR2002PI12459	20020801
CA2460082 AA	20040309	CA20022460082	20020801
CA2460082 C	20120403	CA20022460082	20020801
CN1285060 C	20061115	CN20028021359	20020801
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DE60100362 D1	20030717	DE20016000362	20011017
DE60100362 T2	20040219	DE20016000362T	20011017
DK1291827 T3	20030714	DK20010124814T	20011017
EP1291827 A1	20030312	EP20010124814	20011017
EP1291827 B1	20030611	EP20010124814	20011017
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IN00922DN2004 A	20100423	IN2004DN00922	20040408
IN249573 B	20111104	IN2004DN00922	20040408
ITMI20011889 A0	20010910	IT2001MI01889	20010910
ITMI20011889 A1	20030310	IT2001MI01889	20010910
JP2005508263 T2	20050331	JP20030527692T	20020801
JP4310188 B2	20090805	JP20030527692T	20020801
KR100949127 B1	20100325	KR20047003574	20020801
KR20050016280 A	20050221	KR20047003574	20020801
NO20041071 A	20040416	NO20040001071	20040312
NO325388 B1	20080421	NO20040001071	20040312
PT1291827 T	20030930	PT20010124814T	20011017
RU2004110050 A	20050920	RU20040110050	20020801
RU2294016 C2	20070220	RU20040110050	20020801
US2004232691 AA	20041125	US20040489149	20040520
WO03023723 A1	20030320	WO2002EP08592	20020801

Priority:

EP20010124814 20011017 IT2001MI01889 20010910 WO2002EP08592 20020801
IT2001MI01889 20010910 WO2002EP08592 20040310

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Assignee(s): MANTEGAZZA ANTONIO ARTI GRAFICHE S R L ; FEDRIGONI SPA ; MANTEGAZZA ANTONIO ARTI GRAFICHE SRL ; MANTEGAZZA ANTONIO ARTIGRAFICHE S R L ; MANTEGAZZA ANTONIO ARTI GRAFICHE S R L OSPiate DI BOLLATE ; MANTEGAZZA ANTONIO ARTIGRAFICHE SRL ; FABRIANO SEK JURITIZ SRL ; ELMIVA S A S DI WALTER MANTEGAZZA AND C ; ELMIVA S A S DI WALTER MANTEGAZZA AND CO ; ELMIVA SAS DI WALTER MANTEGAZZA AND C

Inventor(s): (std): LATSTSERINI MAURITSIO ; LAZZERINI MAURIZIO ; MAURIZIO LAZZERINI ; S R L

Inventor(s): SRL ; NA

Agent(s): FB RICE; SIM AND MCBURNEY

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT242903 E	20030615	LSGT	+	granted / extensions (spc, cpc, pte)	
AT242903 E	20031015	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	REF DOCUMENT NUMBER : 1291827 COUNTRY OF REF DOCUMENT : EP
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UTILITY MODEL					
CN1285060 C	20160928	LSRV	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN1575483 A	20050202	LSPB	+	published / reissued	
DE60100362 D1	20040708	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60100362 D1	20050922	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	OWNER NAME : FABRIANO SECURITIES S.R.L., OSPiate DI BOLLATE, MA
DE60100362 D1	20121227	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	REF DOCUMENT NUMBER : 1291827 COUNTRY OF REF DOCUMENT : EP OWNER NAME : FEDRIGONI S.P.A., IT DESCRIPTION : FORMER OWNER: FABRIANO SECURITIES S.R.L., OSPiate DI BOLLATE, IT EFFECTIVE DATE : 20121106
DE60100362 T2	20040219	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1291827 T3	20030714	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1291827 A1	20030312	LSPB	+	published / reissued	
EP1291827 A1	20030312	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20011017
EP1291827 A1	20030611	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1291827 A1	20030613	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1291827 A1	20030709	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1291827 A1	20031015	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20030403661 COUNTRY OF REF DOCUMENT : GR
EP1291827 A1	20031017	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20031017
EP1291827 A1	20031125	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	EFFECTIVE DATE : 20030611
EP1291827 A1	20031203	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	DESIGNATED STATE(S) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
EP1291827 A1	20040602	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20040312
EP1291827 A1	20050701	LSAS	NLS	NL: ASSIGNMENTS OF EP-PATENTS	OWNER NAME : FABRIANO SECURITIES S.R.L.
EP1291827 A1	20050729	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PT REF LEGAL EVENT CODE : PC4A OWNER NAME : FABRIANO SECURITIES S.R.L., IT EFFECTIVE DATE : 20050523
EP1291827 A1	20051130	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PUE OWNER NAME : FABRIANO SECURITIES S.R.L. DESCRIPTION : MANTEGAZZA ANTONIO ARTI GRAFICHE S.R.L.#VIA MILANO 71#I-20021 BOLLATE (MILAN) (IT) -TRANSFER TO- FABRIANO SECURITIES S.R.L.#VIA MILANO 71#20021 OSPiate DI BOLLATE (MILANO)

					(IT)
EP1291827 A1	20060316	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : PC2A
EP1291827 A1	20071030	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PFA OWNER NAME : FABRIANO SECURITIES S.R.L. DESCRIPTION : FABRIANO SECURITIES S.R.L.#VIA MILANO 71#20021 OSPIATE DI BOLLATE (MILANO) (IT) -TRANSFER TO- FABRIANO SECURITIES S.R.L.#VIA MILANO 71#20021 OSPIATE DI BOLLATE (MILANO) (IT)
EP1291827 A1	20081128	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20081023 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : MC PAYMENT DATE : 20081022 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20081013 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : MC PAYMENT DATE : 20081022 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20081013 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20081030 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20081028 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20081024 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20081030 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20081024 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20081028 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090227	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20081023 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090227	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090227	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090227	LSFE	+PGFP	POSTGRANT: ANNUAL	REF COUNTRY CODE : LU

				FEES PAID TO NATIONAL OFFICE	PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090227	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LU PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090227	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20081023 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090227	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090227	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090227	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20081008 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20081027 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20081024 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20081021 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20081031 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20090630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20081024 YEAR OF FEE PAYMENT : 08
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20091022 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20091026 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20091029 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20091023 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20091026 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20091026 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20091021 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	REF COUNTRY CODE : LU PAYMENT DATE : 20091026

				NATIONAL OFFICE	YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : MC PAYMENT DATE : 20091021 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20091023 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20091008 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100226	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20091027 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20091008 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20091110 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20091023 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20091024 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20091029 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20100630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20091022 YEAR OF FEE PAYMENT : 09
EP1291827 A1	20110131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20101109 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20101020 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : MC PAYMENT DATE : 20101020 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20101021 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20101020 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20101025 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20101025 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20101029 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20101020 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LU PAYMENT DATE : 20101022 YEAR OF FEE PAYMENT : 10

EP1291827 A1	20110228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20101006 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20101011 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20101021 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20101028 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20101020 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20101021 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20101022 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20110630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20101021 YEAR OF FEE PAYMENT : 10
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20111024 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20111024 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20111024 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20111025 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20111004 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20111021 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20111025 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20111020 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LU PAYMENT DATE : 20111024 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20111020 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20111103 YEAR OF FEE PAYMENT : 11
EP1291827 A1	20120131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : MC PAYMENT DATE : 20111021 YEAR OF FEE PAYMENT : 11

EP1291827 A1	20120914	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PFUS OWNER NAME : FEDRIGONI CARTIERE S.P.A., IT DESCRIPTION : FORMER OWNER: FABRIANO SECURITIES S.R.L., IT
EP1291827 A1	20120928	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PFA OWNER NAME : FEDRIGONI S.P.A. DESCRIPTION : FEDRIGONI CARTIERE S.P.A.#STRADA DEL INFANO N° 16#ARCO (TN) (IT) - TRANSFER TO- FEDRIGONI S.P.A.#VIALE PIAVE N° 3#37135 VERONA (IT)
EP1291827 A1	20121130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LU PAYMENT DATE : 20121024 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20121130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LU PAYMENT DATE : 20121024 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20121204	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PT REF LEGAL EVENT CODE : PC4A OWNER NAME : FEDRIGONI S.P.A., IT EFFECTIVE DATE : 20121128
EP1291827 A1	20121227	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 60100362 COUNTRY OF REF DOCUMENT : DE OWNER NAME : FEDRIGONI S.P.A., IT DESCRIPTION : FORMER OWNER: FABRIANO SECURITIES S.R.L., OSPIATE DI BOLLATE, IT EFFECTIVE DATE : 20121106
EP1291827 A1	20121227	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 60100362 COUNTRY OF REF DOCUMENT : DE OWNER NAME : FEDRIGONI S.P.A., IT DESCRIPTION : FORMER OWNER: FABRIANO SECURITIES S.R.L., OSPIATE DI BOLLATE, MAILAND/MILANO, IT EFFECTIVE DATE : 20121106
EP1291827 A1	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20121025 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20121025 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : MC PAYMENT DATE : 20121023 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20121030 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20121024 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20121113 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20121026 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL	REF COUNTRY CODE : BE

				FEEES PAID TO NATIONAL OFFICE	PAYMENT DATE : 20121022 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20121022 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20121030 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20121024 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20121022 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : MC PAYMENT DATE : 20121023 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20121113 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20121022 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20121026 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20121010 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20120417 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20121024 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20121029 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20121024 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20121023 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20121023 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20121029 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20121024 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20121023 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20121023 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20120417 YEAR OF FEE PAYMENT : 12

EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20121024 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20121010 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130315	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : PC REF DOCUMENT NUMBER : 242903 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T OWNER NAME : FEDRIGONI CARTIERE S.P.A., IT EFFECTIVE DATE : 20130201
EP1291827 A1	20130329	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20121018 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130329	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20121022 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130329	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20121022 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130329	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20121018 YEAR OF FEE PAYMENT : 12
EP1291827 A1	20130403	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : SD EFFECTIVE DATE : 20130326
EP1291827 A1	20131231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DK PAYMENT DATE : 20131024 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20131021 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20131030 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20131021 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20131023 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : MC PAYMENT DATE : 20131023 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20131018 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20131018 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20131022 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : LU PAYMENT DATE : 20131022 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	REF COUNTRY CODE : SE PAYMENT DATE : 20131022

				NATIONAL OFFICE	YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20130418 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20131030 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20131021 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20131024 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20131021 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20131007 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20140228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20131022 YEAR OF FEE PAYMENT : 13
EP1291827 A1	20150424	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PT REF LEGAL EVENT CODE : MM4A DESCRIPTION : LAPSE DUE TO NON-PAYMENT OF FEES EFFECTIVE DATE : 20150417
EP1291827 A1	20150501	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 60100362 COUNTRY OF REF DOCUMENT : DE
EP1291827 A1	20150520	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : V1 EFFECTIVE DATE : 20150501
EP1291827 A1	20150526	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP EFFECTIVE DATE : 20141031
EP1291827 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LU DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141017
EP1291827 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141031
EP1291827 A1	20150529	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1291827 A1	20150602	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP1291827 A1	20150615	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MM01 REF DOCUMENT NUMBER : 242903 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20141017
EP1291827 A1	20150624	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20141017
EP1291827 A1	20150624	LSLE	REG	REFERENCE TO A	REF COUNTRY CODE : GR

				NATIONAL CODE	REF LEGAL EVENT CODE : ML REF DOCUMENT NUMBER : 20030403661 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20150505
EP1291827 A1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141031
EP1291827 A1	20150729	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1291827 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FI DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141017
EP1291827 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LI DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141031
EP1291827 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150417
EP1291827 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150501
EP1291827 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CH DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141031
EP1291827 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141018
EP1291827 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GB DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141017
EP1291827 A1	20150731	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20150630
EP1291827 A1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GR DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150505
EP1291827 A1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FR DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141031
EP1291827 A1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141017
EP1291827 A1	20150831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NL DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150501
EP1291827 A1	20150831	LSLE	-PG25	LAPSED IN A	REF COUNTRY CODE : AT

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141017
EP1291827 A1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141031
EP1291827 A1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141017
EP1291827 A1	20151127	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20151127
EP1291827 A1	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : ES DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20141018
EP1291827 B1	20030611	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2194817 T3	20031201	LSGT	+	granted / extensions (spc, cpc, pte)	
IN00922DN2004 A	20100423	LSPB	+	published / reissued	
IN249573 B	20111104	LSGT	+	granted / extensions (spc, cpc, pte)	
ITMI20011889 A1	20030310	LSPB	+	published / reissued	
JP2005508263 T2	20050331	LSPB	+	published / reissued	
JP4310188 B2	20090805	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4310188 B2	20050608	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20050607
JP4310188 B2	20050713	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20050712
JP4310188 B2	20050713	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A711 EFFECTIVE DATE : 20050712
JP4310188 B2	20050811	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20050712
JP4310188 B2	20060712	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060711
JP4310188 B2	20070111	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20070110
JP4310188 B2	20070208	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A821 EFFECTIVE DATE : 20070110
JP4310188 B2	20071219	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20071218
JP4310188 B2	20080205	LSRE	A524	WRITTEN SUBMISSION OF COPY OF AMENDMENT UNDER SECTION 19 (PCT)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A524 EFFECTIVE DATE : 20080204
JP4310188 B2	20080402	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080401
JP4310188 B2	20080701	LSRE	A524	WRITTEN SUBMISSION OF COPY OF	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A524

				AMENDMENT UNDER SECTION 19 (PCT)	EFFECTIVE DATE : 20080630
JP4310188 B2	20090406	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP4310188 B2	20090415	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20090414
JP4310188 B2	20090416	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01
JP4310188 B2	20090514	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20090511
JP4310188 B2	20090515	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R150
JP4310188 B2	20090518	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20120515 YEAR OF FEE PAYMENT : 3
JP4310188 B2	20120515	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20130515 YEAR OF FEE PAYMENT : 4
JP4310188 B2	20121004	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R313111
JP4310188 B2	20121015	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20130515 YEAR OF FEE PAYMENT : 4
JP4310188 B2	20121015	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R350
JP4310188 B2	20140520	LSFE	+R250	RECEIPT OF ANNUAL FEES	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R250
JP4310188 B2	20150515	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
KR100949127 B1	20100325	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100949127 B1	20070620	LSSES	A201	REQUEST FOR EXAMINATION	
KR100949127 B1	20090624	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR100949127 B1	20100217	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR100949127 B1	20100316	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR100949127 B1	20130311	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20130311 YEAR OF FEE PAYMENT : 4
KR100949127 B1	20140312	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20140312 YEAR OF FEE PAYMENT : 5
KR100949127 B1	20150317	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR20050016280 A	20050221	LSPB	+	published / reissued	
NO20041071 A	20040416	LSPB	+	published / reissued	
NO325388 B1	20080421	LSGT	+	granted / extensions (spc, cpc, pte)	
NO325388 B1	20121112	LSAS	CHAD	CHANGE OF THE OWNER'S NAME OR ADDRESS (PAR. 44 PATENT LAW, PAR. PATENTFORSKRIFTEN)	OWNER NAME : FEDRIGONI SPA, IT

NO325388 B1	20140324	LSLE	-MM1K	LAPSED BY NOT PAYING THE ANNUAL FEES	
PT1291827 T	20030930	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2004110050 A	20050920	LSPB	+	published / reissued	
RU2294016 C2	20070220	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2294016 C2	20130427	LSLI	PC43	OFFICIAL REGISTRATION OF THE TRANSFER OF THE EXCLUSIVE RIGHT WITHOUT CONTRACT FOR INVENTIONS	EFFECTIVE DATE : 20130318
RU2294016 C2	20130610	LSAS	PD4A	CORRECTION OF NAME OF PATENT OWNER	
RU2294016 C2	20160410	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	EFFECTIVE DATE : 20150802
US2004232691 AA	20041125	LSPB	+	published / reissued	
US2004232691 AA	20040520	LSAS	AS	ASSIGNMENT	OWNER NAME : ELMIVA S.A.S. DI WALTER MANTEGAZZA AND C., ITALY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LAZZERINI, MAURIZIO; REEL/FRA:015527/0579 EFFECTIVE DATE : 20040323
US2004232691 AA	20040715	LSAS	AS	ASSIGNMENT	OWNER NAME : MANTEGAZZA ANTONIO ARTI GRAFICHE S.R.L., ITALY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ELMIVA S.A.S. DI WALTER MANTEGAZZA AND C.; REEL/FRA:015564/0283 EFFECTIVE DATE : 20040621
US2004232691 AA	20050511	LSAS	AS	ASSIGNMENT	OWNER NAME : FABRIANO SECURITIES S.R.L., ITALY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MANTEGAZZA ANTONIO ARTI GRAFICHE S.R.L.; REEL/FRA:016545/0671 EFFECTIVE DATE : 20050322
WO03023723 A1	20030320	LSPB	+	published / reissued	
WO03023723 A1	20040309	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2460082 COUNTRY OF REF DOCUMENT : CA
WO03023723 A1	20040309	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003527692 COUNTRY OF REF DOCUMENT : JP
WO03023723 A1	20040323	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002333300 COUNTRY OF REF DOCUMENT : AU
WO03023723 A1	20040427	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 20028213599 COUNTRY OF REF DOCUMENT : CN
WO03023723 A1	20040520	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10489149 COUNTRY OF REF DOCUMENT : US

Title: SECURITY DEVICE FOR USE IN SECURITY PAPERS

Abstract: Source: GB1095286A A security device for use in security paper comprises a continuous fine ribbon of a width of substantially 0.75 mm. and has printed thereon a design, lettering or pattern comprising characters of a height of substantially 0.4 mm. For the Example, a continuous sheet fed from a roll of regenerated cellulose foil had a name printed upon it in parallel columns in letters 0.4 mm. high. Alternate columns were displaced vertically by half the distance between successive lines. The sheet was then slit into ribbons 0.75 mm. wide, each of which had the name repeated along its length, but separated by spaces which contained mutilated lettering. These ribbons were then incorporated into paper by the method of Patent Specification 440,421. The sheet may alternatively be of paper, metal or plastic film or a laminate, e.g. of a central layer of aluminium foil with a layer of transparent material on each side. Identical designs, lettering or patterns may be printed on both sides. The printing may be in inks of two or more different colours, of which at least one may be fluorescent or sensitive to a chemical reagent which causes it to change colour. Phenolphthalein is referred to as an ink component that will change colour when exposed to ammonia vapour.

Classifications:

International (IPC 8-9): B41M3/14 B42D15/00 B44F1/08 B44F1/12 D21H21/42 G07D7/00 (Advanced/Invention); B41M3/14 B42D15/00 B44F1/00 D21H21/40 G07D7/00 (Core/Invention)

International (IPC 1-7): B44F1/12 D21H5/10

CPC: G07D7/00 B42D25/29 B44F1/08 B42D25/378 B42D25/355 B41M3/14 D21H21/42 B42D2035/44

European: B41M3/14 B42D15/00C B42D15/00C4 B44F1/08 D21H21/42 G07D7/00

Family:

Publication number	Publication date	Application number	Application date
DE1446851 A1	19681121	DE19641446851	19640626
FR1413910 A	19651015	FR19640980407	19640702
GB1095286 A	19671213	GB19630026989	19630708
SE306878 B	19681209	SE19640008285	19640707

Priority:

FR19640980407 19640702 GB19630026989 19630708

Probable Assignee: DENIS SILVESTER OTTWAY

Assignee(s): (std): DENIS SILVESTER OTTWAY ; PORTALS LTD

Assignee(s): PORTALS LIMITED

Inventor(s): (std): SILVESTER OTTWAY DENIS ; OTTWAY D

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
DE1446851 A1	19681121	LSPB	+	published / reissued	
FR1413910 A	19651015	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1095286 A	19671213	LSGT	+	granted / extensions (spc, cpc, pte)	
SE306878 B	19681209	LSPB	+	published / reissued	

Title: SECURITY THREAD OR TRANSFER FILM FOR HOT PROCESS MARKING OF BANK NOTES, DOCUMENTS OR OTHER ARTICLES TO BE MADE SECURE

Abstract: The invention concerns a thread or transfer film comprising at least a flexible base layer (3) and an opaque layer (4), wherein the opaque layer (4) comprises identifying signs (6) such as letters, figures or like characters. The identifying signs (6) are obtained by an engraving technique using a laser beam.

Classifications:

International (IPC 8-9): B41M3/12 B41M3/14 B42D15/00 D21H21/42 (Advanced/Invention);

D21H21/44 (Advanced/Non-invention);

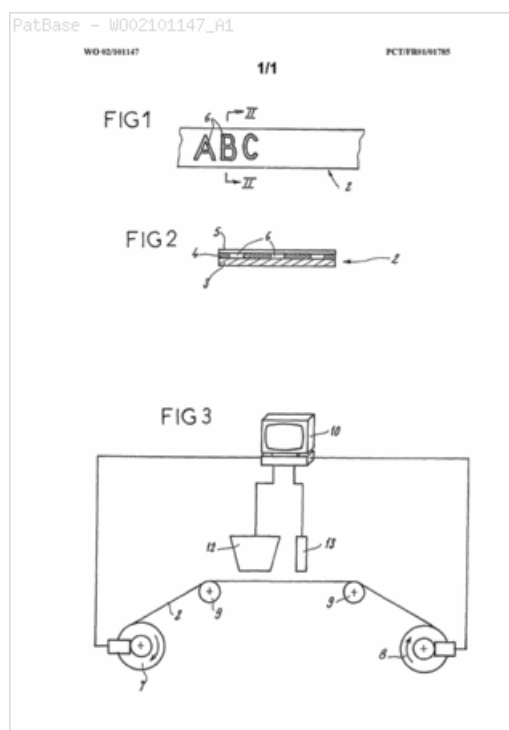
B41M3/12 B41M3/14 B42D15/00 D21H21/40 (Core/Invention)

International (IPC 1-7): B41M3/12 B41M3/14 B42D15/00 D21H21/42 D21H21/44

CPC: B41M3/12 B41M3/14 B42D25/29 B42D25/355 D21H21/42

D21H21/44

European: B41M3/12 B41M3/14 B42D15/00C B42D15/00C4 D21H21/42 N21H21/44



Family:

Publication number	Publication date	Application number	Application date
AU2001267618 AA	20021223	AU20010267618	20010608
WO02101147 A1	20021219	WO2001FR01785	20010608

Priority:

WO2001FR01785 20010608

Probable Assignee: REXOR

Assignee(s): (std): AMOUROUS MAURICE ; COCQ GILLES ; MAUPAS ALEX ; REXOR ; ROBIN VALERIE

Inventor(s): (std): AMOUROUS MAURICE ; COCQ GILLES ; MAUPAS ALEX ; ROBIN VALERIE

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2001267618 AA	20021223	LSPB	+	published / reissued	
WO02101147 A1	20021219	LSPB	+	published / reissued	
WO02101147 A1	20040415	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02101147 A1	20050405	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP

Title: SECURITY LABEL WHICH IS OPTICALLY READ BY TERAHERTZ RADIATION

Abstract: Source: US2006231625A The present invention relates to security label (12) for securing or authenticating goods or services or a security document. Currently radio frequency ID cards, having an inductive loop and a microchip containing security information, are used. However, such RF ID cards are expensive to manufacture. Therefore it is proposed to use a security label or document (12) including a terahertz image or tag (14, 15, 76) which may be a beta hologram. Security information can then be read by reflection or transmission of terahertz radiation which is not visible to the unaided eye. The terahertz image or tag may be covered by a material (66, 68) opaque to visible light, but transparent or transmissive of terahertz wavelengths, making it difficult for potential fraudsters to investigate the terahertz image. A method of making such a security label or document, a security or authentication method and system using terahertz radiation are also disclosed.

Classifications:

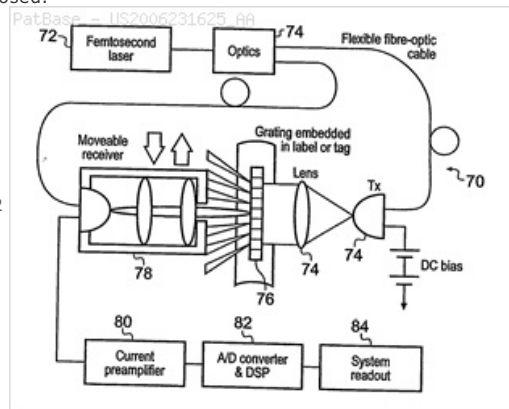
International (IPC 8-9): B42D15/00 G01N21/35 G03H5/00 G06K19/06 G06K19/16 G06K7/10 G07D7/12 (Advanced/Invention); B42D15/00 G01N21/31 G03H5/00 G06K19/06 G06K19/14 G06K7/10 G07D7/00 (Core/Invention)

International (IPC 1-7): B42D15/00 G01N21/35 G01N21/47 G01N21/49 G07D7/12

CPC: G01N21/3563 G07D7/0013 G01N21/3581 G03H5/00 G03H2001/0016 G06K19/16 B42D25/29

European: B42D15/00C G01N21/35F G03H5/00 G06K19/16 G07D7/00B2 S03H1/00A1C

US: 235/454 235/454P 235/491 235/491S



Family:

Publication number	Publication date	Application number	Application date
EP1601952 A1	20051207	EP20040720089	20040312
GB200305606 A0	20030416	GB20030005606	20030312
US2006231625 AA	20061019	US20040548529	20040312
WO04081545 A1	20040923	WO2004GB01074	20040312

Priority:

GB20030005606 20030312 WO2004GB01074 20040312

Probable Assignee: GLASGOW UNIV COURT OF UNIV OF

Assignee(s): (std): CUMMING DAVID R ; CUMMING DAVID ROBERT SIME ; DRYSDALE TIMOTHY D ; DRYSDALE TIMOTHY DAVID ; UNIV GLASGOW ; UNIV THE GLASGOW

Assignee(s): GLASGOW UNIV COURT OF UNIV OF ; THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW ; UNIVERSITY COURT OF THE UNIVERSITY OF THE GLASGOW ; COURT OF OF GLASGOW UNIV ; COURT OF UNIV ; GLASGOW UNIV

Inventor(s): (std): CUMMING DAVID R ; CUMMING DAVID ROBERT SIME ; DRYSDALE TIMOTHY D ; DRYSDALE TIMOTHY DAVID

Agent(s): NIXON AND VANDERHYTE PC

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
EP1601952 A1	20051207	LSPB	+	published / reissued	
EP1601952 A1	20051207	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20051005
EP1601952 A1	20070314	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20070207
EP1601952 A1	20110323	LSDW	-18D	DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20101001
GB200305606 A0	20040609	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
US2006231625 AA	20061019	LSPB	+	published / reissued	

US2006231625 AA	20060112	LSAS	AS	ASSIGNMENT	OWNER NAME : UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW, THE DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CUMMING, DAVID R.; DRYSDALE, TIMOTHY D.; REEL/FRAME:017539/0310 EFFECTIVE DATE : 20051013
US2006231625 AA	20060412	LSAS	AS	ASSIGNMENT	OWNER NAME : GLASGOW, THE UNIVERSITY COURT OF THE UNIVERSITY OF DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CUMMING, DAVID R.; DRYSDALE, TIMOTHY D.; REEL/FRAME:017840/0180 EFFECTIVE DATE : 20051013
WO04081545 A1	20040923	LSPB	+	published / reissued	
WO04081545 A1	20051005	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004720089 COUNTRY OF REF DOCUMENT : EP
WO04081545 A1	20051207	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2004720089 COUNTRY OF REF DOCUMENT : EP
WO04081545 A1	20060414	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006231625 COUNTRY OF REF DOCUMENT : US
WO04081545 A1	20060414	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10548529 COUNTRY OF REF DOCUMENT : US
WO04081545 A1	20061019	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10548529 COUNTRY OF REF DOCUMENT : US

Title: MULTILAYER BODY WITH A LASER-SENSITIVE LAYER

Abstract: Source: US2005142342A The present invention relates to a process for increasing the level of safeguard in respect of forgery of paper documents. For that purpose, applied to the paper document is a transfer film or laminating film having a laser-sensitive layer. This multi-layer body is then treated with laser radiation. In that case, a laser-induced marking is produced in the laser-sensitive layer, for example, by laser-induced bleaching, laser-induced color change or laser-induced blackening. Respective individualization of the document can be effected by way of that laser-induced marking.

Classifications:

International (IPC 8-9): B32B27/20 B32B29/00 B41M5/26 B42D15/10 B44C1/17 D21H21/44 G03F7/00 G03F7/095 (Advanced/Invention); B32B27/20 B32B29/00 B41M5/26 B42D15/10 B44C1/17 D21H21/40 G03F7/00 G03F7/095 (Core/Invention)

International (IPC 1-7): B32B27/20 B32B29/00 B41M5/00 B41M5/26 B42D15/10 D21H21/44

CPC: Y10S430/145 Y10S430/146 Y10S430/163 B32B37/025 B41M5/28 B41M5/34 B44C1/1716 D21H21/44 B42D25/41 B42D25/00 B42D25/455 B42D25/46 Y10T428/24934 B42D25/435 B42D25/47 B32B27/20 B41M5/26 B42D2033/20

European: B32B27/20 B41M5/26 B41M5/28 B41M5/34 B42D15/10 B44C1/17F2 D21H21/44 L32B37/02B L42D31/08 L42D31/22 L42D31/24 L42D33/20

US: 428/211.1 428/211.100P 430/200 430/270.1 430/944 430/945 430/962

PatBase - US2005142342_AA

Present Application Publication Jun. 30, 2005 Sheet 1 of 19 US 2005/0142342 A1

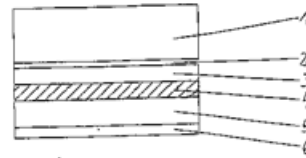


Fig. 1

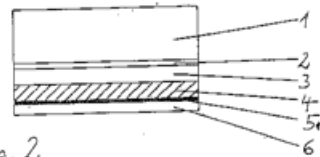


Fig. 2

Family:

Publication number	Publication date	Application number	Application date
AU2002315675 AA	20031111	AU20020315675	20020508
AU2002315675 AH	20031111	AU20020315675	20020508
CN1317452 C	20070523	CN20028029237	20020508
CN1646769 A	20050727	CN20028029237	20020508
DE10297782 D2	20050512	DE20021097782	20020508
EP1501983 A1	20050202	EP20020740324	20020508
JP2005529004 A2	20050929	JP20040503726	20020508
JP2005529004 T2	20050929	JP20040503726T	20020508
RU2004135821 A	20050527	RU20040135821	20020508
RU2294416 C2	20070227	RU20040135821	20020508
US2005142342 AA	20050630	US20050513840	20050113
US7223512 BB	20070529	US20050513840	20050113
WO03095745 A1	20031120	WO2002DE01677	20020508

Priority:

RU20040135821 20020508 WO2002DE01677 20020508

Probable Assignee: U NICA TECHNOLOGY AG

Assignee(s): (std): FISCHER DIRK ; KNAACK ULRICH ; KURZ LEONHARD FA ; ORGA KARTENSYSTEME GMBH ; LUTZ NORBERT ; ZINNER GERHARD ; SCHUMACHER MATTHIAS ; ORGA SYSTEMS GMBH ; REINHARD KUTZ GMBH ; LEONHARD KURZ GMBH AND CO KG ; LEONKHARD KURTS GMBKH U KO K ; ORGA SISTEMZ GMBKH ; LEONKHARD KURTS GMBKH UND KO K

Assignee(s): LEONKHARD KURTS GMBKH UND KO KG ; LEONKHARD KURTS GMBKH U KO KG ; LEONHARD KURZ STIFTUNG AND CO ; LEONHARD KURZ STIFTUNG AND CO KG ; U NICA TECHNOLOGY AG ; LEONHARD KURZ GMBH

Inventor(s): (std): FISCHER DIRK ; FISHER DIRK ; KINNER G ; KNAACK ULRICH ; KNAACK ULRIKH ; LUTTS NORBERT ; LUTZ NORBERT ; RUTHS N ; SCHUMACHER M ; SCHUMACHER MATTHIAS ; SCHUMACHER N RUTHS G KINNER M ; SHUMAKHER MATTIAS ; TSINNER GERHARD ; ZINNER GERHARD

Inventor(s): DIRK FISCHER ; ULRICH KNAACK ; M SCHUMACHER ; MATTHIAS SCHUMACHER ; N RUTHS ; N RUTHS G KINNER M SCHUMACHER ; NORBERT LUTZ ; KNAACK ULRIKH ; G KINNER ; GERHARD ZINNER

Agent(s): HOFFMANN AND BARON LLP; HOFFMAN AND BARON LLP

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

Patent	Date recorded	Event group	Code	Event	Details
AU2002315675 AA	20031111	LSPB	+	published / reissued	
AU2002315675 AA	20050127	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2) (F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
CN1317452 C	20070523	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1317452 C	20050727	LSPB	+C06	PUBLICATION	
CN1317452 C	20070523	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1317452 C	20091014	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN1317452 C	20091014	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	
CN1317452 C	20091014	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	OWNER NAME : LEIEN HARDKUZ GMBH + CO. KG DESCRIPTION : FORMER NAME: LEONHARD KURZ GMBH + CO.
CN1317452 C	20091014	LSAS	C56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE	OWNER NAME : LEIEN HARDKUZ FUND GMBH + CO. KG DESCRIPTION : FORMER NAME: LEIEN HARDKUZ GMBH + CO. KG
CN1317452 C	20140326	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	OWNER NAME : U-NICA TECHNOLOGY CO., LTD. DESCRIPTION : FORMER OWNER: KURZ LEONHARD FA EFFECTIVE DATE : 20140304
CN1317452 C	20140326	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	DESCRIPTION : FORMER OWNER: U-NICA TECHNOLOGY CO., LTD. EFFECTIVE DATE : 20140304
CN1646769 A	20050727	LSPB	+	published / reissued	
DE10297782 D2	20060316	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	
EP1501983 A1	20050202	LSPB	+	published / reissued	
EP1501983 A1	20050202	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20041105
EP1501983 A1	20050323	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : SCHUMACHER, MATTHIAS
EP1501983 A1	20050323	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : LUTZ, NORBERT
EP1501983 A1	20050323	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : FISCHER, DIRK
EP1501983 A1	20050323	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : ZINNER, GERHARD
EP1501983 A1	20050323	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : KNAACK, ULRICH
EP1501983 A1	20071212	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20071107
EP1501983 A1	20090930	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	OWNER NAME : ORGA SYSTEMS GMBH
EP1501983 A1	20091216	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	OWNER NAME : U-NICA TECHNOLOGY AG
EP1501983 A1	20091216	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	OWNER NAME : LEONHARD KURZ STIFTUNG AND CO. KG
EP1501983 A1	20140326	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	OWNER NAME : U-NICA TECHNOLOGY AG

JP2005529004 A2	20050929	LSPB	+	published / reissued	
JP2005529004 T2	20050929	LSPB	+	published / reissued	
JP2005529004 T2	20080107	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080104
JP2005529004 T2	20080705	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080704
JP2005529004 T2	20080723	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080722
JP2005529004 T2	20090123	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20090122
JP2005529004 T2	20090212	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20090210
JP2005529004 T2	20090701	LSRV	-A02	DECISION OF REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20090630
RU2004135821 A	20050527	LSPB	+	published / reissued	
RU2294416 C2	20070227	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2294416 C2	20091020	LSAS	PD4A	CORRECTION OF NAME OF PATENT OWNER	
RU2294416 C2	20100410	LSAS	PC4A	INVENTION PATENT ASSIGNMENT	EFFECTIVE DATE : 20100226
RU2294416 C2	20140410	LSLI	PC41	OFFICIAL REGISTRATION OF THE TRANSFER OF EXCLUSIVE RIGHT	EFFECTIVE DATE : 20140313
US2005142342 AA	20050630	LSPB	+	published / reissued	
US7223512 BB	20070529	LSGT	+	granted / extensions (spc, cpc, pte)	
US7223512 BB	20050108	LSAS	AS	ASSIGNMENT	OWNER NAME : ORGA SYSTEMS GMBH, GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: SCHUMACHER, MATTHIAS; KNAACK, ULRICH; FISCHER, DIRK; REEL/FRAME: 016295/0205 EFFECTIVE DATE : 20041223
US7223512 BB	20050108	LSAS	AS	ASSIGNMENT	OWNER NAME : LEONHARD KURZ GMBH AND CO. KG, GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: LUTZ, NORBERT; ZINNER, GERHARD; REEL/FRAME: 016295/0200 EFFECTIVE DATE : 20041223
US7223512 BB	20090723	LSAS	AS	ASSIGNMENT	OWNER NAME : LEONHARD KURZ STIFTUNG AND CO. KG, GERMANY DESCRIPTION : CHANGE OF NAME; ASSIGNOR: LEONHARD KURZ GMBH AND CO. KG; REEL/FRAME: 022990/0623 EFFECTIVE DATE : 20080718
US7223512 BB	20090723	LSAS	AS	ASSIGNMENT	OWNER NAME : U-NICA TECHNOLOGY AG, SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: ORGA SYSTEMS GMBH; REEL/FRAME: 022990/0521 EFFECTIVE DATE : 20090608
US7223512 BB	20101122	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7223512 BB	20140221	LSAS	AS	ASSIGNMENT	OWNER NAME : U-NICA TECHNOLOGY AG, SWITZERLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST;

US7223512 BB	20141120	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
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WO03095745 A1	20041105	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002740324 COUNTRY OF REF DOCUMENT : EP
WO03095745 A1	20041108	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004503726 COUNTRY OF REF DOCUMENT : JP
WO03095745 A1	20041208	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2004135821 COUNTRY OF REF DOCUMENT : RU KIND CODE OF REF DOCUMENT : A
WO03095745 A1	20041228	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 20028292375 COUNTRY OF REF DOCUMENT : CN
WO03095745 A1	20050113	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10513840 COUNTRY OF REF DOCUMENT : US
WO03095745 A1	20050202	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002740324 COUNTRY OF REF DOCUMENT : EP

Title: SECURITY DOCUMENT

Abstract: Source: US2008191462A The invention relates to a value document, such as bank note, passport or the like, which has a security paper and a marking produced with the help of a laser, the security paper having at least one partial area with a coating, and the marking extending over the border area between coating and security paper. Further, the invention relates to a security paper and methods for producing an inventive value document and security paper.

Classifications:

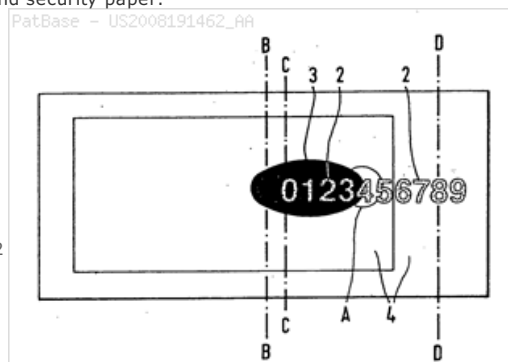
International (IPC 8-9): B41M3/14 B42D15/00 B42D15/10 B44F1/12 D21H21/40 D21H21/42 (Advanced/Invention); B41M5/26 D21H19/82 (Advanced/Non-invention); B41M3/14 B42D15/00 B42D15/10 B44F1/00 D21H21/40 (Core/Invention); B41M5/26 D21H19/00 (Core/Non-invention)

International (IPC 1-7): B41M3/14 B42D15/00 B42D15/10 B44F1/12 D21H21/40 D21H21/42

CPC: B41M3/14 B41M5/26 D21H21/42 D21H21/40 D21H19/82 B42D25/23 B42D25/24 B42D25/373 B42D25/41 B42D25/29 B42D25/355 B42D2033/10 B42D2033/26

European: B41M3/14 B42D15/00C B42D15/00C4 D21H21/40 D21H21/42 L41M5/26 L42D31/08 L42D33/10 L42D33/26 N21H19/82

US: 283/110 283/110P 283/72 283/86 347/224 347/224S 427/7 427/7S



Family:

Publication number	Publication date	Application number	Application date
CA2565479 AA	20061102	CA20052565479	20050502
CA2565479 C	20131112	CA20052565479	20050502
CN100522648 C	20090805	CN200580022294	20050502
CN1980800 A	20070613	CN200580022294	20050502
DE102004027306 A1	20051222	DE200410027306	20040604
DE502005013435 D1	20130321	DE200550013435T	20050502
EP1744899 A1	20070124	EP20050739640	20050502
EP1744899 B1	20130123	EP20050739640	20050502
RU2006142736 A	20080727	RU20060142736	20050502
RU2381906 C2	20100220	RU20060142736	20050502
US2008191462 AA	20080814	US20050579495	20050502
US8622433 BB	20140107	US20050579495	20050502
WO05108109 A1	20051117	WO2005EP04741	20050502

Priority:

DE200410022081 20040505 DE200410027306 20040604 WO2005EP04741 20050502
EP20050739640 20050502

Probable Assignee: GIESECKE AND DEVRIENT GMBH

Assignee(s): (std): BALDUS CHRISTOF ; DEPTA GEORG ; DOERFLER WALTER ; DORFLER WALTER ; FRANZ PETER ; GIESECKE AND DEVRIENT GMBH ; MAYER KARLHEINZ ; VOIT MAX

Assignee(s): GIZEKE U DEVRIENT GMBKH ; GIZEKE UND DEVRIENT GMBKH

Inventor(s): (std): DOERFLER WALTER ; FOIT MAK S ; FRANTS PETER ; FRANZ PETER ; MAJER KARLKHAJNTS ; MAYER KARLHEINZ ; VOIT MAX ; WALTER DEPTA GEORG MAYER KARLH ; WALTER DOERFLER ; PETER FRANZ ; MAX VOIT ; KARLHEINZ MAYER ; GEORG DEPTA ; DORFLER WALTER ; CHRISTOF BALDUS ; BAL DUS KRISTOF ; BALDUS CHRISTOF ; DEPTA GEORG ; DERFLER VAL TER

Inventor(s): DERFLER VAL TER ; DEPTA GEORG MAYER KARLHEINZ BALDUS CHRISTOF ; DEPTA GEORG MAYER KARLHEINZ BALDUS CHRISTOF FRANZP ; BAL DUS KRISTOF

Agent(s): RIDOUT AND MAYBEE LLP; BACON AND THOMAS PLLC

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CA2565479 AA	20061102	LSPB	+	published / reissued	
CA2565479 AA	20061102	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2565479 AA	20100430	LSES	+EEER	EXAMINATION REQUEST	
CA2565479 AA	20150615	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20150504
CA2565479 C	20131112	LSGT	+	granted / extensions (spc,	

CN100522648 C	20090805	LSGT	+	cpc, pte) granted / extensions (spc, cpc, pte)	
CN1980800 A	20070613	LSPB	+	published / reissued	
CN1980800 A	20070613	LSPB	+C06	PUBLICATION	
CN1980800 A	20090805	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
DE102004027306 A1	20051222	LSPB	+	published / reissued	
DE102004027306 A1	20110601	LSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
DE102004027306 A1	20110601	LSES	+R012	REQUEST FOR EXAMINATION VALIDLY FILED	EFFECTIVE DATE : 20110316
DE102004027306 A1	20130418	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20130101
EP1744899 A1	20070124	LSPB	+	published / reissued	
EP1744899 A1	20070124	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20061205
EP1744899 A1	20070418	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : MAYER, KARLHEINZ
EP1744899 A1	20070418	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : BALDUS, CHRISTOF
EP1744899 A1	20070418	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : VOIT, MAX
EP1744899 A1	20070418	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : FRANZ, PETER
EP1744899 A1	20070418	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : DOERFLER, WALTER
EP1744899 A1	20070418	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : DEPTA, GEORG
EP1744899 A1	20070502	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20070402
EP1744899 A1	20130123	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D DESCRIPTION : NOT ENGLISH
EP1744899 A1	20130215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1744899 A1	20130215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 594745 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20130215
EP1744899 A1	20130227	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D DESCRIPTION : LANGUAGE OF EP DOCUMENT: GERMAN
EP1744899 A1	20130321	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502005013435 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130321
EP1744899 A1	20130417	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP1744899 A1	20130625	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D

EP1744899 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BG DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130423
EP1744899 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IS DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130523
EP1744899 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130522 YEAR OF FEE PAYMENT : 09
EP1744899 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20130522 YEAR OF FEE PAYMENT : 09
EP1744899 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20130521 YEAR OF FEE PAYMENT : 09
EP1744899 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20130531 YEAR OF FEE PAYMENT : 09
EP1744899 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : ES DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130504
EP1744899 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130523
EP1744899 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130424
EP1744899 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20130830	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20130525 YEAR OF FEE PAYMENT : 09

EP1744899 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20130426 YEAR OF FEE PAYMENT : 09
EP1744899 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130604 YEAR OF FEE PAYMENT : 09
EP1744899 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20130523 YEAR OF FEE PAYMENT : 09
EP1744899 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20131127	LSOP	-26	OPPOSITION FILED	OPPONENT NAME : INNOVIA SECURITY PTY LTD. EFFECTIVE DATE : 20131023
EP1744899 A1	20131127	LSOP	-26	OPPOSITION FILED	OPPONENT NAME : KBA-NOTASYS SA EFFECTIVE DATE : 20131018
EP1744899 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : EE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CZ DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : RO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20131130	LSLE	-BERE	BE: LAPSED	OWNER NAME : GIESECKE AND DEVRIENT G.M.B.H. EFFECTIVE DATE : 20130531
EP1744899 A1	20131231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130123
EP1744899 A1	20140116	LSOP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R026 REF DOCUMENT NUMBER : 502005013435 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20131018

EP1744899 A1	20140226	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1744899 A1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130531
EP1744899 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130502
EP1744899 A1	20140731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140520 YEAR OF FEE PAYMENT : 10
EP1744899 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140531 YEAR OF FEE PAYMENT : 10
EP1744899 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20140520 YEAR OF FEE PAYMENT : 10
EP1744899 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20140520 YEAR OF FEE PAYMENT : 10
EP1744899 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20140516 YEAR OF FEE PAYMENT : 10
EP1744899 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20140522 YEAR OF FEE PAYMENT : 10
EP1744899 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20140528 YEAR OF FEE PAYMENT : 10
EP1744899 A1	20140930	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20140424 YEAR OF FEE PAYMENT : 10
EP1744899 A1	20150115	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MM01 REF DOCUMENT NUMBER : 594745 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20140502
EP1744899 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : AT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20140502
EP1744899 A1	20150519	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 11
EP1744899 A1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO	REF COUNTRY CODE : TR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130123

EP1744899 A1	20150731	LSLE	-PG25	EPO LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HU DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO EFFECTIVE DATE : 20050502
EP1744899 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LU DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130502
EP1744899 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20150521 YEAR OF FEE PAYMENT : 11
EP1744899 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20150531 YEAR OF FEE PAYMENT : 11
EP1744899 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20150520 YEAR OF FEE PAYMENT : 11
EP1744899 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20150521 YEAR OF FEE PAYMENT : 11
EP1744899 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20150519 YEAR OF FEE PAYMENT : 11
EP1744899 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20150423 YEAR OF FEE PAYMENT : 11
EP1744899 A1	20160129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150502
EP1744899 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NL DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150601
EP1744899 A1	20160523	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 12
EP1744899 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20160526 YEAR OF FEE PAYMENT : 12
EP1744899 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20160531 YEAR OF FEE PAYMENT : 12
EP1744899 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20160523 YEAR OF FEE PAYMENT : 12
EP1744899 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20160523 YEAR OF FEE PAYMENT : 12

EP1744899 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20160419 YEAR OF FEE PAYMENT : 12
EP1744899 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20160523 YEAR OF FEE PAYMENT : 12
EP1744899 A1	20161123	LSOP	-R26	OPPOSITION FILED (CORRECTION)	OPPONENT NAME : INNOVIA SECURITY PTY LTD. EFFECTIVE DATE : 20131023
EP1744899 B1	20130123	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2006142736 A	20080727	LSPB	+	published / reissued	
RU2381906 C2	20100220	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2381906 C2	20151210	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	EFFECTIVE DATE : 20150503
US2008191462 AA	20080814	LSPB	+	published / reissued	
US2008191462 AA	20071030	LSAS	AS	ASSIGNMENT	OWNER NAME : GIESECKE AND DEVRIENT GMBH, GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DEPTA, GEORG; MAYER, KARLHEINZ; BALDUS, CHRISTOF; AND OTHERS; REEL/FRAME:020042/0247; SIGNING DATES FROM 20061124 TO 20061129
US2008191462 AA	20071030	LSAS	AS	ASSIGNMENT	OWNER NAME : GIESECKE AND DEVRIENT GMBH, GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DEPTA, GEORG; MAYER, KARLHEINZ; BALDUS, CHRISTOF; AND OTHERS; SIGNING DATES FROM 20061124 TO 20061129; REEL/FRAME:020042/0247
US8622433 BB	20140107	LSGT	+	granted / extensions (spc, cpc, pte)	
US8622433 BB	20071030	LSAS	AS	ASSIGNMENT	OWNER NAME : GIESECKE AND DEVRIENT GMBH, GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DEPTA, GEORG; MAYER, KARLHEINZ; BALDUS, CHRISTOF; AND OTHERS; REEL/FRAME:020042/0247; SIGNING DATES FROM 20061124 TO 20061129
US8622433 BB	20071030	LSAS	AS	ASSIGNMENT	OWNER NAME : GIESECKE AND DEVRIENT GMBH, GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DEPTA, GEORG; MAYER, KARLHEINZ; BALDUS, CHRISTOF; AND OTHERS; SIGNING DATES FROM 20061124 TO 20061129; REEL/FRAME:020042/0247
WO05108109 A1	20051117	LSPB	+	published / reissued	
WO05108109 A1	20061102	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2565479 COUNTRY OF REF DOCUMENT : CA
WO05108109 A1	20061107	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05108109 A1	20061107	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL	COUNTRY OF REF DOCUMENT : DE

OFFICE					
WO05108109 A1	20061127	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005739640 COUNTRY OF REF DOCUMENT : EP
WO05108109 A1	20061205	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006142736 COUNTRY OF REF DOCUMENT : RU
WO05108109 A1	20061230	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580022294.7 COUNTRY OF REF DOCUMENT : CN
WO05108109 A1	20070124	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005739640 COUNTRY OF REF DOCUMENT : EP
WO05108109 A1	20071101	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11579495 COUNTRY OF REF DOCUMENT : US

Title: SECURITY SHEET

Abstract: Source: JP2005279940A PROBLEM TO BE SOLVED: To provide a security sheet having a printing function useful for judgement of authenticity or prevention of forgery or alteration or the like. SOLUTION: This security sheet is formed by laminating a paper base material, a laser beam irradiation color developing resin layer made of a resin composition including a resin as a vehicle and a colorant developing color through laser beam irradiation under the condition that the content of the colorant developing color through laser beam irradiation is 0.01-50.0 weight percent to the resin and a paper base material in the order named.

Classifications:

International (IPC 8-9): B23K26/00 B42D15/10

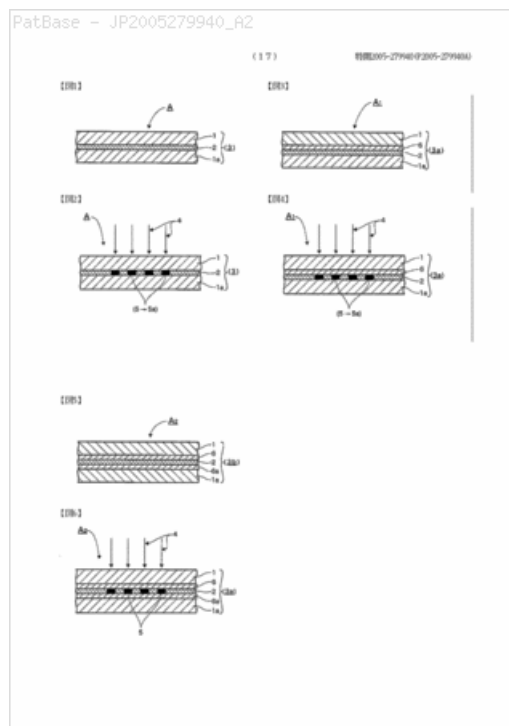
D21H21/40 (Advanced/Invention);

B23K26/00 (Advanced/Non-invention);

B23K26/00 B42D15/10 D21H21/40 (Core/Invention);

B23K26/00 (Core/Non-invention)

International (IPC 1-7): B23K26/00 B42D15/10 D21H21/40



Family:

Publication number	Publication date	Application number	Application date
JP2005279940 A2	20051013	JP20040092860	20040326
JP4391287 B2	20091224	JP20040092860	20040326

Priority:

JP20040092860 20040326

Probable Assignee: DAINIPPON PRINTING CO LTD

Assignee(s): (std): DAINIPPON PRINTING CO LTD

Assignee(s): DAI NIPPON PRINTING CO LTD

Inventor(s): (std): MITA KOZO ; TARUYA TAKASHI ; UEKI TAKAYUKI

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
JP2005279940 A2	20051013	LSPB	+	published / reissued	
JP4391287 B2	20091224	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4391287 B2	20070302	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20070301
JP4391287 B2	20090722	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20090721
JP4391287 B2	20090918	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE

INTERMEDIATE
CODE: A523
EFFECTIVE DATE :
20090917

JP4391287 B2	20091002	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP4391287 B2	20091007	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20091006
JP4391287 B2	20091008	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01
JP4391287 B2	20091015	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20091007
JP4391287 B2	20091016	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20121016 YEAR OF FEE PAYMENT : 3
JP4391287 B2	20091016	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R150
JP4391287 B2	20120904	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20131016 YEAR OF FEE PAYMENT : 4

Title: SECURITY ELEMENT HAVING A MACHINE-READABLE AUTHENTICITY FEATURE

Abstract: The invention relates to a security feature for security papers, valuable documents, chip cards and the like having a machine-readable authenticity feature. According to the invention, the authenticity feature contains at least one region with a periodically conductive surface element (42) that exhibits resonance effects in a predetermined frequency range of incident electromagnetic radiation.

Classifications:

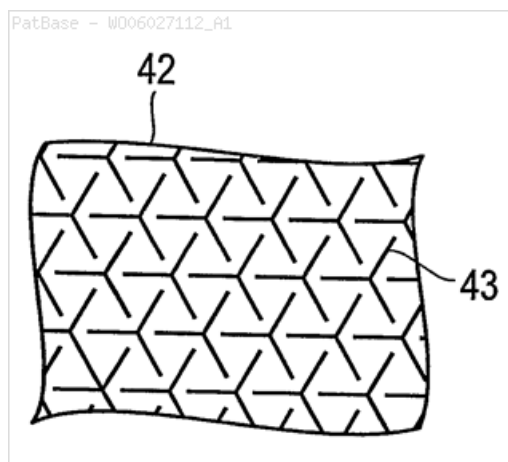
International (IPC 8-9): B42D15/00 B42D15/10 B44F1/12 G06K19/073 G07D7/04 G07D7/06 G07F7/08 (Advanced/Invention);

B42D15/10 B44F1/00 G06K19/073 G07D7/00 G07F7/08 (Core/Invention)

International (IPC 1-7): G07D7/04 G07D7/06 G07F7/08

CPC: B42D25/29 G07D7/04 G07D7/06 G07F7/086

European: B42D15/00C G07D7/04 G07D7/06 G07F7/08B



Family:

Publication number	Publication date	Application number	Application date
DE102004043064 A1	20060309	DE200410043064	20040906
DE502005013884 D1	20131002	DE200550013884T	20050825
EP1792283 A1	20070606	EP20050776344	20050825
EP1792283 B1	20130731	EP20050776344	20050825
WO06027112 A1	20060316	WO2005EP09182	20050825

Priority:

DE200410043064 20040906 EP20050776344 20050825 WO2005EP09182 20050825

Probable Assignee: GIESECKE AND DEVRIENT GMBH

Assignee(s): (std): FINKENZELLER KLAUS ; GIESECKE AND DEVRIENT GMBH ; PILLO THORSTEN

Inventor(s): (std): PILLO THORSTEN ; FINKENZELLER KLAUS

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102004043064 A1	20060309	LSPB	+	published / reissued	
DE102004043064 A1	20060309	LSES	+OM8	SEARCH REPORT AVAILABLE AS TO PARAGRAPH 43 LIT. 1 SENTENCE 1 PATENT LAW	
DE102004043064 A1	20110929	LSES	+R012	REQUEST FOR EXAMINATION VALIDLY FILED	EFFECTIVE DATE : 20110714
DE102004043064 A1	20130926	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20130403
EP1792283 A1	20070606	LSPB	+	published / reissued	
EP1792283 A1	20070606	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070410
EP1792283 A1	20081231	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20081201

EP1792283 A1	20130410	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B42D 15/00 20060101AFI20130305BHEP
EP1792283 A1	20130410	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : G07D 7/06 20060101ALI20130305BHEP
EP1792283 A1	20130410	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : G07D 7/04 20060101ALI20130305BHEP
EP1792283 A1	20130410	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : G07F 7/08 20060101ALI20130305BHEP
EP1792283 A1	20130501	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20130404
EP1792283 A1	20130731	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1792283 A1	20130731	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D DESCRIPTION : NOT ENGLISH
EP1792283 A1	20130815	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 624376 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20130815
EP1792283 A1	20130828	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D DESCRIPTION : LANGUAGE OF EP DOCUMENT : GERMAN
EP1792283 A1	20131002	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502005013884 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20131002
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EP1792283 A1	20131129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130821 YEAR OF FEE PAYMENT : 09
EP1792283 A1	20131225	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20130731
EP1792283 A1	20131227	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP1792283 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20130731
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EP1792283 A1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-

				EPO	LIMIT EFFECTIVE DATE : 20130717
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EP1792283 A1	20140228	LSLE	-BERE	BE: LAPSED	OWNER NAME : GIESECKE AND DEVRIENT G.M.B.H. EFFECTIVE DATE : 20130831
EP1792283 A1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PL DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130731
EP1792283 A1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130731
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EP1792283 A1	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20131101
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EP1792283 A1	20140331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130731
EP1792283 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A

				VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130731
EP1792283 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130731
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EP1792283 A1	20140521	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1792283 A1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130731
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EP1792283 A1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130731
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EP1792283 A1	20140709	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20140502
EP1792283 A1	20140718	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20140618
EP1792283 A1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT	REF COUNTRY CODE : IE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130825

				INFORM. FROM NAT. OFFICE TO EPO	
EP1792283 A1	20140814	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502005013884 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140502
EP1792283 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FR DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130930
EP1792283 A1	20141015	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MM01 REF DOCUMENT NUMBER : 624376 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20130825
EP1792283 A1	20141031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140831 YEAR OF FEE PAYMENT : 10
EP1792283 A1	20141031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20140821 YEAR OF FEE PAYMENT : 10
EP1792283 A1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : AT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130825
EP1792283 A1	20141128	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140821 YEAR OF FEE PAYMENT : 10
EP1792283 A1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : TR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130731
EP1792283 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BG DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130731
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EP1792283 A1	20151030	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20150831 YEAR OF FEE PAYMENT : 11
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EP1792283 A1	20151030	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL	REF COUNTRY CODE : CH PAYMENT DATE : 20150824 YEAR OF FEE PAYMENT : 11

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EP1792283 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20160824 YEAR OF FEE PAYMENT : 12
EP1792283 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20160824 YEAR OF FEE PAYMENT : 12
EP1792283 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20160831 YEAR OF FEE PAYMENT : 12
EP1792283 B1	20130731	LSGT	+	granted / extensions (spc, cpc, pte)	
WO06027112 A1	20060316	LSPB	+	published / reissued	
WO06027112 A1	20070307	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06027112 A1	20070326	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005776344 COUNTRY OF REF DOCUMENT : EP
WO06027112 A1	20070606	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005776344 COUNTRY OF REF DOCUMENT : EP

Title: METHOD OF MARKING MATERIAL, MARKED AND VERIFICATION OF GENUINENESS OF A PRODUCT

Abstract: Source: US2008187851A The invention relates to the marking of a material (18) with identifier marks (16), the material thus marked, and verification of the genuineness of a product on the basis of the marks. In accordance with the invention, an optical brightener is incorporated in the material (18), and marking is performed by reducing the brightness of the material at a selected location by directing local heating to this location, the mark (16) thus produced appearing with a darker shade than its environment in ultraviolet light (20). The marking is based on partial or complete destruction of the brightening effect of the optical brightener under heating. The invention is suitable for providing e.g. coated paper and board containing an optical brightener with identifier marks for preventing falsifications.

Classifications:

International (IPC 8-9): B05D5/00 B23K26/00 B41M3/14 B41M5/26

B41M5/28 B41M5/30 B41M5/337 B41M5/40 B41M5/46 D21H21/30

D21H21/40 D21H21/44 D21H21/48 D21H23/22 G07D7/00

G07D7/12 (Advanced/Invention);

B41M3/14 D21H21/30 (Advanced/Non-invention);

B41M3/14 B41M5/26 D21H21/40 D21H23/00 G07D7/00 (Core/Invention);

B41M3/14 D21H21/14 (Core/Non-invention);

B07C (Subclass/Invention)

CPC: B41M3/144 B41M5/267 D21H21/30 D21H21/40 G07D7/122

G07D7/128

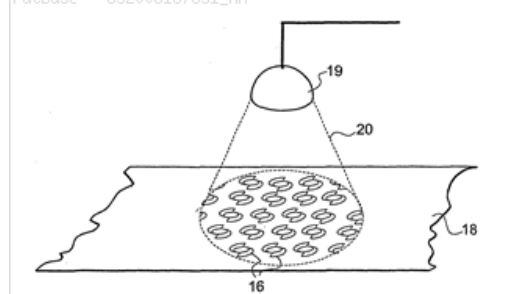
European: B41M3/14F B41M5/26L D21H21/40 G07D7/00V G07D7/12C

G07D7/12V N21H21/30

US: 250/372 250/458.1 250/461.1 427/158 427/256 427/283 427/7

427/7S 428/29 428/29S 430/97 430/97P

PatBase - US2008187851_AA



Family:

Publication number	Publication date	Application number	Application date
AT494424 E	20110115	AT20050786191T	20050909
CA2579745 AA	20070307	CA20052579745	20050909
CA2579745 C	20140617	CA20052579745	20050909
DE602005025780 D1	20110217	DE200560025780T	20050909
EP1786976 A1	20070523	EP20050786191	20050909
EP1786976 A4	20100616	EP20050786191	20050909
EP1786976 B1	20110105	EP20050786191	20050909
ES2357135 T3	20110419	ES20050786191T	20050909
FI116949 B	20060413	FI20040001177	20040910
FI20041177 A0	20040910	FI20040001177	20040910
JP2008512278 T2	20080424	JP20070530729T	20050909
JP4749424 B2	20110817	JP20070530729	20050909
US2008187851 AA	20080807	US20050662086	20050909
US7897212 BB	20110301	US20050662086	20050909
WO06027418 A1	20060316	WO2005FI00389	20050909

Priority:

FI20040001177 20040910 WO2005FI00389 20050909

Probable Assignee: STORA ENSO OYJ

Assignee(s): (std): KURITTU MINNA ; STORA ENSO OYJ

Inventor(s): (std): KURITTU MINNA

Agent(s): GOUDREAU GAGE DUBUC; SAIJONMAA OLLI PEKKA; BIRCH STEWART KOLASCH AND BIRCH; BIRCH STEWART KOLASCH AND BIRCH LLP

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT494424 E	20110115	LSGT	+	granted / extensions (spc, cpc, pte)	
AT494424 E	20110715	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
CA2579745 AA	20070307	LSPB	+	published / reissued	
CA2579745 AA	20070307	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2579745 AA	20100810	LSSES	+EEER	EXAMINATION REQUEST	
CA2579745 AA	20100825	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20100810

CA2579745 AA	20161022	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20160909
CA2579745 C	20140617	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1786976 A1	20070523	LSPB	+	published / reissued	
EP1786976 A1	20070523	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070220
EP1786976 A1	20070725	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : KURITTU, MINNA
EP1786976 A1	20100616	LSSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20100517
EP1786976 A1	20100929	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : D21H 21/48 20060101AFI20100824BHEP
EP1786976 A1	20100929	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : D21H 21/40 20060101ALI20100824BHEP
EP1786976 A1	20100929	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B41M 3/14 20060101ALI20100824BHEP
EP1786976 A1	20110105	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1786976 A1	20110114	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1786976 A1	20110202	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1786976 A1	20110217	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602005025780 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20110217
EP1786976 A1	20110419	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2357135 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 EFFECTIVE DATE : 20110419
EP1786976 A1	20110518	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20110105
EP1786976 A1	20110627	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	EFFECTIVE DATE : 20110105
EP1786976 A1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20110105
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EP1786976 A1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM.	REF COUNTRY CODE : LV DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE

				FROM NAT. OFFICE TO EPO	DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110406
EP1786976 A1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IS DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110505
EP1786976 A1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BG DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110405
EP1786976 A1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : AT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PL DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NL DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20111031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO	REF COUNTRY CODE : EE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE

				EPO	WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20111031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20111130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CZ DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20111130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : RO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20111130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20111130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20110923 YEAR OF FEE PAYMENT : 07
EP1786976 A1	20111130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20110926 YEAR OF FEE PAYMENT : 07
EP1786976 A1	20111130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20110923 YEAR OF FEE PAYMENT : 07
EP1786976 A1	20111130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20110920 YEAR OF FEE PAYMENT : 07
EP1786976 A1	20111130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20110928 YEAR OF FEE PAYMENT : 07
EP1786976 A1	20111214	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20111006
EP1786976 A1	20111230	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20110923 YEAR OF FEE PAYMENT : 07
EP1786976 A1	20120202	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602005025780 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20111006
EP1786976 A1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20110930
EP1786976 A1	20120430	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1786976 A1	20120620	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1786976 A1	20120731	LSLE	-PG25	LAPSED IN A	REF COUNTRY CODE : CH

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20110930
EP1786976 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20110909
EP1786976 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LI DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20110930
EP1786976 A1	20121031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20120920 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20121031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20120919 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20121031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20120919 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20121031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20120920 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120924 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20120926 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20120921 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20120921 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20120926 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20121231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120924 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20121010 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20121010 YEAR OF FEE PAYMENT : 08
EP1786976 A1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LU DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20110909
EP1786976 A1	20130930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : TR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM.	REF COUNTRY CODE : HU DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE

				FROM NAT. OFFICE TO EPO	DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110105
EP1786976 A1	20131031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20130919 YEAR OF FEE PAYMENT : 09
EP1786976 A1	20131031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20130919 YEAR OF FEE PAYMENT : 09
EP1786976 A1	20131031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20130927 YEAR OF FEE PAYMENT : 09
EP1786976 A1	20131129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130919 YEAR OF FEE PAYMENT : 09
EP1786976 A1	20131129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130919 YEAR OF FEE PAYMENT : 09
EP1786976 A1	20131231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20130924 YEAR OF FEE PAYMENT : 09
EP1786976 A1	20141031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140922 YEAR OF FEE PAYMENT : 10
EP1786976 A1	20141128	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140919 YEAR OF FEE PAYMENT : 10
EP1786976 A1	20141128	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20140919 YEAR OF FEE PAYMENT : 10
EP1786976 A1	20141128	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20140926 YEAR OF FEE PAYMENT : 10
EP1786976 A1	20141128	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20140918 YEAR OF FEE PAYMENT : 10
EP1786976 A1	20150331	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20140929 YEAR OF FEE PAYMENT : 10
EP1786976 A1	20160401	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 602005025780 COUNTRY OF REF DOCUMENT : DE
EP1786976 A1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150909
EP1786976 A1	20160503	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP1786976 A1	20160525	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20150909
EP1786976 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150910
EP1786976 A1	20160701	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20160531

EP1786976 A1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GB DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150909
EP1786976 A1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20160401
EP1786976 A1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FR DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20150930
EP1786976 A1	20161027	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20161027
EP1786976 B1	20110105	LSGT	+	granted / extensions (spc, cpc, pte)	REF DOCUMENT NUMBER : 116949 COUNTRY OF REF DOCUMENT : FI
ES2357135 T3	20110419	LSGT	+	granted / extensions (spc, cpc, pte)	
FI116949 B	20060413	LSPB	+	published / reissued	
FI116949 B	20060413	LSGT	+FG	Patent granted	
FI116949 B	20160429	LSLE	-MM	PATENT LAPSED	
JP2008512278 T2	20080424	LSPB	+	published / reissued	
JP2008512278 T2	20101208	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20101207
JP2008512278 T2	20110305	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110304
JP4749424 B2	20110817	LSGT	+	granted / extensions (spc, cpc, pte)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20080124
JP4749424 B2	20080125	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	
JP4749424 B2	20110305	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110304
JP4749424 B2	20110511	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20110510
JP4749424 B2	20110512	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01
JP4749424 B2	20110526	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20110517
JP4749424 B2	20110527	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R150
JP4749424 B2	20110530	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20140527 YEAR OF FEE PAYMENT : 3
JP4749424 B2	20150526	LSFE	+R250	RECEIPT OF ANNUAL FEES	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R250
US2008187851 AA	20080807	LSPB	+	published / reissued	
US2008187851 AA	20070307	LSAS	AS	ASSIGNMENT	OWNER NAME : STORA ENSO OYJ, FINLAND

					DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KURITTU, MINNA; REEL/FRAME:019006/0958 EFFECTIVE DATE : 20070118
US7897212 BB	20110301	LSGT	+	granted / extensions (spc, cpc, pte)	
US7897212 BB	20070307	LSAS	AS	ASSIGNMENT	OWNER NAME : STORA ENSO OYJ, FINLAND DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KURITTU, MINNA; REEL/FRAME:019006/0958 EFFECTIVE DATE : 20070118
US7897212 BB	20140828	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
WO06027418 A1	20060316	LSPB	+	published / reissued	
WO06027418 A1	20070220	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005786191 COUNTRY OF REF DOCUMENT : EP
WO06027418 A1	20070307	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2579745 COUNTRY OF REF DOCUMENT : CA
WO06027418 A1	20070307	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11662086 COUNTRY OF REF DOCUMENT : US
WO06027418 A1	20070308	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007530729 COUNTRY OF REF DOCUMENT : JP
WO06027418 A1	20070313	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06027418 A1	20070523	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005786191 COUNTRY OF REF DOCUMENT : EP

Title: SECURITY ELEMENT AND METHOD FOR THE PRODUCTION THEREOF

Abstract: The invention relates to a security element (20), in particular for valuable documents comprising a reflecting layer (22) in which visually recognisable characteristics are integrated in the form of patterns, letters, figures or images by means of a laser radiation. According to said invention, said reflecting layer (22) comprises a first partial area (24) provided with an interference structure and a second partial area (26), wherein said partial areas (24, 26) differently interact with the laser radiation in such a way that the modification of the optical characteristics of the reflecting layer of one of the partial area (24, 26) produced by the laser radiation enables the characteristics to be visually recognisable.

Classifications:

International (IPC 8-9): B41M3/14 B42D15/00 B42D15/10 B42D25/30

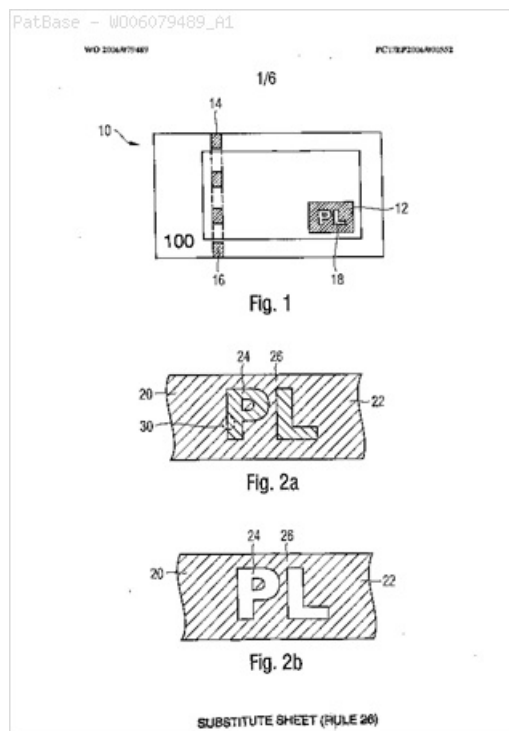
B44F1/12 D21H21/40 (Advanced/Invention);

B41M3/14 (Advanced/Non-invention);

B42D15/10 B44F1/00 D21H21/40 (Core/Invention)

CPC: B42D25/355 B41M3/14 B41M5/24 B41M5/26 G03H2001/303

European: B41M3/14 B42D15/00C4 L41M5/24 L41M5/26 S03H1/30L



Family:

Publication number	Publication date	Application number	Application date
AT547259 E	20120315	AT20060014326T	20060123
DE102005003958 A1	20060803	DE200510003958	20050127
DE502006011062 D1	20120419	DE200650011062T	20060123
DE502006013486 D1	20140220	DE200650013486T	20060123
EP1843901 A1	20071017	EP20060706357	20060123
EP1843901 B1	20140108	EP20060706357	20060123
EP2284015 A1	20110216	EP20100014326	20060123
EP2284015 B1	20120229	EP20100014326	20060123
WO06079489 A1	20060803	WO2006EP00552	20060123

Priority:

DE200510003958 20050127 EP20060706357 20060123 EP20100014326 20060123
WO2006EP00552 20060123

Probable Assignee: GIESECKE AND DEVRIENT GMBH

Assignee(s): (std): DEPTA GEORG ; DOERFLER WALTER ; GIESECKE AND DEVRIENT ; GIESECKE AND DEVRIENT GMBH ; HEIM MANFRED ; KAULE WITTICH ; MAYER KARLHEINZ

Inventor(s): (std): DEPTA GEORG ; DOERFLER WALTER ; HEIM MANFRED ; KAULE WITTICH ; MAYER KARLHEINZ

Agent(s): ZEUNER SUMMERER STUETZ; ZEUNER AND SUMMERER

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AT547259 E	20120315	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102005003958 A1	20060803	LSPB	+	published / reissued	

DE102005003958 A1	20120105	LSSES	+R012	REQUEST FOR EXAMINATION VALIDLY FILED	EFFECTIVE DATE : 20111110
DE102005003958 A1	20130910	LSRV	-R002	REFUSAL DECISION IN EXAMINATION/REGISTRATION PROCEEDINGS	
DE102005003958 A1	20131114	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON- PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20130801
EP1843901 A1	20071017	LSPB	+	published / reissued	
EP1843901 A1	20071017	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070827
EP1843901 A1	20081210	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20081107
EP1843901 A1	20130828	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20130729
EP1843901 A1	20140108	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D TEXT : NOT ENGLISH
EP1843901 A1	20140115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1843901 A1	20140129	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D TEXT : LANGUAGE OF EP DOCUMENT: GERMAN
EP1843901 A1	20140215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 648470 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20140215
EP1843901 A1	20140220	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502006013486 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140220
EP1843901 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20140225 YEAR OF FEE PAYMENT : 9
EP1843901 A1	20140521	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20140108
EP1843901 A1	20140625	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP1843901 A1	20140731	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : GIESECKE & DEVRIENT G.M.B.H. EFFECTIVE DATE : 20140131
EP1843901 A1	20140731	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 : 20140108
EP1843901 A1	20140731	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 : 20140508
EP1843901 A1	20140829	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 : 20140108
EP1843901 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140508
EP1843901 A1	20140829	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 : 20140108
EP1843901 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20140829	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 : 20140508
EP1843901 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20140930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LV NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20141009	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502006013486 COUNTRY OF REF DOCUMENT : DE

EP1843901 A1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20141105	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1843901 A1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20141217	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20141009
EP1843901 A1	20150115	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502006013486 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20141009
EP1843901 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140123
EP1843901 A1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140131

EP1843901 A1	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20150901	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP1843901 A1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150123
EP1843901 A1	20151130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150124
EP1843901 A1	20160121	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
EP1843901 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160131 YEAR OF FEE PAYMENT : 11
EP1843901 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160121 YEAR OF FEE PAYMENT : 11
EP1843901 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160122 YEAR OF FEE PAYMENT : 11
EP1843901 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140108
EP1843901 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20160120 YEAR OF FEE PAYMENT : 11
EP1843901 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160122 YEAR OF FEE PAYMENT : 11
EP1843901 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160121 YEAR OF FEE PAYMENT : 11
EP1843901 A1	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140409
EP1843901 A1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM	COUNTRY OF REF DOCUMENT : TR NOTIFICATION OF LAPSE :

				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 : 20140108
EP1843901 A1	20160729	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; INVALID AB INITIO LAPSED DATE : 20060123
EP1843901 A1	20160729	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 : 20140123
EP1843901 A1	20170124	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 : 12
EP1843901 B1	20140108	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2284015 A1	20110216	LSPB	+	published / reissued	
EP2284015 A1	20110518	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110406
EP2284015 A1	20110817	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATION SCHEME : IPC CLASSIFICATION SYMBOL : B42D 15/00 20060101AFI20110714BHEP
EP2284015 A1	20110817	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATION SCHEME : IPC CLASSIFICATION SYMBOL : B41M 3/14 20060101ALN20110714BHEP
EP2284015 A1	20120215	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	PARTY TYPE : OWNER OWNER : GIESECKE & DEVRIENT GMBH
EP2284015 A1	20120229	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2284015 A1	20120229	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D TEXT : NOT ENGLISH
EP2284015 A1	20120315	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 547259 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20120315
EP2284015 A1	20120328	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D TEXT : LANGUAGE OF EP DOCUMENT : GERMAN
EP2284015 A1	20120419	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502006011062 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120419

EP2284015 A1	20120627	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20120229
EP2284015 A1	20120725	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	REF COUNTRY CODE : EP EFFECTIVE DATE : 20120229
EP2284015 A1	20120731	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 : 20120229
EP2284015 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120229
EP2284015 A1	20120731	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 : 20120629
EP2284015 A1	20120831	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 : 20120229
EP2284015 A1	20120831	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 : 20120629
EP2284015 A1	20120831	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 : 20120229
EP2284015 A1	20120831	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 : 20120530
EP2284015 A1	20120926	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FD4D
EP2284015 A1	20120928	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

EP2284015 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	LAPSED DATE : 20120229 COUNTRY OF REF DOCUMENT : IE 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 : 20120229
EP2284015 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120229
EP2284015 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120229
EP2284015 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : RO NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120229
EP2284015 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : PL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120229
EP2284015 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120229
EP2284015 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120229
EP2284015 A1	20130206	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20121130
EP2284015 A1	20130328	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502006011062 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20121130
EP2284015 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : ES NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120609

EP2284015 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20130116 YEAR OF FEE PAYMENT : 8
EP2284015 A1	20130430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20130122 YEAR OF FEE PAYMENT : 8
EP2284015 A1	20130731	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : GIESECKE & DEVRIENT G.M.B.H. EFFECTIVE DATE : 20130131
EP2284015 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20120529
EP2284015 A1	20130830	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 : 20130131
EP2284015 A1	20131031	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 NON- PAYMENT OF DUE FEES LAPSED DATE : 20130131
EP2284015 A1	20140923	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP2284015 A1	20141031	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 NON- PAYMENT OF DUE FEES LAPSED DATE : 20140123
EP2284015 A1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 20140124
EP2284015 A1	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 : 20120229
EP2284015 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON- PAYMENT OF DUE FEES LAPSED DATE : 20130123
EP2284015 A1	20150731	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; INVALID AB INITIO LAPSED DATE : 20060123
EP2284015 A1	20160121	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

EP2284015 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20160122 YEAR OF FEE PAYMENT : 11
EP2284015 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160131 YEAR OF FEE PAYMENT : 11
EP2284015 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20160121 YEAR OF FEE PAYMENT : 11
EP2284015 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160122 YEAR OF FEE PAYMENT : 11
EP2284015 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20160120 YEAR OF FEE PAYMENT : 11
EP2284015 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160121 YEAR OF FEE PAYMENT : 11
EP2284015 A1	20170124	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 : 12
EP2284015 B1	20120229	LSGT	+	granted / extensions (spc, cpc, pte)	
WO06079489 A1	20060803	LSPB	+	published / reissued	
WO06079489 A1	20070614	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006706357 COUNTRY OF REF DOCUMENT : EP
WO06079489 A1	20071017	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2006706357 COUNTRY OF REF DOCUMENT : EP

Title: SECURITY STRIP AND SECURITY PAPER

Abstract: Source: US2009302595A The invention relates to a security strip and security paper for obtaining security documents such as legal tender notes, checks or identification documents, comprising a cellulose support web that is completely embedded in a pulp substrate. As both the substrate and the support web are formed by plant fibers, a series of physical and chemical bonds are established between the fibers of both elements, the support web thus being perfectly integrated in the pulp. The cellulose support web will sometimes have a series of security elements, such as pigments, synthetic elements and/or security fibers of the type normally used in this type of application.

Classifications:

International (IPC 8-9): B42D15/00 B42D15/10 D21H21/42

D21H21/48 (Advanced/Invention);

B42D15/00 B42D15/10 D21H21/40 (Core/Invention);

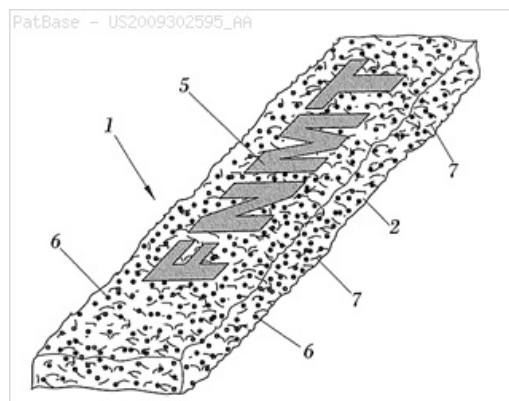
B42D D21H (Subclass/Invention)

International (IPC 1-7): B42D15/00 D21H21/42 D21H21/48

CPC: D21H21/48 B42D25/355 D21H21/42 B42D25/00

European: B42D15/00C4 B42D15/10 D21H21/42 D21H21/48

US: 283/72 283/72S 283/82 283/82P



Family:

Publication number	Publication date	Application number	Application date
BRPI0520044 A2	20090414	BR2005PI20044	20051230
CA2600620 AA	20070907	CA20052600620	20051230
DE602005044801 D1	20141106	DE200560044801T	20051230
DE602005045192 D1	20141224	DE200560045192T	20051230
EG25229 A	20111117	EG20070000957	20070910
EP1872965 A1	20080102	EP20050850062	20051230
EP1872965 A4	20100303	EP20050850062	20051230
EP1872965 B1	20140924	EP20050850062	20051230
EP2527159 A2	20121128	EP20120180651	20051230
EP2527159 A3	20130424	EP20120180651	20051230
EP2527159 B1	20141112	EP20120180651	20051230
ES2264372 AA	20061216	ES20050000563	20050310
ES2264372 BA	20071201	ES20050000563	20050310
ES2516645 T3	20141031	ES20050850062T	20051230
ES2528908 T3	20150213	ES20120180651T	20051230
HK1117108 A1	20150206	HK20080106573	20080613
HK1117108 A3	20090109	HK20080106573	20080613
HK1178127 A1	20150619	HK20130105186	20130429
KR20080005916 A	20080115	KR20077020741	20070910
MA29382 B1	20080401	MA20070030279	20071008
PT1872965 T	20141015	PT20050850062T	20051230
PT2527159 T	20150206	PT20120180651T	20051230
RU2007137497 A	20090420	RU20070137497	20051230
RU2397874 C2	20100827	RU20070137497	20051230
US2009302595 AA	20091210	US20080908255	20080923
WO06095033 A1	20060914	WO2005ES00712	20051230

Priority:

EP20050850062 20051230 EP20120180651 20051230 WO2005ES00712 20051230
 ES20050000563 20050310

Probable Assignee: NACIONAL DE MONEDA Y TIMBRE FAB

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

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
BRPI0520044 A2	20090414	LSPB	+	published / reissued	
BRPI0520044 A2	20170214	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
CA2600620 AA	20070907	LSPB	+	published / reissued	
CA2600620 AA	20070907	LSNP	+AFNE	NATIONAL PHASE ENTRY	
CA2600620 AA	20101119	LSES	+EEER	EXAMINATION REQUEST	
CA2600620 AA	20101206	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20101119
CA2600620 AA	20131215	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20131018
EG25229 A	20111117	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1872965 A1	20080102	LSPB	+	published / reissued	
EP1872965 A1	20080102	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20071010
EP1872965 A1	20100303	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20100129
EP1872965 A1	20100922	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100818
EP1872965 A1	20140514	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20140422
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EP1872965 A1	20140930	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1872965 A1	20141015	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 688435 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20141015
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EP1872965 A1	20141031	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2516645 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) : EFFECTIVE DATE : 20141031
EP1872965 A1	20141106	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602005044801

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EP1872965 A1	20141127	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20140401962 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20141017
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EP1872965 A1	20150130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : TR PAYMENT DATE : 20141014 YEAR OF FEE PAYMENT : 10
EP1872965 A1	20150206	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1117108 COUNTRY OF REF DOCUMENT : HK
EP1872965 A1	20150225	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP1872965 A1	20150225	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20140924
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EP1872965 A1	20150430	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 : 20140924
EP1872965 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20141028 YEAR OF FEE PAYMENT : 10
EP1872965 A1	20150622	LSOP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R026 REF DOCUMENT NUMBER : 602005044801 COUNTRY OF REF DOCUMENT : DE
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EP1872965 A1	20150729	LSOP	-26	OPPOSITION FILED	PARTYTYPE : OPPONENT OPPONENT : DE LA RUE INTERNATIONAL LIMITED EFFECTIVE DATE : 20150624
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EP1872965 A1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141230
EP1872965 A1	20151217	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 11
EP1872965 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20151231 YEAR OF FEE PAYMENT : 11
EP1872965 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151229 YEAR OF FEE PAYMENT : 11
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EP1872965 A1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20151210 YEAR OF FEE PAYMENT : 11
EP1872965 A1	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE

				NAT. OFFICE TO EPO	PREScribed TIME-LIMIT LAPSED DATE : 20140924
EP1872965 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20151021 YEAR OF FEE PAYMENT : 11
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EP1872965 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151216 YEAR OF FEE PAYMENT : 11
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EP1872965 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20161229 YEAR OF FEE PAYMENT : 12
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EP1872965 A1	20170131	LSFE	+PGFP	POSTGRANT:	COUNTRY OF REF DOCUMENT : CZ

EP1872965 B1	20140924	LSGT	+	ANNUAL FEES PAID TO NATIONAL OFFICE granted / extensions (spc, cpc, pte)	PAYMENT DATE : 20161208 YEAR OF FEE PAYMENT : 12
EP2527159 A2	20121128	LSPB	+	published / reissued	
EP2527159 A2	20130424	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B42D 15/00 20060101AFI20130318BHEP
EP2527159 A2	20130424	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : D21H 21/42 20060101ALI20130318BHEP
EP2527159 A2	20130424	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : D21H 21/48 20060101ALI20130318BHEP
EP2527159 A2	20131204	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20131024
EP2527159 A2	20140924	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20140829
EP2527159 A2	20141029	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20141002
EP2527159 A2	20141112	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2527159 A2	20141114	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
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EP2527159 A2	20141203	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2527159 A2	20141224	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602005045192 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20141224
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EP2527159 A2	20150424	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20150400295 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20150318
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				INFORM. FROM NAT. OFFICE TO EPO	OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20150312
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EP2527159 A2	20150529	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 : 20141112
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EP2527159 A2	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141112
EP2527159 A2	20150619	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1178127 COUNTRY OF REF DOCUMENT : HK
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EP2527159 A2	20150731	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 : 20141112
EP2527159 A2	20150731	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 : 20141112
EP2527159 A2	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141112
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EP2527159 A2	20150812	LSOP	REG	REFERENCE TO A	REF COUNTRY CODE : DE

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EP2527159 A2	20151221	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
EP2527159 A2	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20151223 YEAR OF FEE PAYMENT : 11
EP2527159 A2	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20151217 YEAR OF FEE PAYMENT : 11
EP2527159 A2	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20151210 YEAR OF FEE PAYMENT : 11
EP2527159 A2	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151221 YEAR OF FEE PAYMENT : 11
EP2527159 A2	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20141112
EP2527159 A2	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20151116 YEAR OF FEE PAYMENT : 11
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EP2527159 A2	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20151228 YEAR OF FEE PAYMENT : 11
EP2527159 A2	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151221 YEAR OF FEE PAYMENT : 11
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EP2527159 A2	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20151214 YEAR OF FEE PAYMENT : 11
EP2527159 A2	20160309	LSAS	RAP2	TRANSFER OF RIGHTS OF AN EP GRANTED PATENT	PARTY TYPE : OWNER OWNER : FABRICA NACIONAL DE MONEDA Y TIMBRE - REAL CASA DE
EP2527159 A2	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151216 YEAR OF FEE PAYMENT : 11
EP2527159 A2	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20151209 YEAR OF FEE PAYMENT : 11
EP2527159 A2	20160515	LSPB	REG	REFERENCE TO A	REF COUNTRY CODE : AT

				NATIONAL CODE	REF LEGAL EVENT CODE : UEP REF DOCUMENT NUMBER : 695501 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20141112
EP2527159 A2	20160531	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 : 20141112
EP2527159 A2	20160729	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; INVALID AB INITIO LAPSED DATE : 20051230
EP2527159 A2	20160729	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 : 20141230
EP2527159 A2	20161222	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 : 12
EP2527159 A2	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20161227 YEAR OF FEE PAYMENT : 12
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EP2527159 A2	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161215 YEAR OF FEE PAYMENT : 12
EP2527159 A2	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20161222 YEAR OF FEE PAYMENT : 12
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EP2527159 B1	20141112	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2264372 AA	20061216	LSPB	+	published / reissued	
ES2264372 AA	20061216	LSSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 20061216 KIND CODE OF REF DOCUMENT : A1
ES2264372 AA	20071201	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2264372B1 COUNTRY OF REF DOCUMENT : ES
ES2264372 BA	20071201	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2516645 T3	20141031	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2528908 T3	20150213	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1117108 A1	20150206	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1117108 A3	20090109	LSPB	+	published / reissued	
HK1178127 A1	20150619	LSGT	+	granted /	

KR20080005916 A	20080115	LSPB	+	extensions (spc, cpc, pte) published / reissued	
KR20080005916 A	20101224	LSSES	A201	REQUEST FOR EXAMINATION	
KR20080005916 A	20120724	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20080005916 A	20130528	LSRV	-E90F	NOTIFICATION OF REASON FOR FINAL REFUSAL	
KR20080005916 A	20140325	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR20080005916 A	20140618	LSRE	AMND	AMENDMENT	
MA29382 B1	20080401	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1872965 T	20141015	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2527159 T	20150206	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2007137497 A	20090420	LSPB	+	published / reissued	
RU2397874 C2	20100827	LSGT	+	granted / extensions (spc, cpc, pte)	
US2009302595 AA	20091210	LSPB	+	published / reissued	
US2009302595 AA	20080923	LSAS	AS	ASSIGNMENT	OWNER NAME : FABRICA NACIONAL DE MONEDA Y TIMBRE, SPAIN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: GOMEZ ESTELLA, MARIA JESUS; BARAJA CARRACEDO, JAVIER; RUBIO SANZ, JUAN ANTONIO; AND OTHERS; REEL/FRA:021569/0958 EFFECTIVE DATE : 20071023
WO06095033 A1	20060914	LSPB	+	published / reissued	
WO06095033 A1	20070907	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2007/010999 COUNTRY OF REF DOCUMENT : MX
WO06095033 A1	20070907	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2600620 COUNTRY OF REF DOCUMENT : CA
WO06095033 A1	20070910	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12007501966 COUNTRY OF REF DOCUMENT : PH
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WO06095033 A1	20071010	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007137497 COUNTRY OF REF DOCUMENT : RU
WO06095033 A1	20071010	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005850062 COUNTRY OF REF DOCUMENT : EP
WO06095033 A1	20080102	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005850062 COUNTRY OF REF DOCUMENT : EP
WO06095033 A1	20080923	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11908255 COUNTRY OF REF DOCUMENT : US
WO06095033 A1	20090414	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0520044 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2

Title: SECURITY MARK

Abstract: Source: US2010148050A A security mark (130) that comprises a metamaterial such that properties of the metamaterial provides authentication of the security mark (130). The metamaterial may have a negative refractive index. An article may be secured by applying the metamaterial to the article such that properties of the metamaterial authenticate the article. The metamaterial may be arranged to form an image (160) when illuminated by terahertz radiation.

Classifications:

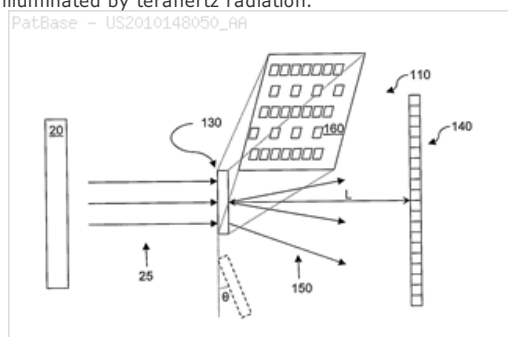
International (IPC 8-9): B82Y20/00 G02B1/00 G06K7/10 G06K9/00 G07D7/00 G07D7/12 H01Q15/00 (Advanced/Invention);

G06K7/10 G06K9/00 G07D7/00 H01Q15/00 (Core/Invention)

CPC: G07D7/0046 B82Y20/00 G02B1/007 G07D7/12 H01Q15/0086

European: B82Y20/00 G02B1/00M3 G07D7/00F G07D7/12 H01Q15/00C

US: 250/271 250/271P 382/100 382/100S



Family:

Publication number	Publication date	Application number	Application date
EP2171695 A1	20100407	EP20080718666	20080310
GB200704642 A0	20070418	GB20070004642	20070309
US2010148050 AA	20100617	US20080530608	20080310
WO08110775 A1	20080918	WO2008GB00820	20080310

Priority:

GB20070004642 20070309 WO2008GB00820 20080310

Probable Assignee: STREP LTD

Assignee(s): (std): BARI MAZHAR ALI ; SANDS HOWARD SIMON ; STREP LTD

Assignee(s): STREP LIMITED

Inventor(s): (std): BARI MAZHAR ALI

Agent(s): FROST ALEX JOHN; HAYNES AND BOONE LLP IP SECTION; FROST ALEX JOHN ET AL

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP2171695 A1	20100407	LSPB	+	published / reissued	
EP2171695 A1	20100407	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100119
EP2171695 A1	20110831	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : G07D 7/12 20060101AFI20110722BHEP
EP2171695 A1	20110831	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : G02B 1/00 20060101ALI20110722BHEP
EP2171695 A1	20110831	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B82Y 20/00 20110101ALI20110722BHEP
EP2171695 A1	20110831	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : H01Q 15/00 20060101ALI20110722BHEP
EP2171695 A1	20111019	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20110919
EP2171695 A1	20120926	LSDW	-18D	DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20120330
EP2171695 A1	20161007	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : WD REF DOCUMENT NUMBER : 1142984 COUNTRY OF REF DOCUMENT : HK

GB200704642 A0	20080402	LSAS	COOA	CHANGE IN APPLICANT'S NAME OR OWNERSHIP OF THE APPLICATION	
GB200704642 A0	20081105	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
US2010148050 AA	20100617	LSPB	+	published / reissued	
WO08110775 A1	20080918	LSPB	+	published / reissued	
WO08110775 A1	20090910	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO08110775 A1	20100218	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12530608 COUNTRY OF REF DOCUMENT : US

Title: INSERTION OF AN ELONGATE ELEMENT INTO A FIBROUS SUBSTRATE

Abstract: Source: US2006016557A This invention is directed to improvements in manufacturing substrates, such as paper, incorporating an elongate element (13), to a method of and apparatus for making such paper and to documents made therefrom. The method comprises the steps of depositing fibres onto a moving support surface (10) to form a substrate (14) and introducing an elongate element (13) such that it is at least partially embedded in the substrate (14). Information pertaining to the location of a control feature of the elongate element (18) and the location of the substrate (17) are monitored and provided to a controller (16), which controls the tension of the elongate element (13) as it is introduced into the substrate (14). The location information is used to control the rate at which the elongate element is introduced so that the elongate element control feature is in registration with at least one control feature of the substrate (14).

Classifications:

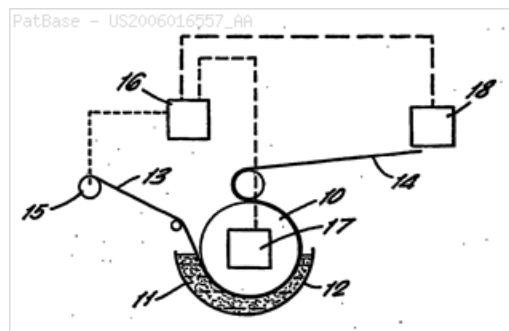
International (IPC 8-9): B29C65/00 B42D15/10 D21F1/44 D21F11/10 D21H21/42 (Advanced/Invention); B29C65/00 B42D15/10 D21F1/00 D21F11/00 D21H21/40 (Core/Invention)

International (IPC 1-7): B42D15/00 D21F11/06 D21F11/10 D21F7/06 D21H21/42

CPC: D21F1/44 D21H21/42

European: D21F1/44 D21H21/42

US: 156/290



Family:

Publication number	Publication date	Application number	Application date
AT403032 E	20080815	AT20030778554T	20031202
AU2003285556 AA	20040623	AU20030285556	20031202
DE60322574 D1	20080911	DE20036022574	20031202
EP1567714 A1	20050831	EP20030778554	20031202
EP1567714 B1	20080730	EP20030778554	20031202
ES2309372 T3	20081216	ES20030778554T	20031202
GB200228424 A0	20030108	GB20020028424	20021205
GB2395959 A1	20040609	GB20020028424	20021205
GB2395959 B2	20041110	GB20020028424	20021205
RU2005121149 A	20060510	RU20050121149	20031202
RU2312947 C2	20071220	RU20050121149	20031202
SI1567714 T1	20081231	SI20030031406T	20031202
US2006016557 AA	20060126	US20050536030	20050628
WO04050991 A1	20040617	WO2003GB05196	20031202

Priority:

EP20030778554 20031202 GB20020028424 20021205 WO2003GB05196 20031202

Probable Assignee: DE LA RUE INT LTD

Assignee(s): (std): RUE DE INT LTD ; HENDERSON PETER MCLEAN ; HOWLAND PAUL ; HENDERSON PETER M ; LJA RJU INTERNEHSHNL LTD DE

Assignee(s): LA RUE INTERNATIONAL DE LIMITED ; DE LA RUE INT ; DE LA RUE INT LTD ; DE LA RUE INTERNATIONAL LIMITED ; DE LA RUE INTERNATIONAL LTD ; DE LJA RJU INTERNEHSHNL LIMITED ; DE LJA RJU INTERNEHSHNL LTD

Inventor(s): (std): HENDERSON PETER ; HENDERSON PETER M ; HENDERSON PETER MCLEAN ; HOWLAND PAUL ; KHAULEHND POL ; KHENDERSON PITER MAKLIN

Inventor(s): PAUL HOWLAND ; PETER MCLEAN HENDERSON

Agent(s): BUCKS TERESA ANNE ET AL; DYKEMA GOSSETT PLLC

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 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
AT403032 E	20080815	LSGT	+	granted / extensions (spc, cpc, pte)	
AT403032 E	20090115	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AU2003285556 AA	20040623	LSPB	+	published / reissued	

AU2003285556 AA	20050825	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
DE60322574 D1	20090820	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
EP1567714 A1	20050831	LSPB	+	published / reissued	
EP1567714 A1	20050831	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20050526
EP1567714 A1	20071003	LSAS	RAP1	TRANSFER OF RIGHTS OF AN EP PUBLISHED APPLICATION	PARTYTYPE : OWNER OWNER : DE LA RUE INTERNATIONAL LIMITED
EP1567714 A1	20080730	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1567714 A1	20080731	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1567714 A1	20080917	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1567714 A1	20081216	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2309372 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1567714 A1	20090126	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	REF COUNTRY CODE : EP EFFECTIVE DATE : 20080730
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EP1567714 A1	20090227	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 : 20080730
EP1567714 A1	20090331	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 : 20080730
EP1567714 A1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080730

EP1567714 A1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080730
EP1567714 A1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080730
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EP1567714 A1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080730
EP1567714 A1	20090708	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20090506
EP1567714 A1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20081231
EP1567714 A1	20090916	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1567714 A1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20081202
EP1567714 A1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080730
EP1567714 A1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : HU NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090131
EP1567714 A1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20081202
EP1567714 A1	20100831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080730
EP1567714 A1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

EPO				LAPSED DATE : 20081031	
EP1567714 A1	20151110	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 13
EP1567714 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20151211 YEAR OF FEE PAYMENT : 13
EP1567714 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20151111 YEAR OF FEE PAYMENT : 13
EP1567714 A1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : SI PAYMENT DATE : 20151105 YEAR OF FEE PAYMENT : 13
EP1567714 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20151221 YEAR OF FEE PAYMENT : 13
EP1567714 A1	20161111	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 14
EP1567714 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20161111 YEAR OF FEE PAYMENT : 14
EP1567714 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20161212 YEAR OF FEE PAYMENT : 14
EP1567714 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20161130 YEAR OF FEE PAYMENT : 14
EP1567714 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161129 YEAR OF FEE PAYMENT : 14
EP1567714 A1	20170131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20161213 YEAR OF FEE PAYMENT : 14
EP1567714 B1	20080730	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2309372 T3	20081216	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2395959 A1	20040609	LSPB	+	published / reissued	
GB2395959 A1	20110831	LSRV	S73	REVOCATION ON COMPTROLLER'S INITIATIVE (SECTION 73/PATENTS ACT 1977)	DESCRIPTION : PATENT REVOKED; PATENT REVOKED UNDER SECTION 73(2) ON 08.08.2011
GB2395959 B2	20041110	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2005121149 A	20060510	LSPB	+	published / reissued	
RU2312947 C2	20071220	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2312947 C2	20120927	LSLE	-MM4A	THE PATENT IS INVALID DUE TO NON-PAYMENT OF FEES	EFFECTIVE DATE : 20111203
SI1567714 T1	20081231	LSGT	+	granted / extensions (spc, cpc, pte)	
US2006016557 AA	20060126	LSPB	+	published / reissued	

US2006016557 AA	20050628	LSAS	AS	ASSIGNMENT	OWNER NAME : DE LA RUE INTERNATIONAL LIMITED, GREAT BRITAIN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HOWLAND, PAUL; HENDERSON, PETER M.; REEL/FRADE:016727/0991; SIGNING DATES FROM 20050520 TO 20050606
WO04050991 A1	20040617	LSPB	+	published / reissued	
WO04050991 A1	20050526	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003778554 COUNTRY OF REF DOCUMENT : EP
WO04050991 A1	20050628	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2006016557 COUNTRY OF REF DOCUMENT : US KIND CODE OF REF DOCUMENT : A1
WO04050991 A1	20050628	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10536030 COUNTRY OF REF DOCUMENT : US
WO04050991 A1	20050705	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2005121149 COUNTRY OF REF DOCUMENT : RU KIND CODE OF REF DOCUMENT : A
WO04050991 A1	20050831	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2003778554 COUNTRY OF REF DOCUMENT : EP
WO04050991 A1	20060126	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10536030 COUNTRY OF REF DOCUMENT : US
WO04050991 A1	20061107	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO04050991 A1	20061107	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : JP
WO04050991 A1	20080730	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2003778554 COUNTRY OF REF DOCUMENT : EP

Title: SECURITY FEATURE AND METHOD FOR MANUFACTURING THE SAME

Abstract: Source: US2010164217A A method for manufacturing a security feature for a security element, a security paper or a data carrier that exhibits a substrate into which at least one through opening and at least one marking in registration with the through opening are to be introduced.

Classifications:

International (IPC 8-9): B41J2/47 B41M3/14 B41M5/24 B41M5/26 B41M5/28 B42D15/00 B42D15/10 B44F1/12 D21H21/40

G06K19/073 (Advanced/Invention);

B41J2/435 B41M3/14 B41M5/24 B41M5/26 B41M5/28 B42D15/00

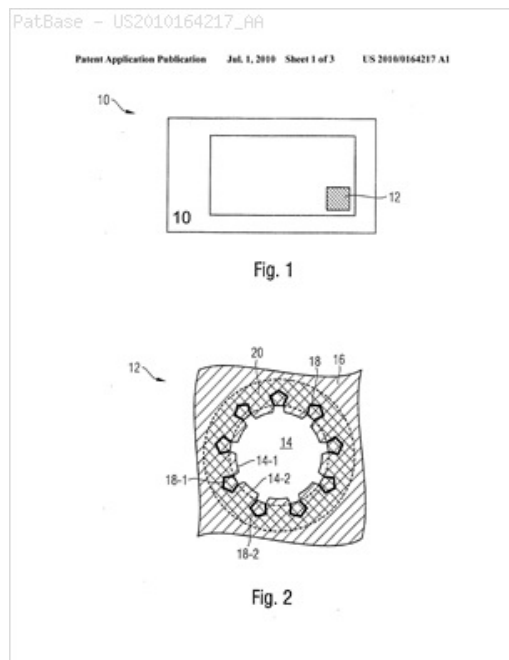
B42D15/10 B44F1/00 D21H21/40 G06K19/073 (Core/Invention);

B41M B42D (Subclass/Invention)

CPC: B42D25/29 B41M3/14 B41M5/24 B41M5/267 B41M5/28

European: B41M3/14 B41M5/24 B42D15/00C L41M5/26L L41M5/28

US: 283/114 283/72 283/74 283/74P 283/85 283/86 283/91 347/262 347/262S



Family:

Publication number	Publication date	Application number	Application date
AT520537 E	20110915	AT20080773511T	20080619
AT542678 E	20120215	AT20080773509T	20080619
CN101754862 A	20100623	CN200880023010	20080619
CN101754862 B	20130327	CN200880023010	20080619
DE102007036622 A1	20090108	DE200710036622	20070802
DE102007036623 A1	20090108	DE200710036623	20070802
DE502008004543 D1	20111013	DE200850004543T	20080619
DE502008006198 D1	20120322	DE200850006198T	20080619
EP2164707 A1	20100324	EP20080773509	20080619
EP2164707 B1	20120125	EP20080773509	20080619
EP2164708 A1	20100324	EP20080773511	20080619
EP2164708 B1	20110817	EP20080773511	20080619
PL2164707 T3	20120731	PL20080773509T	20080619
RU2010102122 A	20110810	RU20100102122	20080619
RU2464177 C2	20121020	RU20100102122	20080619
US2010164217 AA	20100701	US20080665214	20080619
US8573650 BB	20131105	US20080665214	20080619
WO09003587 A1	20090108	WO2008EP04921	20080619
WO09003588 A1	20090108	WO2008EP04923	20080619
ZA201000737 A	20101027	ZA20100000737	20100201

Priority:

DE200710030946 20070703	DE200710036622 20070802	WO2008EP04921 20080619
DE200710036623 20070802	EP20080773511 20080619	EP20080773509 20080619
WO2008EP04923 20080619		

Probable Assignee: GIESECKE AND DEVRIENT GMBH

Assignee(s): (std): GIESECKE AND DEVRIENT GMBH ; GREGAREK ANDRE ; HEIM MANFRED ; WIEDNER BERNHARD

Inventor(s): (std): ANDRE GREGAREK ; BERNHARD WIEDNER ; GREGAREK ANDRE ; HEIM MANFRED ; MANFRED HEIM ; WIEDNER BERNHARD ; GREGAREK ANDR

Agent(s): ZEUNER SUMMERER STUETZ PATENT U RECHTSANWALT PART MBB; ZEUNER SUMMERER STUETZ; WEBB LAW FIRM PC; WEBB LAW FIRM; ZEUNER STEFAN

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

Patent	Date recorded	Event group	Code	Event	Details
AT520537 E	20110915	LSGT	+	granted / extensions (spc, cpc, pte)	
AT542678 E	20120215	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101754862 A	20100623	LSPB	+	published / reissued	
CN101754862 A	20100623	LSPB	+C06	PUBLICATION	
CN101754862 A	20130327	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101754862 B	20130327	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102007036622 A1	20090108	LSPB	+	published / reissued	
DE102007036622 A1	20140528	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20140301
DE102007036623 A1	20090108	LSPB	+	published / reissued	
DE102007036623 A1	20140528	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20140301
EP2164707 A1	20100324	LSPB	+	published / reissued	
EP2164707 A1	20100324	LSER	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100203
EP2164707 A1	20100602	LSER	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100503
EP2164707 A1	20110223	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B41M 3/14 20060101AFI20110117BHEP
EP2164707 A1	20110223	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B41M 5/24 20060101ALI20110117BHEP
EP2164707 A1	20110223	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B42D 15/00 20060101ALI20110117BHEP
EP2164707 A1	20120125	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D DESCRIPTION : NOT ENGLISH
EP2164707 A1	20120131	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2164707 A1	20120215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 542678 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20120215
EP2164707 A1	20120229	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2164707 A1	20120322	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502008006198 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120322
EP2164707 A1	20120411	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3

EP2164707 A1	20120625	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	EFFECTIVE DATE : 20120125
EP2164707 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IS DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120525
EP2164707 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120425
EP2164707 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BG DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120425
EP2164707 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20120626 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20120622 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20120630 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20120626 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120815	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FD4D
EP2164707 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120525
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EP2164707 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING	REF COUNTRY CODE : GR DESCRIPTION : LAPSE BECAUSE OF

EP2164707 A1	20120831	LSLE	-PG25	STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120426
EP2164707 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LV DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120705 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20120622 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120705 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20120621 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20120614 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20120614 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20120928	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120625 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20120928	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120625 YEAR OF FEE PAYMENT : 05
EP2164707 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
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EP2164707 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING	REF COUNTRY CODE : CZ DESCRIPTION : LAPSE BECAUSE OF

				STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : RO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20130102	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20121026
EP2164707 A1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20120630
EP2164707 A1	20130221	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502008006198 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20121026
EP2164707 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : ES DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120506
EP2164707 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20120630
EP2164707 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20130621 YEAR OF FEE PAYMENT : 06
EP2164707 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130619 YEAR OF FEE PAYMENT : 06
EP2164707 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20130630 YEAR OF FEE PAYMENT : 06
EP2164707 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES	REF COUNTRY CODE : SE PAYMENT DATE : 20130619

EP2164707 A1	20130830	LSFE	+PGFP	PAID TO NATIONAL OFFICE POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	YEAR OF FEE PAYMENT : 06 REF COUNTRY CODE : PL PAYMENT DATE : 20130524 YEAR OF FEE PAYMENT : 06
EP2164707 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20130619 YEAR OF FEE PAYMENT : 06
EP2164707 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20130627 YEAR OF FEE PAYMENT : 06
EP2164707 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130703 YEAR OF FEE PAYMENT : 06
EP2164707 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : TR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120125
EP2164707 A1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LU DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20120619
EP2164707 A1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HU DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20080619
EP2164707 A1	20140731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140620 YEAR OF FEE PAYMENT : 07
EP2164707 A1	20140815	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MM01 REF DOCUMENT NUMBER : 542678 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20130619
EP2164707 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20140623 YEAR OF FEE PAYMENT : 07
EP2164707 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20140618 YEAR OF FEE PAYMENT : 07
EP2164707 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140630 YEAR OF FEE PAYMENT : 07
EP2164707 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20140624 YEAR OF FEE PAYMENT : 07
EP2164707 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20140620 YEAR OF FEE PAYMENT : 07
EP2164707 A1	20140930	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	REF COUNTRY CODE : PL PAYMENT DATE : 20140612 YEAR OF FEE PAYMENT : 07

				NATIONAL OFFICE	
EP2164707 A1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : AT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130619
EP2164707 A1	20141128	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20140617 YEAR OF FEE PAYMENT : 07
EP2164707 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 08
EP2164707 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 08
EP2164707 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20150630 YEAR OF FEE PAYMENT : 08
EP2164707 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 08
EP2164707 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20150605 YEAR OF FEE PAYMENT : 08
EP2164707 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 08
EP2164707 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 08
EP2164707 A1	20151231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20150625 YEAR OF FEE PAYMENT : 08
EP2164707 A1	20160621	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2164707 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 09
EP2164707 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20160628 YEAR OF FEE PAYMENT : 09
EP2164707 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 09
EP2164707 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 09
EP2164707 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 09
EP2164707 A1	20160831	LSFE	+PGFP	POSTGRANT:	REF COUNTRY CODE : PL

				ANNUAL FEES PAID TO NATIONAL OFFICE	PAYMENT DATE : 20160608 YEAR OF FEE PAYMENT : 09
EP2164707 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20160630 YEAR OF FEE PAYMENT : 09
EP2164707 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 09
EP2164707 B1	20120125	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2164708 A1	20100324	LSPB	+	published / reissued	
EP2164708 A1	20100324	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100203
EP2164708 A1	20100602	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100503
EP2164708 A1	20110223	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B41M 3/14 20060101AFI20110117BHEP
EP2164708 A1	20110223	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B41M 5/24 20060101ALI20110117BHEP
EP2164708 A1	20110223	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B42D 15/00 20060101ALI20110117BHEP
EP2164708 A1	20110817	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D DESCRIPTION : NOT ENGLISH
EP2164708 A1	20110831	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2164708 A1	20110914	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D DESCRIPTION : LANGUAGE OF EP DOCUMENT: GERMAN
EP2164708 A1	20111013	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502008004543 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20111013
EP2164708 A1	20111207	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20110817
EP2164708 A1	20120125	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	EFFECTIVE DATE : 20110817
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA	REF COUNTRY CODE : GR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY

				POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20111118
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LV DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IS DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20111217
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20111219
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NL DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20111117
EP2164708 A1	20120229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PL DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120314	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FD4D
EP2164708 A1	20120430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : EE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	REF COUNTRY CODE : FI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION

				ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CZ DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : RO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120725	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20120521
EP2164708 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20120630 YEAR OF FEE PAYMENT : 05
EP2164708 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20120622 YEAR OF FEE PAYMENT : 05
EP2164708 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120328
EP2164708 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20120621 YEAR OF FEE PAYMENT : 05
EP2164708 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20120622 YEAR OF FEE PAYMENT : 05
EP2164708 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120705 YEAR OF FEE PAYMENT : 05
EP2164708 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120705 YEAR OF FEE PAYMENT : 05
EP2164708 A1	20120913	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502008004543 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120521
EP2164708 A1	20120928	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120625 YEAR OF FEE PAYMENT : 05
EP2164708 A1	20120928	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120625 YEAR OF FEE PAYMENT : 05

EP2164708 A1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20120630
EP2164708 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20120630
EP2164708 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : ES DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20111128
EP2164708 A1	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BG DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20111117
EP2164708 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20130630 YEAR OF FEE PAYMENT : 06
EP2164708 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20130619 YEAR OF FEE PAYMENT : 06
EP2164708 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20130621 YEAR OF FEE PAYMENT : 06
EP2164708 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130619 YEAR OF FEE PAYMENT : 06
EP2164708 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130703 YEAR OF FEE PAYMENT : 06
EP2164708 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20130626 YEAR OF FEE PAYMENT : 06
EP2164708 A1	20131129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : TR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20110817
EP2164708 A1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	REF COUNTRY CODE : LU DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

				ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	EFFECTIVE DATE : 20120619
EP2164708 A1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HU DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20080619
EP2164708 A1	20140731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140620 YEAR OF FEE PAYMENT : 07
EP2164708 A1	20140815	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MM01 REF DOCUMENT NUMBER : 520537 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20130619
EP2164708 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140630 YEAR OF FEE PAYMENT : 07
EP2164708 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20140623 YEAR OF FEE PAYMENT : 07
EP2164708 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20140624 YEAR OF FEE PAYMENT : 07
EP2164708 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20140620 YEAR OF FEE PAYMENT : 07
EP2164708 A1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : AT DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130619
EP2164708 A1	20141128	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20140617 YEAR OF FEE PAYMENT : 07
EP2164708 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 08
EP2164708 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 08
EP2164708 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 08
EP2164708 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20150630 YEAR OF FEE PAYMENT : 08
EP2164708 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20150623 YEAR OF FEE PAYMENT : 08
EP2164708 A1	20151231	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	REF COUNTRY CODE : IT PAYMENT DATE : 20150625 YEAR OF FEE PAYMENT : 08

NATIONAL OFFICE					
EP2164708 A1	20160621	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2164708 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 09
EP2164708 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20160628 YEAR OF FEE PAYMENT : 09
EP2164708 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 09
EP2164708 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 09
EP2164708 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20160630 YEAR OF FEE PAYMENT : 09
EP2164708 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 09
EP2164708 B1	20110817	LSGT	+	granted / extensions (spc, cpc, pte)	
PL2164707 T3	20120731	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2010102122 A	20110810	LSPB	+	published / reissued	
RU2464177 C2	20121020	LSGT	+	granted / extensions (spc, cpc, pte)	
US2010164217 AA	20100701	LSPB	+	published / reissued	
US2010164217 AA	20100118	LSAS	AS	ASSIGNMENT	OWNER NAME : GIESECKE AND DEVRIENT GMBH,GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GREGAREK, ANDRE; HEIM, MANFRED; WIEDNER, BERNHARD; SIGNED BETWEEN 20091223 AND 20100107; REEL/FRAME:23803/92
US2010164217 AA	20100118	LSAS	AS	ASSIGNMENT	OWNER NAME : GIESECKE AND DEVRIENT GMBH,GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GREGAREK, ANDRE; HEIM, MANFRED; WIEDNER, BERNHARD; SIGNING DATES FROM 20091223 TO 20100107; REEL/FRAME:023803/0092
US8573650 BB	20131105	LSGT	+	granted / extensions (spc, cpc, pte)	
US8573650 BB	20100118	LSAS	AS	ASSIGNMENT	OWNER NAME : GIESECKE AND DEVRIENT GMBH,GERMANY DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GREGAREK, ANDRE; HEIM, MANFRED; WIEDNER, BERNHARD; SIGNING DATES FROM 20091223 TO 20100107; REEL/FRAME:023803/0092
US8573650 BB	20100118	LSAS	AS	ASSIGNMENT	OWNER NAME : GIESECKE AND DEVRIENT GMBH, GERMANY

DESCRIPTION : ASSIGNMENT OF
ASSIGNORS INTEREST;
ASSIGNORS:GREGAREK, ANDRE;
HEIM, MANFRED; WIEDNER,
BERNHARD; SIGNING DATES FROM
20091223 TO 20100107;
REEL/FRA:023803/0092

US8573650 BB	20150922	LSRE	CC	CERTIFICATE OF CORRECTION	
WO09003587 A1	20090108	LSPB	+	published / reissued	
WO09003587 A1	20100105	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO09003588 A1	20090108	LSPB	+	published / reissued	
WO09003588 A1	20091217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12665214 COUNTRY OF REF DOCUMENT : US
WO09003588 A1	20100105	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO09003588 A1	20100203	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010102122 COUNTRY OF REF DOCUMENT : RU
ZA201000737 A	20101027	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: SECURITY AND/OR VALUE DOCUMENT

Abstract: The invention relates to a security and/or value document (1) comprising personalized comprehensive graphic data (2) composed of at least two pieces of partial graphic data (3, 4) that overlap in a direction (R) perpendicular to a main area (H) of the security and/or value document and complement each other to form the comprehensive graphic data, the partial data being represented using identical or different imaging technologies and being copied onto the same or different layers (5, 6) of the security and/or value document. One or more security elements (7) are arranged at least in one subarea of the comprehensive graphic data, above, below, and/or between the layers in a direction (R) perpendicular to a main area of the security and/or value document. The surface of the security and/or value document is formed by a protective layer (8) without a security element.

Classifications:

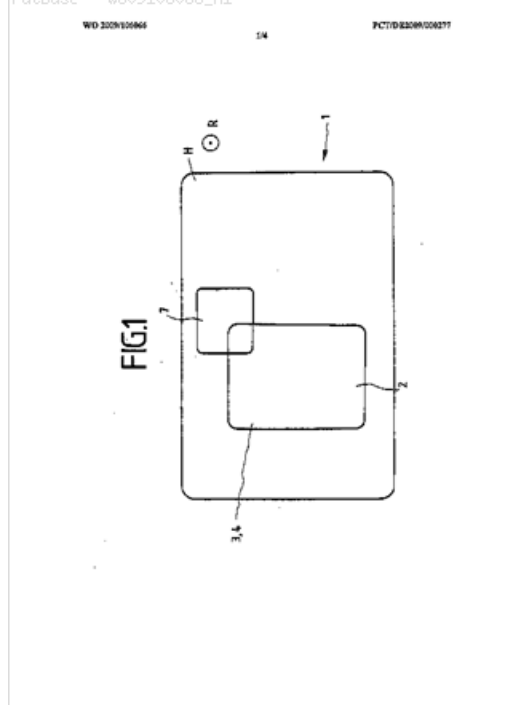
International (IPC 8-9): B41M3/14 B42D15/00 B42D15/10 B42D25/00 B42D25/29 B42D25/41 B44F1/12 (Advanced/Invention);

B41M3/14 B42D15/00 B42D15/10 B44F1/00 (Core/Invention)

CPC: B42D25/00 B42D25/29 B42D25/41

European: B42D15/00C B42D15/10

PatBase - WO09106066_A1



Family:

Publication number	Publication date	Application number	Application date
■ CN101970245 A	20110209	CN200980107464	20090302
■ CN101970245 B	20150520	CN200980107464	20090302
■ DE102008012436 A1	20090903	DE200810012436	20080229
■ DE502009008376 D1	20140116	DE200950008376T	20090302
■ EP2244887 A1	20101103	EP20090713835	20090302
■ EP2244887 B1	20131120	EP20090713835	20090302
■ ES2440547 T3	20140129	ES20090713835T	20090302
■ PT2244887 T	20131223	PT20090713835T	20090302
■ WO09106066 A1	20090903	WO2009DE000277	20090302

Priority:

DE200810012436 20080229 EP20090713835 20090302 WO2009DE000277 20090302

Probable Assignee: BUNDESDRUCKEREI GMBH

Assignee(s): (std): BOSIEN ANDREAS ; BUNDESDRUCKEREI GMBH ; EHREKE JENS ; KRUEGER PER

Inventor(s): (std): ANDREAS BOSIEN ; BOSIEN ANDREAS ; EHREKE JENS ; JENS EHREKE ; KRUEGER PER ; PER KRUEGER

Agent(s): JUNGBLUT AND SEUSS PATENTANWALTE; JUNGBLUT BERNHARD JAKOB; LEHMANN MARIA ISABEL; JUNGBLUT BERNHARD ET AL

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN101970245 A	20110209	LSPB	+	published / reissued	
CN101970245 A	20110209	LSPB	+C06	PUBLICATION	
CN101970245 A	20150520	LSGT	+C14	GRANT OF PATENT	

OR UTILITY MODEL					
CN101970245 B	20150520	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102008012436 A1	20090903	LSPB	+	published / reissued	
DE102008012436 A1	20090903	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE102008012436 A1	20141014	LSWD	-R120	APPLICATION WITHDRAWN OR IP RIGHT ABANDONED	
DE102008012436 A1	20141120	LSWD	-R120	APPLICATION WITHDRAWN OR IP RIGHT ABANDONED	EFFECTIVE DATE : 20141014
EP2244887 A1	20101103	LSPB	+	published / reissued	
EP2244887 A1	20101103	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100603
EP2244887 A1	20101208	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : KRUEGER, PER
EP2244887 A1	20101208	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : BOSIEN, ANDREAS
EP2244887 A1	20101208	LSRE	RIN1	INVENTOR (CORRECTION)	INVENTOR NAME : EHREKE, JENS
EP2244887 A1	20130731	LSGT	+INTG	ANNOUNCEMENT OF INTENTION TO GRANT	EFFECTIVE DATE : 20130703
EP2244887 A1	20131120	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D DESCRIPTION : NOT ENGLISH
EP2244887 A1	20131129	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2244887 A1	20131215	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 641353 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20131215
EP2244887 A1	20131218	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D DESCRIPTION : LANGUAGE OF EP DOCUMENT: GERMAN
EP2244887 A1	20140116	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502009008376 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140116
EP2244887 A1	20140129	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2440547 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 EFFECTIVE DATE : 20140129
EP2244887 A1	20140226	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP2244887 A1	20140404	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20140400183 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20140224
EP2244887 A1	20140425	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2244887 A1	20140430	LSLE	-PG25	LAPSED IN A	REF COUNTRY CODE : NO

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20140220
EP2244887 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20140324 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20140324 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140325 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20140320 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20140227 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20140320 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20140324 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20140225 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LV DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IS DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20140320
EP2244887 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20140328 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20140324 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO	REF COUNTRY CODE : PL PAYMENT DATE : 20140219

				NATIONAL OFFICE	YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20140319 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20140320 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20140320 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140530	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20140226 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20140328 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140324 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20140320 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20140821	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502009008376 COUNTRY OF REF DOCUMENT : DE
EP2244887 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : EE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : RO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20140930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20141029	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20140821
EP2244887 A1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LU DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20140302
EP2244887 A1	20141204	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502009008376 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140821
EP2244887 A1	20150128	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HU REF LEGAL EVENT CODE : AG4A REF DOCUMENT NUMBER : E021365

					COUNTRY OF REF DOCUMENT : HU
EP2244887 A1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20150227	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : HU PAYMENT DATE : 20140225 YEAR OF FEE PAYMENT : 06
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : HU PAYMENT DATE : 20150219 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20150225 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20150324 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20150325 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20150325 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20150323 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20150320 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20150324 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20150223 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150430	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20150223 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20150324 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20150218 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20150320 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20150319 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20150324 YEAR OF FEE PAYMENT : 07

EP2244887 A1	20150529	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20150219 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20150318 YEAR OF FEE PAYMENT : 07
EP2244887 A1	20160229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20160322	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 8
EP2244887 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : ES PAYMENT DATE : 20160322 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20160322 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CZ PAYMENT DATE : 20160226 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20160322 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20160322 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : TR PAYMENT DATE : 20160223 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IE PAYMENT DATE : 20160322 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160429	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20160225 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BG DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PT PAYMENT DATE : 20160225 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GR PAYMENT DATE : 20160318 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : HU PAYMENT DATE : 20160226 YEAR OF FEE PAYMENT : 08

EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20160219 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20160322 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20160322 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20160322 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20160318 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : BE PAYMENT DATE : 20160322 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160531	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20160318 YEAR OF FEE PAYMENT : 08
EP2244887 A1	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20131120
EP2244887 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20160318 YEAR OF FEE PAYMENT : 08
EP2244887 B1	20131120	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2440547 T3	20140129	LSGT	+	granted / extensions (spc, cpc, pte)	
PT2244887 T	20131223	LSGT	+	granted / extensions (spc, cpc, pte)	
WO09106066 A1	20090903	LSPB	+	published / reissued	

Title: METHOD FOR PRODUCING A SECURITY OR VALUE DOCUMENT

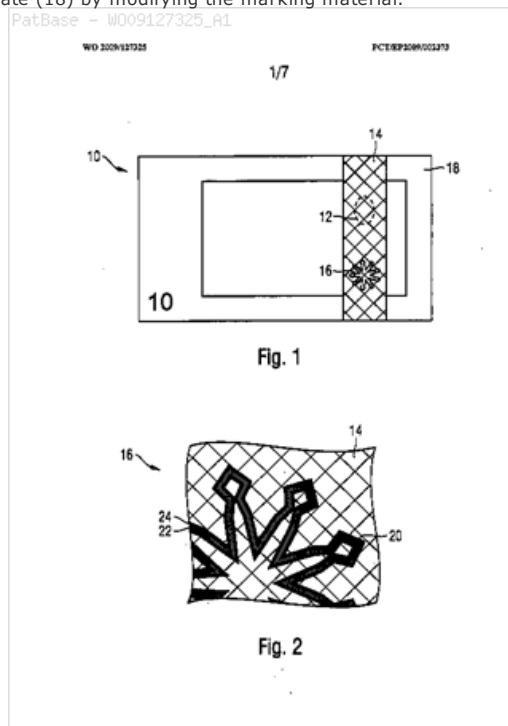
Abstract: The invention relates to a method for producing a security or value document, having the process steps: B) preparing a layered compound (14, 18) made of at least one paper substrate (14) having a marking material that can be modified by a laser in a marking region, and a security element (18) present in the marking region that can be attenuated by laser effects, and L) subjecting the layer compound (14, 18) to laser radiation, in order to generate simultaneous and precisely matched attenuation lines (26) in the security element (18) and marks (22) in the paper substrate (18) by modifying the marking material.

Classifications:

International (IPC 8-9): B41M3/14 B41M5/26 B44F1/12
D21H21/48 (Advanced/Invention);
B41M3/14 B41M5/26 B44F1/00 D21H21/40 (Core/Invention)

CPC: B41M3/14 B41M5/26

European: B41M3/14 B41M5/26



Family:

Publication number	Publication date	Application number	Application date
AT546296 E	20120315	AT20090732638T	20090401
DE102008019092 A1	20091022	DE200810019092	20080416
DE502009002855 D1	20120412	DE200950002855T	20090401
EP2271501 A1	20110112	EP20090732638	20090401
EP2271501 B1	20120222	EP20090732638	20090401
WO09127325 A1	20091022	WO2009EP02373	20090401

Priority:

DE200810019092 20080416 EP20090732638 20090401 WO2009EP02373 20090401

Probable Assignee: GIESECKE AND DEVRIENT GMBH

Assignee(s): (std): BAEHR ANNETT ; GIESECKE AND DEVRIENT GMBH ; GREGAREK ANDRE ; HEIM MANFRED ; KROMBHOLZ MARKUS ; WIEDNER BERNHARD

Inventor(s): (std): BAEHR ANNETT ; GREGAREK ANDRE ; HEIM MANFRED ; KROMBHOLZ MARKUS ; WIEDNER BERNHARD

Agent(s): ZEUNER STEFAN

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT546296 E	20120315	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102008019092 A1	20091022	LSPB	+	published / reissued	
DE102008019092 A1	20130221	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20121101

EP2271501 A1	20110112	LSPB	+	published / reissued	
EP2271501 A1	20110112	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20101116
EP2271501 A1	20110928	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B41M 3/14 20060101AFI20110825BHEP
EP2271501 A1	20120222	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D DESCRIPTION : NOT ENGLISH
EP2271501 A1	20120229	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2271501 A1	20120315	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 546296 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20120315
EP2271501 A1	20120328	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D DESCRIPTION : LANGUAGE OF EP DOCUMENT: GERMAN
EP2271501 A1	20120412	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502009002855 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120412
EP2271501 A1	20120516	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP2271501 A1	20120725	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	EFFECTIVE DATE : 20120222
EP2271501 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IS DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120622
EP2271501 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120522
EP2271501 A1	20120731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20120430 YEAR OF FEE PAYMENT : 04
EP2271501 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20120425 YEAR OF FEE PAYMENT : 04
EP2271501 A1	20120731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20120425 YEAR OF FEE PAYMENT : 04
EP2271501 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA	REF COUNTRY CODE : LV DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A

				POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120622
EP2271501 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : FI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20120831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120523
EP2271501 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120507 YEAR OF FEE PAYMENT : 04
EP2271501 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20120418 YEAR OF FEE PAYMENT : 04
EP2271501 A1	20120831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20120507 YEAR OF FEE PAYMENT : 04
EP2271501 A1	20120912	LSWD	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FD4D
EP2271501 A1	20120928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20120928	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120430 YEAR OF FEE PAYMENT : 04
EP2271501 A1	20120928	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20120430 YEAR OF FEE PAYMENT : 04
EP2271501 A1	20121031	LSLE	-BERE	BE: LAPSED	OWNER NAME : GIESECKE AND DEVRIENT G.M.B.H. EFFECTIVE DATE : 20120430
EP2271501 A1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : EE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20121031	LSLE	-PG25	LAPSED IN A	REF COUNTRY CODE : IE

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EP2271501 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20120430
EP2271501 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SI DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : RO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PL DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CZ DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20130130	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20121123
EP2271501 A1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20120430
EP2271501 A1	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20130321	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502009002855 COUNTRY OF REF DOCUMENT :

					DE EFFECTIVE DATE : 20121123
EP2271501 A1	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : ES DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120602
EP2271501 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
EP2271501 A1	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BG DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120522
EP2271501 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20130422 YEAR OF FEE PAYMENT : 05
EP2271501 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130418 YEAR OF FEE PAYMENT : 05
EP2271501 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20130430 YEAR OF FEE PAYMENT : 05
EP2271501 A1	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20130418 YEAR OF FEE PAYMENT : 05
EP2271501 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20130418 YEAR OF FEE PAYMENT : 05
EP2271501 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20130419 YEAR OF FEE PAYMENT : 05
EP2271501 A1	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130515 YEAR OF FEE PAYMENT : 05
EP2271501 A1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : TR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120222
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EP2271501 A1	20140731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20140423 YEAR OF FEE PAYMENT : 06
EP2271501 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL	REF COUNTRY CODE : NL

				FEES PAID TO NATIONAL OFFICE	PAYMENT DATE : 20140417 YEAR OF FEE PAYMENT : 06
EP2271501 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20140429 YEAR OF FEE PAYMENT : 06
EP2271501 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20140417 YEAR OF FEE PAYMENT : 06
EP2271501 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140430 YEAR OF FEE PAYMENT : 06
EP2271501 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20140422 YEAR OF FEE PAYMENT : 06
EP2271501 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20140416 YEAR OF FEE PAYMENT : 06
EP2271501 A1	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20140423 YEAR OF FEE PAYMENT : 06
EP2271501 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20150423 YEAR OF FEE PAYMENT : 07
EP2271501 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20150430 YEAR OF FEE PAYMENT : 07
EP2271501 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20150423 YEAR OF FEE PAYMENT : 07
EP2271501 A1	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20150422 YEAR OF FEE PAYMENT : 07
EP2271501 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20150424 YEAR OF FEE PAYMENT : 07
EP2271501 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20150422 YEAR OF FEE PAYMENT : 07
EP2271501 A1	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20150422 YEAR OF FEE PAYMENT : 07
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EP2271501 A1	20160422	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 8
EP2271501 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20160430 YEAR OF FEE PAYMENT : 08
EP2271501 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20160422 YEAR OF FEE PAYMENT : 08
EP2271501 A1	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20160422 YEAR OF FEE PAYMENT : 08
EP2271501 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20160422 YEAR OF FEE PAYMENT : 08

EP2271501 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SE PAYMENT DATE : 20160422 YEAR OF FEE PAYMENT : 08
EP2271501 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20160420 YEAR OF FEE PAYMENT : 08
EP2271501 A1	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20160422 YEAR OF FEE PAYMENT : 08
EP2271501 B1	20120222	LSGT	+	granted / extensions (spc, cpc, pte)	
WO09127325 A1	20091022	LSPB	+	published / reissued	
WO09127325 A1	20101019	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

Title: VALUABLE OR SECURITY DOCUMENT WITH A SAFETY MARKER

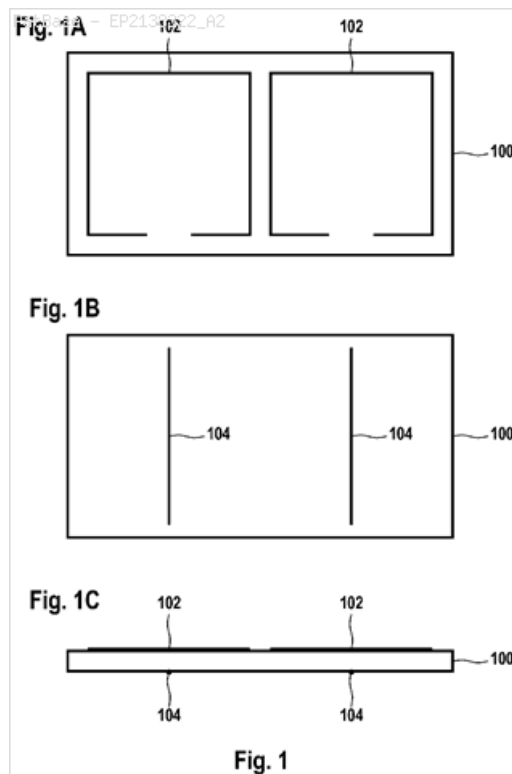
Abstract: Source: EP2138322A3 Die Erfindung betrifft ein Wert- oder Sicherheitsdokument mit zumindest einem Strukturelement (102, 104) zur Bildung eines Metamaterials

Classifications:

International (IPC 8-9): B42D15/00 B42D15/10 G07D7/06 G07D7/10 (Advanced/Invention)

CPC: B42D25/00 B42D25/29 G07D7/10

European: B42D15/00C B42D15/10 G07D7/10



Family:

Publication number	Publication date	Application number	Application date
DE102008002583 A1	20100114	DE200810002583	20080623
DE502009004601 D1	20121031	DE200950004601T	20090515
EP2138322 A2	20091230	EP20090160380	20090515
EP2138322 A3	20110713	EP20090160380	20090515
EP2138322 B1	20120905	EP20090160380	20090515

Priority:

DE200810002583 20080623 EP20090160380 20090515

Probable Assignee: BUNDESDRUCKEREI GMBH

Assignee(s): (std): BUNDESDRUCKEREI GMBH

Inventor(s): (std): KUNATH CHRISTIAN ; PFLUGHOEFT DR MALTE ; PFLUGHOEFT MALTE

Inventor(s): PFLUGHOEFT DR MALTE 13347 ; KUNATH CHRISTIAN 12203

Agent(s): RICHARDT PATENTANWAELTE PARTG MBB; RICHARDT MARKUS ALBERT; RICHARDT PATENTANWAELTE; RICHARDT PATENTANWAELTE GBR

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
DE102008002583 A1	20100114	LSPB	+	published / reissued	
DE102008002583 A1	20100114	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE102008002583 A1	20131017	LSWD	-R120	APPLICATION WITHDRAWN OR IP RIGHT ABANDONED	EFFECTIVE DATE : 20130814
EP2138322 A2	20091230	LSPB	+	published / reissued	

EP2138322 A2	20111019	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110901
EP2138322 A2	20111026	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : G07D 7/10 20060101AFI20110919BHEP
EP2138322 A2	20111026	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B42D 15/00 20060101ALI20110919BHEP
EP2138322 A2	20111026	LSRE	RIC1	CLASSIFICATION (CORRECTION)	IPC : B42D 15/10 20060101ALI20110919BHEP
EP2138322 A2	20111116	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20111017
EP2138322 A2	20120905	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D DESCRIPTION : NOT ENGLISH
EP2138322 A2	20120914	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2138322 A2	20120915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 574409 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T EFFECTIVE DATE : 20120915
EP2138322 A2	20121010	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D DESCRIPTION : LANGUAGE OF EP DOCUMENT: GERMAN
EP2138322 A2	20121031	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 502009004601 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20121031
EP2138322 A2	20121128	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP2138322 A2	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : NO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20121205
EP2138322 A2	20130225	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D EFFECTIVE DATE : 20120905
EP2138322 A2	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : GR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20121206
EP2138322 A2	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CY DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING	REF COUNTRY CODE : SI DESCRIPTION : LAPSE BECAUSE OF

				STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : SE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
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EP2138322 A2	20130228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : IS DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130105
EP2138322 A2	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : CZ DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : ES DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20121216
EP2138322 A2	20130430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : EE DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : RO DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20130628	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : PT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20130107
EP2138322 A2	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED	REF COUNTRY CODE : DK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A

				VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20130731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BG DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20121205
EP2138322 A2	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20130513 YEAR OF FEE PAYMENT : 05
EP2138322 A2	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20130522 YEAR OF FEE PAYMENT : 05
EP2138322 A2	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20130522 YEAR OF FEE PAYMENT : 05
EP2138322 A2	20130731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20130522 YEAR OF FEE PAYMENT : 05
EP2138322 A2	20130814	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20130606
EP2138322 A2	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20130604 YEAR OF FEE PAYMENT : 05
EP2138322 A2	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20130520 YEAR OF FEE PAYMENT : 05
EP2138322 A2	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20130508 YEAR OF FEE PAYMENT : 05
EP2138322 A2	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20130523 YEAR OF FEE PAYMENT : 05
EP2138322 A2	20130830	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20130525 YEAR OF FEE PAYMENT : 05
EP2138322 A2	20131010	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 502009004601 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130606
EP2138322 A2	20131130	LSLE	-BERE	BE: LAPSED	OWNER NAME : BUNDESDRUCKEREI G.M.B.H. EFFECTIVE DATE : 20130531
EP2138322 A2	20131231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MC DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20140226	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2138322 A2	20140228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : BE DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130531
EP2138322 A2	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING	REF COUNTRY CODE : IE DESCRIPTION : LAPSE BECAUSE OF

				STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130515
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EP2138322 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20140519 YEAR OF FEE PAYMENT : 06
EP2138322 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20140520 YEAR OF FEE PAYMENT : 06
EP2138322 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20140522 YEAR OF FEE PAYMENT : 06
EP2138322 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20140519 YEAR OF FEE PAYMENT : 06
EP2138322 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20140521 YEAR OF FEE PAYMENT : 06
EP2138322 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20140512 YEAR OF FEE PAYMENT : 06
EP2138322 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20140527 YEAR OF FEE PAYMENT : 06
EP2138322 A2	20140829	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20140516 YEAR OF FEE PAYMENT : 06
EP2138322 A2	20140930	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20140509 YEAR OF FEE PAYMENT : 06
EP2138322 A2	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MT DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : TR DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : MK DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT EFFECTIVE DATE : 20120905
EP2138322 A2	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : LU DESCRIPTION : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES EFFECTIVE DATE : 20130515
EP2138322 A2	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	REF COUNTRY CODE : HU DESCRIPTION : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT; INVALID AB INITIO EFFECTIVE DATE : 20090515

EP2138322 A2	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20150521 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20150506 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20150520 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20150521 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20150731	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20150520 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20150519 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20150520 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20150520 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20150519 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20150831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20150505 YEAR OF FEE PAYMENT : 07
EP2138322 A2	20160523	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 8
EP2138322 A2	20160630	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : NL PAYMENT DATE : 20160523 YEAR OF FEE PAYMENT : 08
EP2138322 A2	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : CH PAYMENT DATE : 20160526 YEAR OF FEE PAYMENT : 08
EP2138322 A2	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FI PAYMENT DATE : 20160519 YEAR OF FEE PAYMENT : 08
EP2138322 A2	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : DE PAYMENT DATE : 20160525 YEAR OF FEE PAYMENT : 08
EP2138322 A2	20160729	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : GB PAYMENT DATE : 20160523 YEAR OF FEE PAYMENT : 08
EP2138322 A2	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : PL PAYMENT DATE : 20160510 YEAR OF FEE PAYMENT : 08
EP2138322 A2	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : SK PAYMENT DATE : 20160506 YEAR OF FEE PAYMENT : 08
EP2138322 A2	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : FR PAYMENT DATE : 20160523 YEAR OF FEE PAYMENT : 08
EP2138322 A2	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : AT PAYMENT DATE : 20160519 YEAR OF FEE PAYMENT : 08

EP2138322 A2	20160831	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	REF COUNTRY CODE : IT PAYMENT DATE : 20160524 YEAR OF FEE PAYMENT : 08
EP2138322 B1	20120905	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: FORGERY PREVENTION MEDIUM

Abstract: Source: US2010272313A A forgery prevention medium includes a volume hologram layer on which an interference pattern is recorded after being exposed to at least an emitted laser beam; a digital watermarking information layer on which digital watermarking information is recorded; and a substrate film, and the information recorded on the digital watermarking information layer is interpreted by emitting a light beam that is different in one or more of the characteristics, incidence direction, incidence angle and incidence wavelength, from a hologram reproduction illumination beam used to reproduce an image recorded on the volume hologram layer.

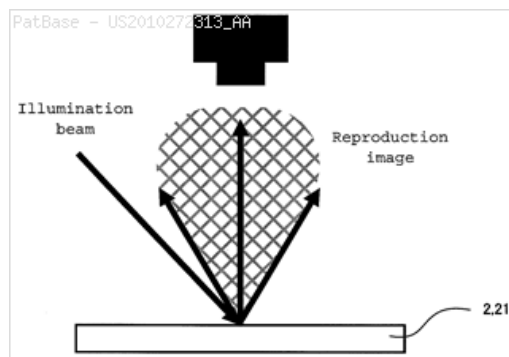
Classifications:

International (IPC 8-9): B42D15/10 G02B5/32 G03H1/04 G03H1/18 G03H1/22 G06K19/06 G06K9/00 G09F3/00 G09F3/02 (Advanced/Invention)

CPC: B42D25/41 B41M3/14 G03H1/0011 G02B5/32 G03H1/0236 G03H1/0248 G03H1/0256 G03H2001/2236 G03H2250/10 G03H2250/12 G03H2250/40 B42D25/29 B42D25/328 B42D25/333

European: B42D15/00C G03H1/00A1 G03H1/02F G03H1/02L5 L42D31/08 L42D35/22 L42D35/33 S02B5/32 S03H1/02H2 S03H1/22A3 S03H250/10 S03H250/12 S03H250/40

US: 382/100 382/100P



Family:

Publication number	Publication date	Application number	Application date
CN101872577 A	20101027	CN201010168308	20100422
CN101872577 B	20140326	CN201010168308	20100422
GB201006924 A0	20100609	GB20100006924	20100426
GB2470258 A1	20101117	GB20100006924	20100426
GB2470258 B2	20131009	GB20100006924	20100426
JP2010253829 A2	20101111	JP20090107619	20090427
JP5224060 B2	20130703	JP20090107619	20090427
US2010272313 AA	20101028	US20100767942	20100427

Priority:

JP20090107619 20090427

Probable Assignee: DAI NIPPON PRINTING CO LTD

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Assignee(s): DAI NIPPON PRINTING CO ; DAI NIPPON PRINTING CO LTD ; DAINIPPON PRINTING CO

Inventor(s): (std): KITAMURA MITSURU ; KURASHIGE MAKIO ; MAKIO KURASHIGE ; MITSURU KITAMURA ; TOMOKI YASUDA ; TSUYOSHI YAMAUCHI ; YAMAUCHI TAKESHI ; YAMAUCHI TSUYOSHI ; YASUDA TOMOKI ; YASUDA YOSHIKI

Agent(s): SUGHRUE MION PLLC

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN101872577 A	20101027	LSPB	+	published / reissued	
CN101872577 A	20101027	LSPB	+C06	PUBLICATION	
CN101872577 B	20140326	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2470258 A1	20101117	LSPB	+	published / reissued	
GB2470258 B2	20131009	LSGT	+	granted / extensions (spc, cpc, pte)	
JP2010253829 A2	20101111	LSPB	+	published / reissued	
JP2010253829 A2	20120217	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20120216
JP2010253829 A2	20121206	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20121205
JP2010253829 A2	20130129	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523

JP2010253829 A2	20130205	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2010253829 A2	20130214	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20130213
JP2010253829 A2	20130321	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20130226
JP2010253829 A2	20130322	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R150
JP2010253829 A2	20130325	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20160322 YEAR OF FEE PAYMENT : 3
JP5224060 B2	20130703	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5224060 B2	20120217	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20120216
JP5224060 B2	20121206	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20121205
JP5224060 B2	20130129	LSRE	A521	WRITTEN AMENDMENT	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130128
JP5224060 B2	20130205	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP5224060 B2	20130214	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20130213
JP5224060 B2	20130321	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	DESCRIPTION : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20130226
JP5224060 B2	20130322	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	DESCRIPTION : JAPANESE INTERMEDIATE CODE: R150
JP5224060 B2	20130325	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	DESCRIPTION : PAYMENT UNTIL: 20160322 YEAR OF FEE PAYMENT : 3
US2010272313 AA	20101028	LSPB	+	published / reissued	
US2010272313 AA	20100427	LSAS	AS	ASSIGNMENT	OWNER NAME : DAI NIPPON PRINTING CO., LTD., JAPAN DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:YAMAUCHI, TSUYOSHI; KITAMURA, MITSURU; KURASHIGE, MAKIO; AND OTHERS; REEL/FRAME:024293/0312 EFFECTIVE DATE : 20100226

Title: METHOD AND DEVICE FOR CONTROLLING THE COLOR OF METALS

Abstract: Source: US2012015118A A method and a device are disclosed for changing the color of a metal surface in a given part of the electromagnetic spectrum. It is achieved by creating a surface relief as an array of raised or indented repeated elements without breaking the continuity of the metal surface. The characteristic size of the elements is smaller than the shortest wavelength in that part of spectrum. In particular, the method uses excitation of surface plasmons on the metal surface. The relief may be optionally covered by a layer of dielectric or semiconductor for further fixed or externally controlled change of the metal surface color. The device may be used to detect the intensity or color or phase of incident light. It may be used to detect another substance in proximity of the surface by changing the color or phase or intensity of reflected light.

Classifications:

International (IPC 8-9): B05D5/06 B21B23/00 B23K26/00 B32B15/00

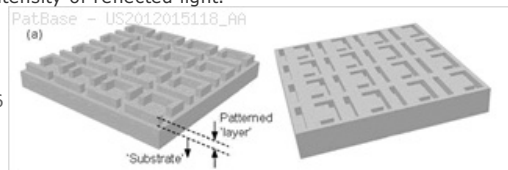
B32B3/30 B44F1/08 B44F1/12 C23F1/04 (Advanced/Invention)

CPC: B23K26/0084 B23K2203/10 B23K2203/12 B42D25/43 B44C1/22
B42D25/29 Y10T428/12014 Y10T428/12208 Y10T428/24479 B23K26/0006
B23K2203/16 B23K2203/08 B23K2201/34 B23K26/00 B42D25/324
B42D25/41 B42D25/425 B44C1/24 B44F1/08 G02B5/008 B42D2033/10
B42D2033/26 B42D2033/32 B42D2035/20 B42D2035/24

European: B23K26/00F14 B23K26/00F1B B23K26/00F1B4

B23K26/00F6D B23K26/00J7 B42D15/00C B44C1/22 B44C1/24 B44F1/08 G02B5/00P L23K201/34 L23K203/08 L23K203/10
L23K203/12 L42D31/08 L42D31/14 L42D31/16 L42D33/10 L42D33/26 L42D33/32 L42D35/20 L42D35/24 L42D35/28

US: 216/24 216/24S 219/121.6 219/121.600S 427/162 427/162S 428/156 428/156S 428/29 428/29P 428/546 428/546S 428/574
428/574S 72/365.2 72/365.200S



Family:

Publication number	Publication date	Application number	Application date
GB201011720 A0	20100825	GB20100011720	20100713
US2012015118 AA	20120119	US20110182084	20110713

Priority:

GB20100011720 20100713

Probable Assignee: OF SOUTHAMPTON UNIV

Assignee(s): (std): MACDONALD KEVIN FRANCIS ; OU JUN YU ; PAPASIMAKIS NIKITAS ; UNIV SOUTHAMPTON ; ZHELUDEV NIKOLAY I ; ZHANG JIANFA

Assignee(s): UNIVERSITY OF SOUTHAMPTON ; OF SOUTHAMPTON UNIV

Inventor(s): (std): MACDONALD KEVIN FRANCIS ; OU JUN YU ; PAPASIMAKIS NIKITAS ; ZHANG JIANFA ; ZHELUDEV NIKOLAY I

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB201011720 A0	20120111	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
US2012015118 AA	20120119	LSPB	+	published / reissued	
US2012015118 AA	20110727	LSAS	AS	ASSIGNMENT	OWNER NAME : UNIVERSITY OF SOUTHAMPTON, UNITED KINGDOM DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ZHELUDEV, NIKOLAY I.; MACDONALD, KEVIN FRANCIS; PAPASIMAKIS, NIKITAS; AND OTHERS; SIGNING DATES FROM 20110715 TO 20110725; REEL/FRAME:026656/0107

Title: ELECTRONIC COMPONENTS ON PAPER-BASED SUBSTRATES

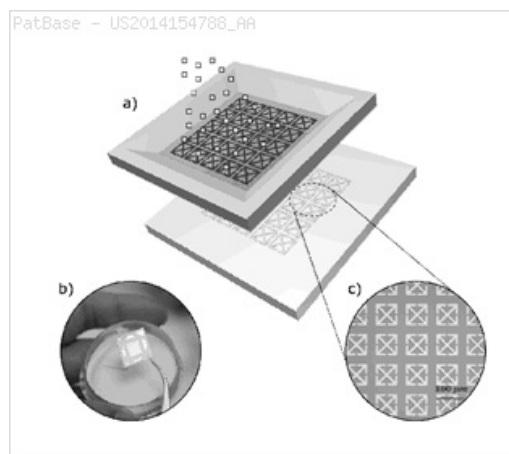
Abstract: Source: US2014154788A The present disclosure relates to paper-based substrates and apparatus comprising such substrates. The apparatus may include a patterned conductive structure coupled to the paper-based substrate, wherein the patterned conductive structure responds to electromagnetic radiation.

Classifications:

International (IPC 8-9): B01L3/00 C12Q1/54 G01J1/02 G01J5/02 G01N22/00 G06K19/06 (Advanced/Invention)

CPC: G01N21/3563 G01J1/02 G01J5/02 G01N22/00 C12Q1/54 B01L3/502707 G01N21/3581

US: 250/216 250/336.1 250/338.1 250/372 422/69 422/82.02 435/287.2 435/287.7



Family:

Publication number	Publication date	Application number	Application date
US2014154788 AA	20140605	US20120977233	20120104
WO12094436 A2	20120712	WO2012US20244	20120104
WO12094436 A3	20120927	WO2012US20244	20120104

Priority:

US20110429562P 20110104 US20120977233 20120104 WO2012US20244 20120104

Probable Assignee: TUFTS UNIV

Assignee(s): (std): KAPLAN DAVID L ; OMENETTO FIORENZO ; TAO HU ; TUFTS UNIV TRUSTEES OF TUFTS COLLEGE ; TUFTS UNIVERSITY TRUSTEES OF TUFTS COLLEGE ; UNIV TUFTS

Assignee(s): TUFTS UNIV

Inventor(s): (std): TAO HU ; OMENETTO FIORENZO ; KAPLAN DAVID L

Agent(s): POLZIN ATSUKO N ET AL

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2014154788 AA	20140605	LSPB	+	published / reissued	
US2014154788 AA	20140219	LSAS	AS	ASSIGNMENT	OWNER NAME : TUFTS UNIVERSITY, MASSACHUSETTS DESCRIPTION : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:OMENETTO, FIORENZO; KAPLAN, DAVID L.; TAO, HU; SIGNING DATES FROM 20140218 TO 20140219; REEL/FRAME:032244/0517
WO12094436 A2	20120712	LSPB	+	published / reissued	
WO12094436 A3	20130704	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO12094436 A3	20140129	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12732212 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2
WO12094436 A3	20140219	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO	REF DOCUMENT NUMBER : 13977233 COUNTRY OF REF DOCUMENT : US

Title: DEVICE FOR PLACING A MARKING ONTO A SUBSTRATE BY MEANS OF A LASER BEAM

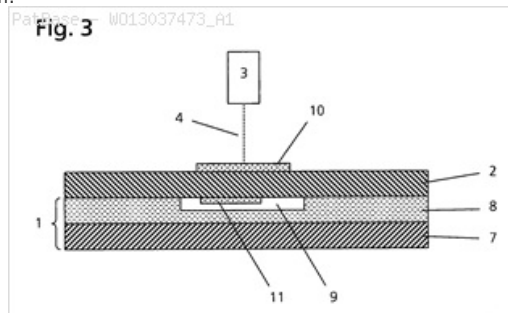
Abstract: The invention relates to a device for placing a marking onto and/or into a substrate (2), wherein at least one laser beam (4) acts on the substrate (2) and effects a change of the material of the substrate or the coating thereof on at least one of the surfaces of the substrate, wherein the substrate is guided over a rotatably mounted cylinder (1) and the laser beam (4) acts on the substrate while the substrate is at least partially in contact with the cylinder (1). According to the invention, the surface of the cylinder (1), which is in contact with the substrate (2), takes up at least intermittently ablated particles (16) that, due to the laser beam, become detached from the side of the substrate (2) that is in contact with the cylinder (1), such that the ablated particles (16) do not adhere to the substrate or a following substrate again.

Classifications:

International (IPC 8-9): B23K26/16 B41F13/46

B41J2/455 (Advanced/Invention)

CPC: B23K26/16 B41J2/442 B42D25/43 B23K26/142 B23K26/146



Family:

Publication number	Publication date	Application number	Application date
DE102011113508 A1	20130321	DE201110113508	20110915
WO13037473 A1	20130321	WO2012EP03801	20120910

Priority:

DE201110113508 20110915

Probable Assignee: GIESECKE AND DEVRIENT GMBH

Assignee(s): (std): DEPTA GEORG ; DOERFLER WALTER ; GIESECKE AND DEVRIENT GMBH ; MAYER KARLHEINZ ; REINER HARALD ; SCHIFFMANN PETER

Inventor(s): (std): DEPTA GEORG ; DEPTA GEORG DR ; DOERFLER WALTER ; MAYER KARLHEINZ ; REINER HARALD ; REINER HARALD DR ; SCHIFFMANN PETER

Agent(s): GIESECKE AND DEVRIENT GMBH

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102011113508 A1	20130321	LSPB	+	published / reissued	
DE102011113508 A1	20140522	LSES	+R012	REQUEST FOR EXAMINATION VALIDLY FILED	EFFECTIVE DATE : 20140409
DE102011113508 A1	20160401	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
WO13037473 A1	20130321	LSPB	+	published / reissued	
WO13037473 A1	20140317	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13037473 A1	20141008	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12756665 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1

Title: SUBSTRATE FOR A SECURITY DOCUMENT

Abstract: A substrate (30) for a security document, the substrate being a substantially planar polymer sheet or laminate having a tensile strength which differs in at least two directions in the plane of the substrate. Part of the substrate (30) has an elongate deformation extending substantially orthogonally to the direction exhibiting the greater tensile strength.

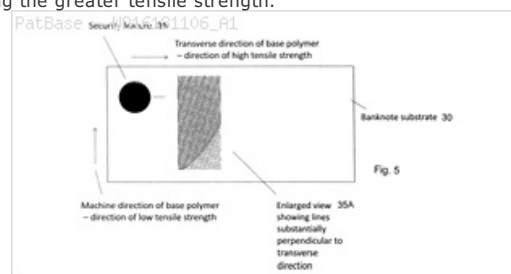
Classifications:

International (IPC 8-9): B41M3/14 B42D25/21 B42D25/24 B42D25/29

B42D25/324 B42D25/355 B42D25/425 (Advanced/Invention)

CPC: B42D25/29 B42D25/24 B42D25/324 B42D25/425 B42D25/21

B42D25/355 B42D2033/24 B42D2035/30 B41M3/14



Family:

Publication number	Publication date	Application number	Application date
GB201507918 A0	20150624	GB20150007918	20150508
GB2538234 A1	20161116	GB20150007918	20150508
WO16181106 A1	20161117	WO2016GB51269	20160503

Priority:

GB20150007918 20150508

Probable Assignee: RUE DE INT LTD

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

Assignee(s): LA RUE INT DE LTD

Inventor(s): (std): ALICE MESNAGE ; EASTGATE STEPHEN ; MESNAGE ALICE ; STEPHEN EASTGATE

Agent(s): GILL JENNINGS AND EVERY LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC 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
GB2538234 A1	20161116	LSPB	+	published / reissued	
WO16181106 A1	20161117	LSPB	+	published / reissued	

Title: SECURITY ELEMENT AND METHOD FOR PRODUCTION THEREOF

Abstract: The invention relates to a security element for the production of value documents, such as banknotes, checks, or the like, having a grid structure which cannot be discerned by the naked eye and which is formed by a layer (4) that is opaque to THz radiation, wherein: the layer (4) that is opaque to THz radiation has a layer thickness between 10 nm and 1 µm; longitudinal slits (5) are formed in the layer (4) that is opaque to THz radiation, which are transparent to THz radiation and lie adjacent to one another; the layer (4) that is opaque to THz radiation is embedded in a dielectric material (8) that is transparent to THz radiation; the longitudinal slits (5) are arranged periodically adjacent to one another with a period between 10 µm and 100 µm; and the width of the longitudinal slits (5) is not greater than 1/5 to 1/10 of the period.

Classifications:

International (IPC 8-9): B41M3/14 B42D25/30 B42D25/324 B42D25/328 B42D25/342 B42D25/346 B42D25/36 B42D25/373 B42D25/40

B42D25/435 B42D25/445 G02B5/30 (Advanced/Invention)

CPC: B42D25/373 B41M3/14 B42D25/324 B42D25/328 B42D25/342 B42D25/346 B42D25/36 B42D25/435 B42D25/445 G02B5/30

PatBase - WO17012699_A1

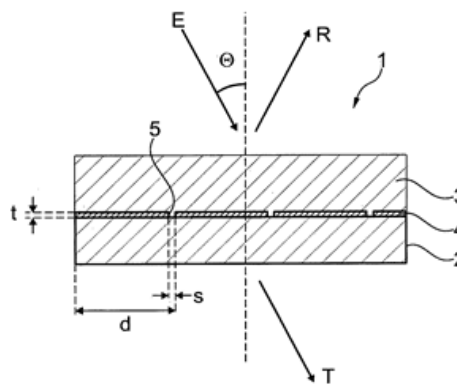


Fig. 1a

Family:

Publication number	Publication date	Application number	Application date
DE102015009584 A1	20170209	DE201510009584	20150723
WO17012699 A1	20170126	WO2016EP01191	20160711

Priority:

DE201510009584 20150723

Probable Assignee: GIESECKE AND DEVRIENT GMBH

Assignee(s): (std): GIESECKE AND DEVRIENT GMBH

Inventor(s): (std): LICHTENEGGER FRIEDRIKE ; LOCHBIHLER HANS ; THIERAUF KLAUS

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
DE102015009584 A1	20170209	LSPB	+	published / reissued	
WO17012699 A1	20170126	LSPB	+	published / reissued	