

Search history

Search 1: IC=(G03G21/18 or G03G21/1814 or G03G21/1821) (Results 10634)
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Search 10: FT=(cartridge and developer) (Results 21861)
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Title: ENCODED DEVICE FOR A TONER CARTRIDGE

Abstract: One aspect of the invention is the invention is directed to a toner cartridge including a sump for carrying a supply of toner. An agitator is rotatably mounted in the sump, and the agitator has a first end and a second end. An encoded wheel is coupled to the first end of the agitator. The encoder wheel is structured and adapted to include a first preselected cartridge characteristic indicia having a first extent, a stop indicia having a second extent larger than the first extent and a start indicia having a third extent larger than the second extent. Each indicia may be in the form of a slot. Preferably, the start indicia is positioned between about a 5:00 o'clock position and a 6:00 O'clock position. The stop indicia is positioned at about a 9:00 o'clock position. At least one preselected cartridge characteristic indicia is positioned between the start indicia and the stop indicia. At least one measurement indicia is located between about 200 degrees and about 230 degrees in a clockwise direction from the 6:00 o'clock position.

Classifications:

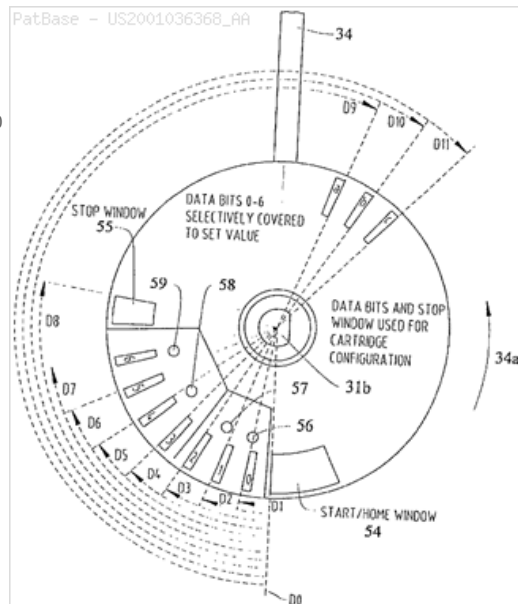
International (IPC 8-9): B41J2/175 G03G15/00 G03G15/08
G03G21/00 G03G21/18 (Advanced/Invention);
G03G15/08 G03G21/00 G03G21/18 (Advanced/Non-invention);
G03G15/00 (Core/Non-invention)

International (IPC 1-7): B32B31/00 B41B17/42 B41J2/175 G00K7/00
G03G15/00 G03G15/06 G03G15/08 G03G15/08 G03G15/22
G03G21/00 G03G21/18 G03G5/00

CPC: G03G15/0856 G03G15/0858 G03G15/0889 G03G21/1896
G03G15/0822 G03G15/0896 G03G2215/085 G03G2221/1838

European: G03G15/08H G03G15/08H2 G03G15/08S G03G21/18L2
S03G215/08A5 S03G221/18P1

US: 156/108 156/DIG.5 235/461 399/119 399/12 399/12P 399/13
399/13S 399/27 399/27S

**Family:**

Publication number	Publication date	Application number	Application date
AR005618 AA	19990623	AR1997P100382	19970130
AR010782 AA	20000712	AR1997P105908	19971216
AT248389 E	20030915	AT19970301007T	19970217
AU199712570 A1	19970821	AU19970012570	19970206
AU199748298 A1	19980618	AU19970048298	19971211
AU693732 B2	19980702	AU19970012570	19970206
AU728152 B2	20010104	AU19970048298	19971211
BRPI9700989 A	20000418	BR1997PI00989	19970214
BRPI9700989 C1	20000425	BR1997PI00989	19970214
CA2197620 AA	19970626	CA19972197620	19970214
CA2197620 C	19980512	CA19972197620	19970214
CA2225021 AA	19980617	CA19972225021	19971216
DE0790536 T1	19980409	DE19970301007T	19970217
DE69724305 D1	20031002	DE19976024305	19970217
DE69724305 T2	20040617	DE19976024305T	19970217
DE69733700 D1	20050811	DE19976033700	19970217
DE69733700 T2	20060504	DE19976033700T	19970217
EP0790536 A2	19970820	EP19970301007	19970217
EP0790536 A3	19980930	EP19970301007	19970217
EP0790536 B1	20030827	EP19970301007	19970217
EP0859290 A1	19980819	EP19970310218	19971217
EP1291732 A1	20030312	EP20020027141	19970217
EP1291732 B1	20050706	EP20020027141	19970217
EP1522904 A2	20050413	EP20050000154	19970217
EP1522904 A3	20080416	EP20050000154	19970217
ES2109910 T1	19980201	ES19970301007T	19970217
GR980300007 T1	19980331	GR19980300007T	19980331
IN00085DE1997 A	20080725	IN1997DE00085	19970110
IN03264DE2005 A	20080905	IN2005DE03264	20051205
IN229860 B	20090313	IN1997DE00085	19970110
JP10026872 A2	19980127	JP19970048494	19970217
JP10198150 A2	19980731	JP19970364655	19971217
JP3581894 B2	20041027	JP19970048494	19970217
KR100298971 B1	20011026	KR19970004890	19970215
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KR19980064215 A	19981007	KR19970069470	19971217
MX9710288 A1	19981031	MX19970010288	19971217
SG45532 A1	19980116	SG19970000347	19970217
SG68644 A1	19991116	SG19970004443	19971215
TW315429 B	19970911	TW19970100392	19970115
TW390979 B	20000521	TW19970118911	19971215

US2001036368 AA	20011101	US20010871226	20010531
US5634169 A	19970527	US19960602648	19960216
US5942067 A	19990824	US19970861842	19970522
US5995772 A	19991130	US19960768257	19961217
US6009285 A	19991228	US19970975389	19971120
US6169860 BA	20010102	US19990415620	19991012
US6295422 BA	20010925	US20000557096	20000421
US6397015 BB	20020528	US20010871226	20010531

Priority:

US19960602648	19960216	US19960768257	19961217	CA19972197620	19970214
CA19972197620	19970214	EP19970301007	19970217	EP20020027141	19970217
US19970861842	19970522	US19970975389	19971120	CA19972225021	19971216
US19990415620	19991012	US20000557096	20000421	US20010871226	20010531

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Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR005618 AA	19990623	LSPB	+	published / reissued	
AR005618 AA	20060428	LSGT	+FG	GRANT, REGISTRATION	
AR010782 AA	20000712	LSPB	+	published / reissued	
AR010782 AA	20050221	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
AT248389 E	20030915	LSGT	+	granted / extensions (spc, cpc, pte)	
AT248389 E	20040215	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
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AU199748298 A1	19980618	LSPB	+	published / reissued	
AU693732 B2	19980702	LSGT	+	granted / extensions (spc, cpc, pte)	
AU693732 B2	20170206	PEXP		Calculated Patent Term Expiry	
AU728152 B2	20010104	LSGT	+	granted / extensions (spc, cpc, pte)	
AU728152 B2	20171211	PEXP		Calculated Patent Term Expiry	
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CA2197620 AA	19970626	LSPB	+	published / reissued	
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CA2197620 C	19980512	LSGT	+	granted / extensions (spc, cpc, pte)	
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CA2197620 C	20170214	PEXP		Calculated Patent Term Expiry	

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EP0790536 A2	20030326	LSRE	RTI1	TITLE (CORRECTION)	TEXT : TONER CARTRIDGE FOR AN ELECTROPHOTOGRAPHIC MACHINE AND METHOD OF DETERMINING CHARACTERISTICS OF SUCH CARTRIDGE
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EP0790536 A2	20031001	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
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EP0790536 A2	20170217	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R071 REF DOCUMENT NUMBER : 69724305 COUNTRY OF REF DOCUMENT : DE
EP0790536 A2	20170308	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20 EXPIRY DATE : 20170216
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EP0790536 B1	20170217	PEXP		Calculated Patent Term Expiry	
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EP0859290 A1	20040204	LSWD	-18W	APPLICATION WITHDRAWN	EFFECTIVE DATE : 20031205
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EP1291732 A1	20031105	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030905
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EP1291732 A1	20170308	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20 EXPIRY DATE : 20170216
EP1291732 A1	20170531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20170216
EP1291732 B1	20050706	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1291732 B1	20170216	PEXP		Calculated Patent Term Expiry	
EP1291732 B1	20170217	PEXP		Calculated Patent Term Expiry	
EP1522904 A2	20050413	LSPB	+	published / reissued	
EP1522904 A3	20080709	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20080527
EP1522904 A3	20081224	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB
EP1522904 A3	20110427	LSSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20110324
EP1522904 A3	20141126	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20140625
ES2109910 T1	19980201	LSPB	+	published / reissued	
GR980300007 T1	19980331	LSPB	+	published / reissued	
IN00085DE1997 A	20080725	LSPB	+	published / reissued	
IN03264DE2005 A	20080905	LSPB	+	published / reissued	
IN229860 B	20090313	LSGT	+	granted / extensions (spc, cpc, pte)	
IN229860 B	20170110	PEXP		Calculated Patent Term Expiry	
JP10026872 A2	19980127	LSPB	+	published / reissued	
JP10198150 A2	19980731	LSPB	+	published / reissued	
JP10198150 A2	20050301	LSWD	-A300	WITHDRAWAL OF APPLICATION BECAUSE OF NO REQUEST FOR EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A300 EFFECTIVE DATE : 20050301
JP3581894 B2	20041027	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3581894 B2	20000711	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20000711
JP3581894 B2	20040106	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20040105
JP3581894 B2	20040303	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20040302

JP3581894 B2	20040422	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20040414
JP3581894 B2	20040729	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20040707
JP3581894 B2	20040806	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3581894 B2	20070821	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3581894 B2	20080819	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3581894 B2	20090730	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3581894 B2	20090804	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3581894 B2	20100803	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3581894 B2	20110728	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3581894 B2	20110802	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 8
JP3581894 B2	20120806	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3581894 B2	20170217	PEXP		Calculated Patent Term Expiry	
KR100298971 B1	20011026	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100298971 B1	20170215	PEXP		Calculated Patent Term Expiry	
KR19970062828 A	19970912	LSPB	+	published / reissued	
KR19980064215 A	19981007	LSPB	+	published / reissued	
MX9710288 A1	19981031	LSPB	+	published / reissued	
MX9710288 A1	20130831	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
SG45532 A1	19980116	LSPB	+	published / reissued	
SG68644 A1	19991116	LSPB	+	published / reissued	
TW315429 B	19970911	LSGT	+	granted / extensions (spc, cpc, pte)	
TW315429 B	20170221	LSLE	-MK4A	EXPIRATION OF PATENT TERM OF AN INVENTION PATENT	
TW315429 B	20170115	PEXP		Calculated Patent Term Expiry	
TW390979 B	20000521	LSGT	+	granted / extensions (spc, cpc, pte)	
TW390979 B	20000908	LSGT	+GD4A	ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT	
TW390979 B	20060421	LSLE	-MM4A	ANNULMENT OR LAPSE OF PATENT DUE TO NON-PAYMENT OF FEES	
TW390979 B	20171215	PEXP		Calculated Patent Term Expiry	
US2001036368 AA	20011101	LSPB	+	published / reissued	
US5634169 A	19970527	LSGT	+	granted / extensions (spc, cpc, pte)	

US5634169 A	19960216	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LEXMARK INTERNATIONAL, INC., CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: BARRY, RAYMOND J.; CURRY, STEVEN A.; NEWMAN, BENJAMIN K.; AND OTHERS; REEL/FRAME:007903/0851 EFFECTIVE DATE : 19960216
US5634169 A	19970516	LSGT	PAT1	Patented Case	
US5634169 A	20001122	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5634169 A	20041129	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5634169 A	20081126	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5634169 A	20160216	PEXP		Calculated Patent Term Expiry	
US5942067 A	19990824	LSGT	+	granted / extensions (spc, cpc, pte)	
US5942067 A	19990527	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LEXMARK INTERNATIONAL, INC., KENTUCKY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: NEWMAN, BENJAMIN KEITH; REEL/FRAME:010168/0910 EFFECTIVE DATE : 19990429
US5942067 A	19990813	LSGT	PAT1	Patented Case	
US5942067 A	20030221	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5942067 A	20070226	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5942067 A	20110224	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5942067 A	20170522	PEXP		Calculated Patent Term Expiry	
US5995772 A	19991130	LSGT	+	granted / extensions (spc, cpc, pte)	
US5995772 A	19961217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LEXMARK INTERNATIONAL, INC., KENTUCKY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: BARRY, RAYMOND L.; CURRY, STEVEN A.; NEWMAN, BENJAMIN K.; AND OTHERS; REEL/FRAME:008386/0143 EFFECTIVE DATE : 19961217
US5995772 A	19991119	LSGT	PAT1	Patented Case	
US5995772 A	20030529	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5995772 A	20070530	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5995772 A	20110531	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5995772 A	20161217	PEXP		Calculated Patent Term Expiry	
US6009285 A	19991228	LSGT	+	granted / extensions (spc, cpc, pte)	
US6009285 A	19971120	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LEXMARK INTERNATIONAL, INC., KENTUCKY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: BARRY, RAYMOND J.; JONES, CHRISTOPHER D.; REAM, GREGORY L.; AND OTHERS; REEL/FRAME:008888/0527 EFFECTIVE DATE : 19971120
US6009285 A	19991217	LSGT	PAT1	Patented Case	
US6009285 A	20030630	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

US6009285 A	20070628	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6009285 A	20110628	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6009285 A	20171120	PEXP		Calculated Patent Term Expiry	
US6169860 BA	20010102	LSGT	+	granted / extensions (spc, cpc, pte)	
US6169860 BA	20040702	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6169860 BA	20080702	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6169860 BA	20120702	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6169860 BA	20191012	PEXP		Calculated Patent Term Expiry	
US6295422 BA	20010925	LSGT	+	granted / extensions (spc, cpc, pte)	
US6295422 BA	20010906	LSGT	PAT1	Patented Case	
US6295422 BA	20050325	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6295422 BA	20090325	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6295422 BA	20130227	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6295422 BA	20200421	PEXP		Calculated Patent Term Expiry	
US6397015 BB	20020528	LSGT	+	granted / extensions (spc, cpc, pte)	
US6397015 BB	20020510	LSGT	PAT1	Patented Case	
US6397015 BB	20051128	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6397015 BB	20091130	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6397015 BB	20131030	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6397015 BB	20210531	PEXP		Calculated Patent Term Expiry	

Title: Development bias connector with integral bearing support

Abstract: A bearing support for use in a process cartridge including a roll rotatably mounted to a housing is provided. The roll is used for transporting marking particles to a latent image to form a developed image. The bearing support supports the roll and provides an electrical path between the roll and a voltage source. The bearing support includes a body having a first feature for cooperation with the roll and a second feature for cooperation with the housing. At least one of the first feature and the second feature provides for rotatable motion between the housing and the roll. The bearing support further includes a third feature for providing an electrical path between the roll and the voltage source.

Classifications:

International (IPC 8-9): G03G15/08 G03G15/09 G03G21/16 G03G21/18 (Advanced/Invention)

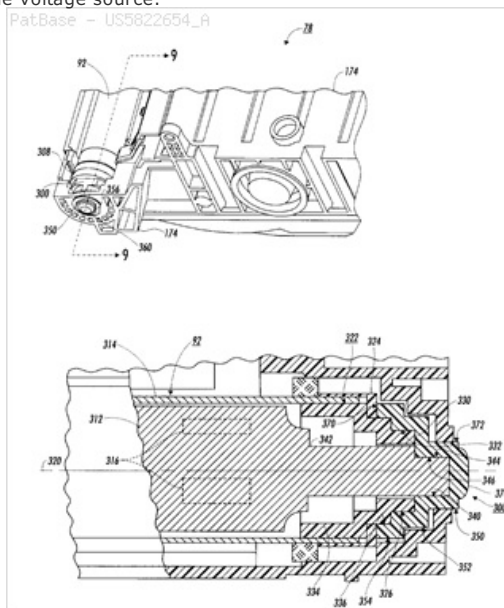
International (IPC 1-7): G03G15/08 G03G15/09 G03G21/16 G03G21/18

CPC: G03G21/1867 G03G2221/1633 G03G2221/1657 G03G2221/166

European: G03G21/18H3 S03G221/16D1 S03G221/16K2

S03G221/16K3

US: 399/111



Family:

Publication number	Publication date	Application number	Application date
BRPI9804610 A	19991103	BR1998PI04610	19981112
BRPI9804610 B1	20100713	BR1998PI04610	19981112
DE69825121 D1	20040826	DE19986025121	19981105
DE69825121 T2	20041118	DE19986025121T	19981105
EP0917017 A2	19990519	EP19980120991	19981105
EP0917017 A3	20000531	EP19980120991	19981105
EP0917017 B1	20040721	EP19980120991	19981105
JP11219027 A2	19990810	JP19980324313	19981116
US5822654 A	19981013	US19970970719	19971114
USRE42125 E	20110208	US20070652134	20070111

Priority:

US19970970719 19971114 US20070652134 20070111

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): XEROX CORP ROCHESTER ; BANK ONE NA ADMINISTRATIVE AGENT AS ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): CHIESA DANIEL A ; DAMJI DHIRENDRA C ; KUMAR AJAY

Inventor(s): AJAY KUMAR ; DANIEL A CHIESA ; DHIRENDRA C DAMJI

Agent(s): OLIFF AND BERRIDGE PLC

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI9804610 A	19991103	LSPB	+	published / reissued	
BRPI9804610 A	20090825	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI9804610 B1	20100713	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	TEXT : PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 13/07/2010, OBSERVADAS AS CONDICÖES LEGAIS.
BRPI9804610 B1	20151124	LSLE	-B21F	LAPSE ACC. ART. 78, ITEM IV - ON NON-PAYMENT OF THE ANNUAL FEES IN TIME	TEXT : REFERENTE A 17A ANUIDADE.

BRPI9804610 B1	20160329	LSLE	-B24J	LAPSE BECAUSE OF NON-PAYMENT OF ANNUAL FEES (DEFINITIVELY: ART 78 IV LPI, RESOLUTION 113/2013 ART. 12)	TEXT : EM VIRTUDE DA EXTINCAO PUBLICADA NA RPI 2342 DE 24-11- 2015 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDA A EXTINCAO DA PATENTE E SEUS CERTIFICADOS, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
BRPI9804610 B1	20181112	PEXP		Calculated Patent Term Expiry	
DE69825121 D1	20050818	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69825121 T2	20041118	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69825121 T2	20181105	PEXP		Calculated Patent Term Expiry	
EP0917017 A2	19990519	LSPB	+	published / reissued	
EP0917017 A3	20010124	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20001130
EP0917017 A3	20010207	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : DE FR GB
EP0917017 A3	20030502	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030319
EP0917017 B1	20040721	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0917017 B1	20040721	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0917017 B1	20050713	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20050422
EP0917017 B1	20151023	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP0917017 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151027 YEAR OF FEE PAYMENT : 18
EP0917017 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151022 YEAR OF FEE PAYMENT : 18
EP0917017 B1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151023 YEAR OF FEE PAYMENT : 18
EP0917017 B1	20170601	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69825121 COUNTRY OF REF DOCUMENT : DE
EP0917017 B1	20170726	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20161105
EP0917017 B1	20170825	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20170731
EP0917017 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161130

EP0917017 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170601
EP0917017 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161105
EP0917017 B1	20181105	PEXP		Calculated Patent Term Expiry	
JP11219027 A2	19990810	LSPB	+	published / reissued	
JP11219027 A2	20051117	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20051116
JP11219027 A2	20081001	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080930
JP11219027 A2	20081226	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20081225
JP11219027 A2	20090204	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20090203
US5822654 A	19981013	LSGT	+	granted / extensions (spc, cpc, pte)	
US5822654 A	19971114	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: DAMJI, DHIRENDRA C.; KUMAR, AJAY; CHIESA, DANIEL A.; REEL/FRAME: 008882/0801; SIGNING DATES FROM 19971113 TO 19971114
US5822654 A	19980908	LSGT	PAT1	Patented Case	
US5822654 A	20020211	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5822654 A	20020628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY INTEREST; ASSIGNOR: XEROX CORPORATION; REEL/FRAME: 013153/0001 EFFECTIVE DATE : 20020621
US5822654 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR: XEROX CORPORATION; REEL/FRAME: 015134/0476 EFFECTIVE DATE : 20030625
US5822654 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR: XEROX CORPORATION; REEL/FRAME: 015134/0476 EFFECTIVE DATE : 20030625
US5822654 A	20060209	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5822654 A	20100218	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5822654 A	20150523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR: BANK ONE, NA; REEL/FRAME: 035760/0054 EFFECTIVE DATE : 20030625

US5822654 A	20171114	PEXP		Calculated Patent Term Expiry
USRE42125 E	20110119	LSGT	PAT1	Patented Case

Title: VARIABLE SIZE, REPLACEABLE TONER SUMP PANS FOR PRINT CARTRIDGES

Abstract: A system for providing a plurality of process cartridges for developing with marking particles a latent image with common components is provided. The system includes a housing and a member mounted to the housing for advancing the marking particles toward the latent image. The system also includes a first pan securable to the housing and defining a first cavity therebetween. The first cavity defines a first volume. The system also includes a second pan securable to the housing and defining a second cavity therebetween. The second cavity defines a second volume substantially different than the first volume. The housing, the member and the first pan are assemblable to form a first process cartridge including the first second volume. The housing, the member and the second pan are assemblable to form a second process cartridge including the second second volume.

Classifications:

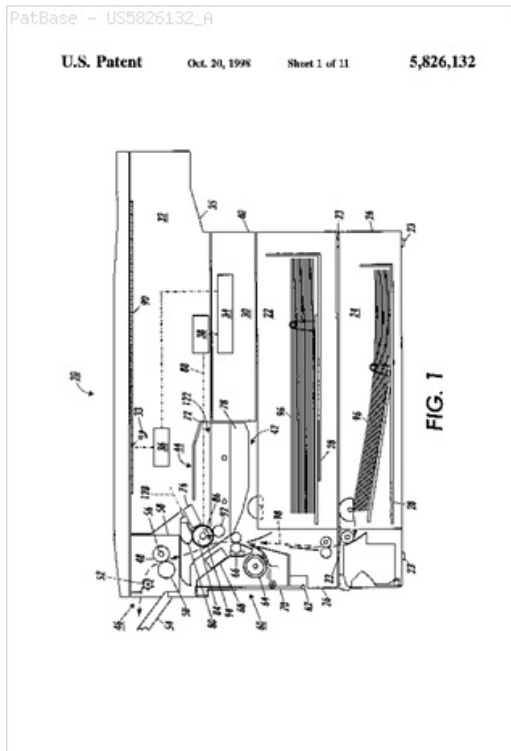
International (IPC 8-9): G03G15/08 G03G21/18 (Advanced/Invention); G03G15/08 G03G21/18 (Core/Invention)

International (IPC 1-7): G03G15/00 G03G15/08 G03G21/18

CPC: G03G15/0875 G03G15/0877 G03G21/181 G03G21/1821 G03G2221/1633 G03G2221/1853

European: G03G15/08H3D G03G21/18C2 G03G21/18C4C S03G221/16D1 S03G221/18P3

US: 399/110 399/111 399/113 399/119



Family:

Publication number	Publication date	Application number	Application date
BRPI9804617 A	19991103	BR1998PI04617	19981112
DE69826211 D1	20041021	DE19986026211	19981113
DE69826211 T2	20050127	DE19986026211T	19981113
EP0917019 A2	19990519	EP19980121198	19981113
EP0917019 A3	20000503	EP19980121198	19981113
EP0917019 B1	20040915	EP19980121198	19981113
JP11219091 A2	19990810	JP19980324317	19981116
US5826132 A	19981020	US19970971690	19971114

Priority:

US19970971690 19971114

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): XEROX CORP ROCHESTER ; BANK ONE NA ADMINISTRATIVE AGENT AS ; BANK ONE NA AS ADMINISTRATIVE AGENT ; JPMORGAN CHASE BANK AS COLLATERAL AGENT ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): DAMJI DHIRENDRA C ; KUMAR AJAY

Inventor(s): AJAY KUMAR ; DHIRENDRA C DAMJI

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI9804617 A	19991103	LSPB	+	published / reissued	
BRPI9804617 A	20081007	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI9804617 A	20090804	LSRV	B09B	DECISION: REFUSAL	TEXT : INDEFERIDO COM BASE NO ART. 80 COMBINADO COM

O ART. 13 DA LPI					
BRPI9804617 A	20091103	LSRV	B09B	DECISION: REFUSAL	TEXT : MANTIDO O INDEFERIMENTO UMA VEZ QUE NAO FOI APRESENTADO RECURSO DENTRO DO PRAZO LEGAL.
DE69826211 D1	20051013	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69826211 D1	20051103	LSLI	8320	WILLINGNESS TO GRANT LICENCES DECLARED (PARAGRAPH 23)	
DE69826211 T2	20050127	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69826211 T2	20181113	PEXP		Calculated Patent Term Expiry	
EP0917019 A2	19990519	LSPB	+	published / reissued	
EP0917019 A3	20010103	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20001103
EP0917019 A3	20010110	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : DE FR GB
EP0917019 A3	20030409	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20030224
EP0917019 A3	20040331	LSRE	RTI1	TITLE (CORRECTION)	TEXT : SYSTEM OF PROCESS CARTRIDGES WITH VARIABLE SIZE TONER STORAGE ROOM
EP0917019 B1	20040915	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0917019 B1	20040915	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0917019 B1	20050831	LSLI	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : 746 EFFECTIVE DATE : 20050809
EP0917019 B1	20050907	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20050616
EP0917019 B1	20130131	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20121025 YEAR OF FEE PAYMENT : 15
EP0917019 B1	20130228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20121025 YEAR OF FEE PAYMENT : 15
EP0917019 B1	20130329	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20130107 YEAR OF FEE PAYMENT : 15
EP0917019 B1	20140723	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20131113
EP0917019 B1	20140822	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20140731
EP0917019 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140603
EP0917019 B1	20140904	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69826211 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140603
EP0917019 B1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20131113

EP0917019 B1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20131202
EP0917019 B1	20181113	PEXP		Calculated Patent Term Expiry	
JP11219091 A2	19990810	LSPB	+	published / reissued	
JP11219091 A2	20051117	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20051116
JP11219091 A2	20070803	LSWD	-A761	WRITTEN WITHDRAWAL OF APPLICATION	TEXT : JAPANESE INTERMEDIATE CODE: A761 EFFECTIVE DATE : 20070802
US5826132 A	19981020	LSGT	+	granted / extensions (spc, cpc, pte)	
US5826132 A	19971117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DAMJI, DHIRENDRA C.; KUMAR, AJAY; REEL/FRAME:008893/0646 EFFECTIVE DATE : 19971113
US5826132 A	19980914	LSGT	PAT1	Patented Case	
US5826132 A	19990309	LSRE	CC	CERTIFICATE OF CORRECTION	
US5826132 A	20020211	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5826132 A	20020628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY INTEREST; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:013153/0001 EFFECTIVE DATE : 20020621
US5826132 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5826132 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5826132 A	20060209	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5826132 A	20100218	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5826132 A	20171114	PEXP		Calculated Patent Term Expiry	

Title: Printing cartridge with molded cantilever developer roller spacing spring

Abstract: A spring for use in a process cartridge for use in a printing machine is provided. The spring for urging a development roll mounted to a development housing pivotably mounted to a process cartridge housing toward a latent image to form a developed image. The spring includes an arm fixedly secured to either the process cartridge housing or the development housing. The arm includes a distal end thereof. The distal end of the arm is contactable with the other of either the process cartridge housing or the development housing.

Classifications:

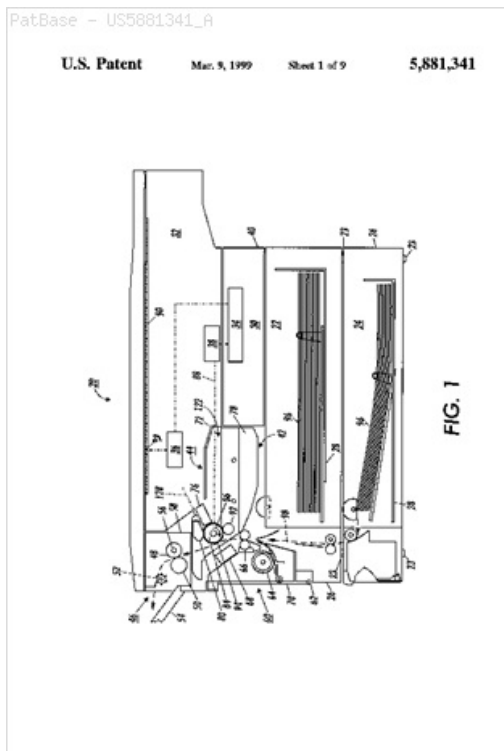
International (IPC 8-9): F16F1/18 G03G21/18 (Advanced/Invention); F16F1/02 G03G21/18 (Core/Invention)

International (IPC 1-7): F16F1/18 G03G15/00 G03G21/18

CPC: G03G21/1821 G03G2221/163

European: G03G21/18C4C S03G221/16D

US: 399/111 399/119



Family:

Publication number	Publication date	Application number	Application date
JP11224041 A2	19990817	JP19980324320	19981116
US5881341 A	19990309	US19970971691	19971114

Priority:

US19970971691 19971114

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): BANK ONE NA ADMINISTRATIVE AGENT AS ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): DAMJI DHIRENDRA C ; KUMAR AJAY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP11224041 A2	19990817	LSPB	+	published / reissued	
JP11224041 A2	20051117	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20051116
JP11224041 A2	20080917	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080916
JP11224041 A2	20081216	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20081215
JP11224041 A2	20090624	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20090623
JP11224041 A2	20090822	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20090821
JP11224041 A2	20100303	LSRV	-A02	DECISION OF	TEXT : JAPANESE INTERMEDIATE CODE:

REFUSAL					A02 EFFECTIVE DATE : 20100302
US5881341 A	19990309	LSGT	+	granted / extensions (spc, cpc, pte)	
US5881341 A	19971117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KUMAR, AJAY; DAMJI, DHIRENDRA C.; REEL/FRAME:008885/0958 EFFECTIVE DATE : 19971113
US5881341 A	19990201	LSGT	PAT1	Patented Case	
US5881341 A	20020628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY INTEREST; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:013153/0001 EFFECTIVE DATE : 20020621
US5881341 A	20020715	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5881341 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5881341 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5881341 A	20060712	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5881341 A	20100720	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5881341 A	20171114	PEXP		Calculated Patent Term Expiry	

Title: CHARGING DEVICE MODULE FOR USE WITH PRINT CARTRIDGE

Abstract: A charging module for applying a uniform electrostatic charge to a charge retentive surface is provided. The charging module is operably electrically connectable to a power supply for supplying an electrical bias to the charging apparatus. The charging module is mountable into a process cartridge. The process cartridge includes a cartridge mounting surface for cooperation with the charging apparatus. The apparatus includes a housing including a housing mounting feature and an electrode. The electrode is mounted to the housing and is positioned adjacent the surface in a non-contact relationship therewith. The housing mounting feature is adapted to be cooperable with the cartridge mounting surface to secure the placement of the charging module into the cartridge without the need for any installation tools.

Classifications:

International (IPC 8-9): G03G15/00 G03G15/02

G03G21/18 (Advanced/Invention);

G03G15/00 G03G15/02 G03G21/18 (Core/Invention)

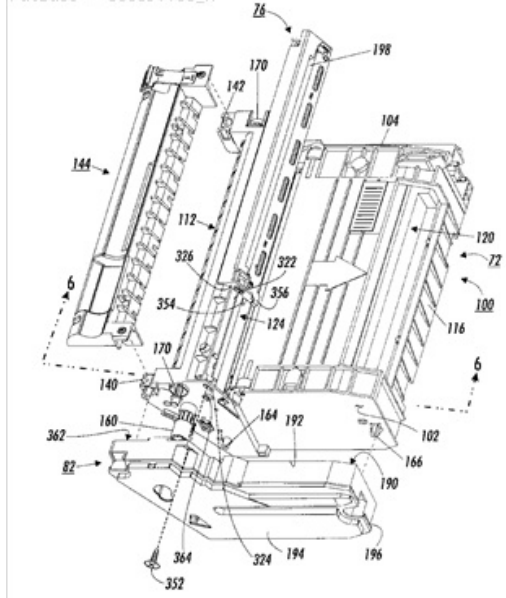
International (IPC 1-7): G03G15/00 G03G15/02 G03G21/18 H04B1/38

CPC: G03G15/0291 G03G21/1814 G03G21/1821 G03G2221/1693

European: G03G15/02 G03G21/18C3 G03G21/18C4C S03G221/16T

US: 399/113 399/115 399/170

PatBase - US5890035_R



Family:

Publication number	Publication date	Application number	Application date
BRPI9804612 A	19991103	BR1998PI04612	19981112
DE69837373 D1	20070503	DE19986037373	19981109
DE69837373 T2	20070705	DE19986037373T	19981109
EP0918263 A2	19990526	EP19980121284	19981109
EP0918263 A3	20010502	EP19980121284	19981109
EP0918263 B1	20070321	EP19980121284	19981109
JP11219000 A2	19990810	JP19980324314	19981116
US5890035 A	19990330	US19970970842	19971114

Priority:

US19970970842 19971114

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): BANK ONE NA ADMINISTRATIVE AGENT AS ; BANK ONE NA AS ADMINISTRATIVE AGENT ; JPMORGAN CHASE BANK AS COLLATERAL AGENT ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): BRYANT JEERY W ; BRYANT JERRY W ; CHIESA DANIEL A ; DAMJI DHIRENDRA C ; KUMAR AJAY

Inventor(s): AJAY KUMAR ; DANIEL A CHIESA ; DHIRENDRA C DAMJI ; JEERY W BRYANT

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI9804612 A	19991103	LSPB	+	published / reissued	
BRPI9804612 A	20081216	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI9804612 A	20090825	LSRV	B09B	DECISION: REFUSAL	TEXT : INDEFERIDO COM BASE NO ARTIGO 80 COMBINADO COM O ARTIGO 13 DA LPI
BRPI9804612 A	20091201	LSRV	B09B	DECISION: REFUSAL	TEXT : MANTIDO O INDEFERIMENTO UMA VEZ QUE NAO FOI APRESENTADO RECURSO DENTRO DO PRAZO LEGAL.

DE69837373 D1	20080410	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69837373 T2	20070705	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69837373 T2	20181109	PEXP		Calculated Patent Term Expiry	
EP0918263 A2	19990526	LSPB	+	published / reissued	
EP0918263 A3	20010502	LSRE	RIC1	CLASSIFICATION (CORRECTION)	TEXT : 7G 03G 15/02 A, 7G 03G 21/18 B, 7G 03G 15/00 B
EP0918263 A3	20020102	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20011102
EP0918263 A3	20020123	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : DE FR GB
EP0918263 B1	20070321	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0918263 B1	20070321	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0918263 B1	20080227	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20071227
EP0918263 B1	20151023	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP0918263 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151027 YEAR OF FEE PAYMENT : 18
EP0918263 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151022 YEAR OF FEE PAYMENT : 18
EP0918263 B1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151023 YEAR OF FEE PAYMENT : 18
EP0918263 B1	20170601	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69837373 COUNTRY OF REF DOCUMENT : DE
EP0918263 B1	20170726	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20161109
EP0918263 B1	20170825	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20170731
EP0918263 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161130
EP0918263 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170601
EP0918263 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161109
EP0918263 B1	20181109	PEXP		Calculated Patent Term Expiry	

JP11219000 A2	19990810	LSPB	+	published / reissued	
JP11219000 A2	20051103	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20051102
JP11219000 A2	20080618	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080617
JP11219000 A2	20080917	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080916
JP11219000 A2	20090218	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20090217
US5890035 A	19990330	LSGT	+	granted / extensions (spc, cpc, pte)	
US5890035 A	19971114	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KUMAR, AJAY; DAMJI, DHIRENDRA C.; CHIESA, DANIEL A.; AND OTHERS; REEL/FRAME:008833/0966; SIGNING DATES FROM 19971113 TO 19971114
US5890035 A	19971114	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KUMAR, AJAY; DAMJI, DHIRENDRA C.; CHIESA, DANIEL A.; AND OTHERS; REEL/FRAME:009387/0597; SIGNING DATES FROM 19971113 TO 19971114
US5890035 A	19971114	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : (ASSIGNMENT OF ASSIGNOR'S INTEREST) RE-RECORD TO CORRECT THE NUMBER OF MICROFILM PAGES FROM 4 TO 2 AT REEL 8833, FRAME 0966; ASSIGNORS:KUMAR, AJAY; DAMJI, DHIRENDRA C.; CHIESA, DANIEL A.; AND OTHERS; REEL/FRAME:009280/0111; SIGNING DATES FROM 19971113 TO 19971114
US5890035 A	19990303	LSGT	PAT1	Patented Case	
US5890035 A	20020628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY INTEREST; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:013153/0001 EFFECTIVE DATE : 20020621
US5890035 A	20020715	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5890035 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5890035 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5890035 A	20060712	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5890035 A	20100720	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5890035 A	20171114	PEXP		Calculated Patent Term Expiry	

Title: Charging device having an electrode with integral electrical connector

Abstract: A charging apparatus for applying a uniform electrostatic charge to a charge retentive surface is provided. The charging apparatus is operably electrically connectable to a power supply for supplying an electrical bias to the charging apparatus. The apparatus includes a housing and an electrode mounted to the housing and positioned adjacent the surface in a non-contact relationship therewith. The apparatus also includes an electrical connector, electrically connected to the electrode and electrically connectable to the power supply. The electrical connector provides an electrical bias to said electrode. The electrical connector extends from the electrode and is integral therewith.

Classifications:

International (IPC 8-9): G03G15/02 G03G21/18 (Advanced/Invention);
G03G15/02 G03G21/18 (Core/Invention)

International (IPC 1-7): G03G15/02 G03G21/18 H01T19/04

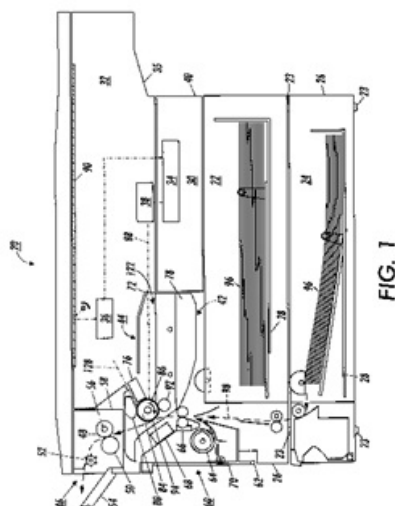
CPC: G03G15/0291

European: G03G15/02

US: 250/325 399/111 399/170 399/90

PatBase - US5907753_A

U.S. Patent May 25, 1999 Sheet 1 of 11 5,907,753



Family:

Publication number	Publication date	Application number	Application date
BRPI9804633 A	19991103	BR1998PI04633	19981112
DE69807027 D1	20020912	DE19986007027	19981106
DE69807027 T2	20021205	DE19986007027T	19981106
EP0917010 A2	19990519	EP19980121234	19981106
EP0917010 A3	20001018	EP19980121234	19981106
EP0917010 B1	20020807	EP19980121234	19981106
JP11219001 A2	19990810	JP19980324315	19981116
US5907753 A	19990525	US19970971098	19971114

Priority:

US19970971098 19971114

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): XEROX CORP ROCHESTER ; BANK ONE NA ADMINISTRATIVE AGENT AS ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): BRYANT JERRY W ; CHIESA DANIEL A ; DAMJI DHIRENDA C ; DAMJI DHIRENDRA C ; KUMAR AJAY

Inventor(s): AJAY KUMAR ; DANIEL A CHIESA ; DHIRENDA C DAMJI ; JERRY W BRYANT

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI9804633 A	19991103	LSPB	+	published / reissued	
BRPI9804633 A	20081007	LSSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI9804633 A	20090630	LSRV	B09B	DECISION: REFUSAL	TEXT : INDEFERIDO COM BASE NO ART. 80 COMBINADO COM O ART. 13 DA LPI

BRPI9804633 A	20090929	LSRV	B09B	DECISION: REFUSAL	TEXT : MANTIDO O INDEFERIMENTO UMA VEZ QUE NAO FOI APRESENTADO RECURSO DENTRO DO PRAZO LEGAL.
DE69807027 D1	20030904	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69807027 D1	20051103	LSLI	8320	WILLINGNESS TO GRANT LICENCES DECLARED (PARAGRAPH 23)	
DE69807027 T2	20021205	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69807027 T2	20181106	PEXP		Calculated Patent Term Expiry	
EP0917010 A2	19990519	LSPB	+	published / reissued	
EP0917010 A3	20001018	LSRE	RIC1	CLASSIFICATION (CORRECTION)	TEXT : 7G 03G 15/02 A, 7H 01T 19/04 B
EP0917010 A3	20010103	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20001019
EP0917010 A3	20010307	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20010118
EP0917010 A3	20010704	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : DE FR GB
EP0917010 B1	20020807	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0917010 B1	20020807	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0917010 B1	20030730	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20030508
EP0917010 B1	20050831	LSLI	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : 746 EFFECTIVE DATE : 20050809
EP0917010 B1	20151023	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP0917010 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151027 YEAR OF FEE PAYMENT : 18
EP0917010 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151022 YEAR OF FEE PAYMENT : 18
EP0917010 B1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151023 YEAR OF FEE PAYMENT : 18
EP0917010 B1	20170601	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69807027 COUNTRY OF REF DOCUMENT : DE
EP0917010 B1	20170726	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20161106
EP0917010 B1	20170825	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20170731
EP0917010 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161130
EP0917010 B1	20171130	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT : DE

EP0917010 B1	20171130	LSLE	-PG25	CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170601
				LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161106
EP0917010 B1	20181106	PEXP		Calculated Patent Term Expiry	
JP11219001 A2	19990810	LSPB	+	published / reissued	
JP11219001 A2	20051019	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20051018
JP11219001 A2	20080618	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080617
JP11219001 A2	20080917	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080916
JP11219001 A2	20090218	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20090217
JP11219001 A2	20090610	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20090609
US5907753 A	19990525	LSGT	+	granted / extensions (spc, cpc, pte)	
US5907753 A	19971114	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KUMAR, AJAY; DEMJI, DHIRENDRA C.; CHIESA, DANIEL A.; AND OTHERS; REEL/FRAME:008819/0638; SIGNING DATES FROM 19971113 TO 19971114
US5907753 A	19990514	LSGT	PAT1	Patented Case	
US5907753 A	20020628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY INTEREST; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:013153/0001 EFFECTIVE DATE : 20020621
US5907753 A	20020913	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5907753 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5907753 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5907753 A	20060912	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5907753 A	20100913	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5907753 A	20171114	PEXP		Calculated Patent Term Expiry	

Title: MOLDED QUICK CHANGE PHOTORECEPTOR SUPPORT

Abstract: A supporting apparatus for supporting a photoconductive member within the housing of a printing cartridge for use in a printing machine is provided. The supporting apparatus includes a body, a connecting feature and a supporting feature. The connecting feature is connected to the body for quick and removable connection to the housing. The supporting feature is connected to the body cooperating with the body for rotatably supporting the photoconductive member within the housing.

Classifications:

International (IPC 8-9): G03G15/00 G03G21/18 (Advanced/Invention); G03G15/00 G03G21/18 (Core/Invention)

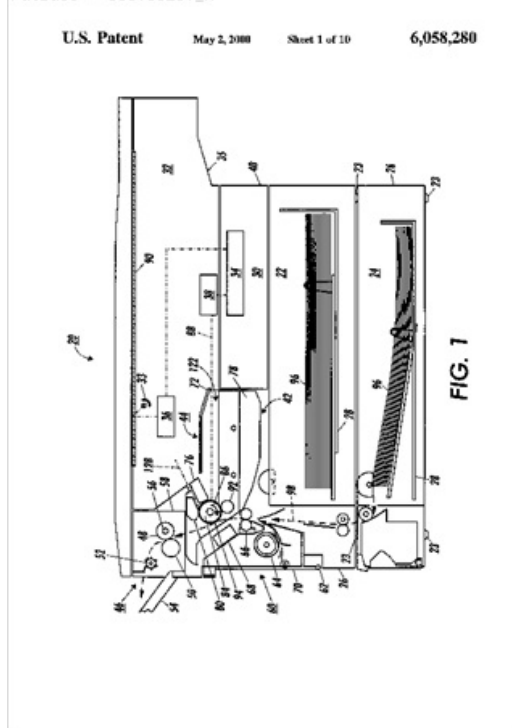
International (IPC 1-7): G03G15/00 G03G21/18

CPC: G03G21/1647 G03G21/1671 G03G21/1842 G03G15/751 G03G2221/1606 G03G2221/183

European: G03G15/75B G03G21/18H1 S03G221/16B S03G221/18P

US: 399/117

PatBase - US6058280_A



Family:

Publication number	Publication date	Application number	Application date
BRPI9804615 A	19991103	BR1998PI04615	19981112
BRPI9804615 B1	20090811	BR1998PI04615	19981112
DE69807171 D1	20020919	DE19986007171	19981106
DE69807171 T2	20021205	DE19986007171T	19981106
EP0917007 A2	19990519	EP19980121233	19981106
EP0917007 A3	20001018	EP19980121233	19981106
EP0917007 B1	20020814	EP19980121233	19981106
JP11219092 A2	19990810	JP19980324318	19981116
US6058280 A	20000502	US19970970313	19971114

Priority:

US19970970313 19971114

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): XEROX CORP ROCHESTER ; BANK ONE NA ADMINISTRATIVE AGENT AS ; BANK ONE NA AS ADMINISTRATIVE AGENT ; JPMORGAN CHASE BANK AS COLLATERAL AGENT ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): DAMJI DHIRENDA C ; DAMJI DHIRENDR C ; KUMAR AJAY

Inventor(s): AJAY KUMAR ; DHIRENDR C DAMJI

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
BRPI9804615 A	19991103	LSPB	+	published / reissued	
BRPI9804615 A	20090225	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI9804615 A	20090811	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	TEXT : PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 11/08/2009, OBSERVADAS AS CONDICÖES LEGAIS.
BRPI9804615 A	20160927	LSLE	-B21F	LAPSE ACC. ART. 78, ITEM	TEXT : REFERENTE A 18A ANUIDADE.

BRPI9804615 A	20170117	LSLE	-B24J	IV - ON NON-PAYMENT OF THE ANNUAL FEES IN TIME LAPSE BECAUSE OF NON-PAYMENT OF ANNUAL FEES (DEFINITELY: ART 78 IV LPI, RESOLUTION 113/2013 ART. 12)	TEXT : EM VIRTUDE DA EXTINCAO PUBLICADA NA RPI 2386 DE 27-09-2016 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDA A EXTINCAO DA PATENTE E SEUS CERTIFICADOS, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
BRPI9804615 B1	20181112	PEXP		Calculated Patent Term Expiry	
DE69807171 D1	20030911	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69807171 D1	20051027	LSLI	8320	WILLINGNESS TO GRANT LICENCES DECLARED (PARAGRAPH 23)	
DE69807171 T2	20021205	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69807171 T2	20181106	PEXP		Calculated Patent Term Expiry	
EP0917007 A2	19990519	LSPB	+	published / reissued	
EP0917007 A3	20010103	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20001019
EP0917007 A3	20010307	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20010118
EP0917007 A3	20010704	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : DE FR GB
EP0917007 B1	20020814	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0917007 B1	20020814	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0917007 B1	20030806	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20030515
EP0917007 B1	20050831	LSLI	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : 746 EFFECTIVE DATE : 20050809
EP0917007 B1	20151023	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP0917007 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151027 YEAR OF FEE PAYMENT : 18
EP0917007 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151022 YEAR OF FEE PAYMENT : 18
EP0917007 B1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151023 YEAR OF FEE PAYMENT : 18
EP0917007 B1	20170601	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69807171 COUNTRY OF REF DOCUMENT : DE
EP0917007 B1	20170726	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20161106

EP0917007 B1	20170825	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20170731
EP0917007 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161130
EP0917007 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : GB NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161106
EP0917007 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170601
EP0917007 B1	20181106	PEXP		Calculated Patent Term Expiry	
JP11219092 A2	19990810	LSPB	+	published / reissued	
JP11219092 A2	20051103	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20051102
JP11219092 A2	20070516	LSWD	-A761	WRITTEN WITHDRAWAL OF APPLICATION	TEXT : JAPANESE INTERMEDIATE CODE: A761 EFFECTIVE DATE : 20070515
US6058280 A	20000502	LSGT	+	granted / extensions (spc, cpc, pte)	
US6058280 A	19971114	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: KUMAR, AJAY; DAMJI, DHIRENDRA C.; REEL/FRAME: 008817/0516 EFFECTIVE DATE : 19971113
US6058280 A	20000421	LSGT	PAT1	Patented Case	
US6058280 A	20020628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY INTEREST; ASSIGNOR: XEROX CORPORATION; REEL/FRAME: 013153/0001 EFFECTIVE DATE : 20020621
US6058280 A	20030911	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6058280 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR: XEROX CORPORATION; REEL/FRAME: 015134/0476 EFFECTIVE DATE : 20030625
US6058280 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR: XEROX CORPORATION; REEL/FRAME: 015134/0476 EFFECTIVE DATE : 20030625
US6058280 A	20070911	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6058280 A	20110914	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6058280 A	20171114	PEXP		Calculated Patent Term	

Title: Charging device having a shield with integral electrical connector

Abstract: A charging apparatus for applying a uniform electrostatic charge to a charge retentive surface is provided. The charging apparatus is operably electrically connectable to a power supply for supplying an electrical bias to the charging apparatus. The apparatus includes a housing and an electrode mounted to the housing and positioned adjacent the surface in a non-contact relationship therewith. The apparatus also includes a shield connected to the housing and at least partially surrounding the electrode. The apparatus also includes an electrical connector, electrically connected to the shield and electrically connectable to the power supply for providing an electrical bias to the shield. The electrical connector extends from the shield and is integral therewith.

Classifications:

International (IPC 8-9): G03G15/02 G03G21/18 (Advanced/Invention); G03G15/02 G03G21/18 (Core/Invention)

International (IPC 1-7): G03G15/00 G03G15/02 G03G21/18 H01T19/04

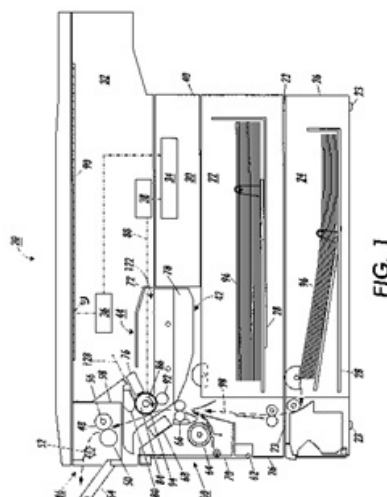
CPC: G03G15/0291

European: G03G15/02

US: 250/324 399/115 399/172 399/90

PatBase - US5987276_R

U.S. Patent Nov. 16, 1999 Sheet 1 of 12 5,987,276



Family:

Publication number	Publication date	Application number	Application date
BRPI9804614 A	19991103	BR1998PI04614	19981112
BRPI9804614 B1	20100713	BR1998PI04614	19981112
DE69807028 D1	20020912	DE19986007028	19981106
DE69807028 T2	20021205	DE19986007028T	19981106
EP0917011 A2	19990519	EP19980121235	19981106
EP0917011 A3	20001025	EP19980121235	19981106
EP0917011 B1	20020807	EP19980121235	19981106
JP11219002 A2	19990810	JP19980324316	19981116
US5987276 A	19991116	US19970971015	19971114

Priority:

US19970971015 19971114

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): XEROX CORP ROCHESTER ; BANK ONE NA ADMINISTRATIVE AGENT AS ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): BRYANT JEERY W ; BRYANT JERRY W ; CHIESA DANIEL A ; DAMJI DHIRENDRA C ; KUMAR AJAY

Inventor(s): AJAY KUMAR ; DANIEL A CHIESA ; DHIRENDRA C DAMJI ; JEERY W BRYANT

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI9804614 A	19991103	LSPB	+	published / reissued	
BRPI9804614 A	20090825	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI9804614 B1	20100713	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	TEXT : PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 13/07/2010, OBSERVADAS AS CONDICÖES LEGAIS.

BRPI9804614 B1	20181112	PEXP		Calculated Patent Term Expiry	
DE69807028 D1	20030904	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69807028 D1	20051103	LSLI	8320	WILLINGNESS TO GRANT LICENCES DECLARED (PARAGRAPH 23)	
DE69807028 T2	20021205	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69807028 T2	20181106	PEXP		Calculated Patent Term Expiry	
EP0917011 A2	19990519	LSPB	+	published / reissued	
EP0917011 A2	20001018	LSRE	RIC1	CLASSIFICATION (CORRECTION)	TEXT : 7G 03G 15/02 A, 7H 01T 19/04 B
EP0917011 A3	20010103	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20001019
EP0917011 A3	20010307	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20010118
EP0917011 A3	20010718	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : DE FR GB
EP0917011 B1	20020807	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0917011 B1	20020807	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0917011 B1	20030730	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20030508
EP0917011 B1	20050831	LSLI	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : 746 EFFECTIVE DATE : 20050809
EP0917011 B1	20151023	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP0917011 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151022 YEAR OF FEE PAYMENT : 18
EP0917011 B1	20160129	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151027 YEAR OF FEE PAYMENT : 18
EP0917011 B1	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151023 YEAR OF FEE PAYMENT : 18
EP0917011 B1	20170601	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 69807028 COUNTRY OF REF DOCUMENT : DE
EP0917011 B1	20170726	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20161106
EP0917011 B1	20170825	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20170731
EP0917011 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : FR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161130
EP0917011 B1	20171130	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT : GB

				CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20161106
EP0917011 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170601
EP0917011 B1	20181106	PEXP		Calculated Patent Term Expiry	
JP11219002 A2	19990810	LSPB	+	published / reissued	
JP11219002 A2	20051019	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20051018
JP11219002 A2	20080618	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080617
JP11219002 A2	20080905	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080904
JP11219002 A2	20081001	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20080930
US5987276 A	19991116	LSGT	+	granted / extensions (spc, cpc, pte)	
US5987276 A	19971114	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KUMAR, AJAY; DAMJI, DHIRENDRA C.; CHIESA, DANIEL A.; AND OTHERS; REEL/FRAME:008819/0668; SIGNING DATES FROM 19971113 TO 19971114
US5987276 A	19991108	LSGT	PAT1	Patented Case	
US5987276 A	20020628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY INTEREST; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:013153/0001 EFFECTIVE DATE : 20020621
US5987276 A	20030313	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5987276 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5987276 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5987276 A	20070507	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5987276 A	20110322	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5987276 A	20150523	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, NEW YORK OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK ONE, NA; REEL/FRAME:035760/0054 EFFECTIVE DATE : 20030625
US5987276 A	20171114	PEXP		Calculated	

Title: PRINTING CARTRIDGE WITH PLANAR DRIVE TRAIN

Abstract: A process cartridge for use in a printing machine is provided. The process cartridge includes a housing having a first support surface and a second support surface. The housing further includes a first member rotatably secured to the housing at the first support surface and the second support surface. The housing further includes a second member spaced from the first member and rotatably secured to the housing at the first support surface and the second support surface. The housing further includes a first gear operably associated with the first member and rotatable therewith. The housing further includes a second gear operably associated with the second member and rotatable therewith. The first gear and the second gear are positioned adjacent the first support surface.

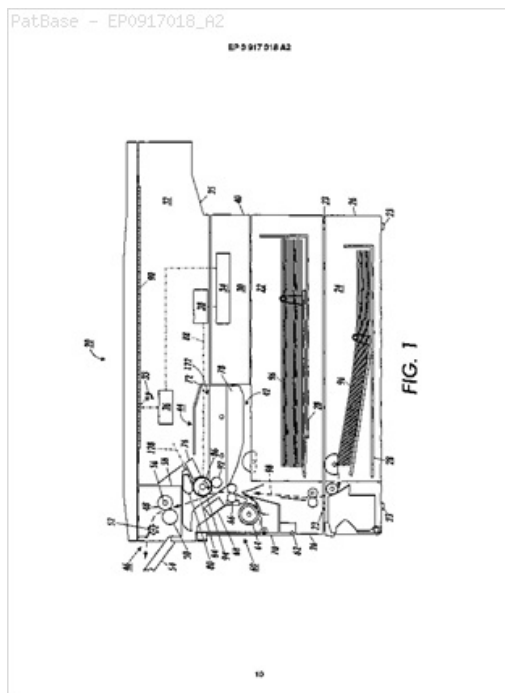
Classifications:

International (IPC 8-9): G03G21/18 (Advanced/Invention);
G03G21/18 (Core/Invention)

International (IPC 1-7): G03G21/18

CPC: G03G21/1857 G03G2221/1657

European: G03G21/18H2 S03G221/16K2



Family:

Publication number	Publication date	Application number	Application date
BRPI9804613 A	19991103	BR1998PI04613	19981112
EP0917018 A2	19990519	EP19980121002	19981105
JP11219093 A2	19990810	JP19980324319	19981116

Priority:

US19970971010 19971114

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Inventor(s): (std): DAMJI DHIRENDRA C ; KUMAR AJAY

Inventor(s): AJAY KUMAR ; DHIRENDRA C DAMJI

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI9804613 A	19991103	LSPB	+	published / reissued	
BRPI9804613 A	20031028	LSRV	-FA10	DISMISSAL: DISMISSAL - ARTICLE 33 OF INDUSTRIAL PROPERTY LAW	
EP0917018 A2	19990519	LSPB	+	published / reissued	
EP0917018 A2	20000607	LSRE	RIC1	CLASSIFICATION (CORRECTION)	TEXT : 7G 03G 21/18 A, 7G 03G 15/00 B, 7G 03G 15/09 B
EP0917018 A2	20020109	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20010601
JP11219093 A2	19990810	LSPB	+	published / reissued	

Title: Non-contacting photoreceptor cover

Abstract: A cover for protecting from undesired exposure a photoconductive member assembled to the housing of a printing cartridge for use in a printing machine is provided. The housing includes an aperture periphery defining an aperture therein for communication of illumination from an illumination source with the photoconductive member. The cover includes a first portion positionable adjacent the housing, a second portion operably associated with the first portion and at least partially extendible between the illumination source and the photoconductive member for protecting a substantial portion of the photoconductive member from exposure, a third portion operably associated with the second portion, the third portion removably securable to the housing, and a fourth portion operably associated with the third portion. The fourth portion is utilized for removal of the cover. As the third portion is pulled from the housing the third portion is directed along a path spaced from the photoconductive member.

Classifications:

International (IPC 8-9): G03G15/00 G03G21/00

G03G21/18 (Advanced/Invention);

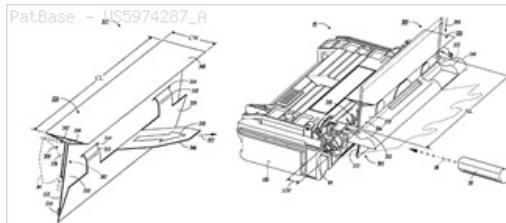
G03G15/00 G03G21/00 G03G21/18 (Core/Invention)

International (IPC 1-7): G03G15/00 G03G21/00 G03G21/18

CPC: G03G15/75 G03G21/1832 G03G2221/1609

European: G03G15/75 G03G21/18C5S S03G221/16B1

US: 399/114



Family:

Publication number	Publication date	Application number	Application date
JP11327362 A2	19991126	JP19990079039	19990324
JP4282816 B2	20090624	JP19990079039	19990324
US5974287 A	19991026	US19980050684	19980330

Priority:

US19980050684 19980330

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): BANK ONE NA ADMINISTRATIVE AGENT AS ; JPMORGAN CHASE BANK COLLATERAL AGENT AS

Inventor(s): (std): CHIESA DANIEL A ; KURZ KARL E ; CARL E CURS

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP11327362 A2	19991126	LSPB	+	published / reissued	
JP11327362 A2	20060325	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20060324
JP11327362 A2	20080730	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080729
JP11327362 A2	20081105	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20081104
JP11327362 A2	20090209	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP11327362 A2	20090218	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20090217
JP11327362 A2	20090219	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP11327362 A2	20090326	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20090318
JP11327362 A2	20090327	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP11327362 A2	20090330	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP4282816 B2	20090624	LSGT	+	granted / extensions (spc, cpc, pte)	

JP4282816 B2	20120301	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP4282816 B2	20120306	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP4282816 B2	20130312	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP4282816 B2	20140311	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4282816 B2	20150327	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP4282816 B2	20190324	PEXP		Calculated Patent Term Expiry	
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US5974287 A	19980330	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KURZ, KARL E.; CHIESA, DANIEL A.; REEL/FRAME:009131/0201 EFFECTIVE DATE : 19980327
US5974287 A	19991018	LSGT	PAT1	Patented Case	
US5974287 A	20020628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY INTEREST; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:013153/0001 EFFECTIVE DATE : 20020621
US5974287 A	20030307	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5974287 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5974287 A	20031031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, AS COLLATERAL AGENT, TEXAS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:015134/0476 EFFECTIVE DATE : 20030625
US5974287 A	20070213	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5974287 A	20110222	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5974287 A	20180330	PEXP		Calculated Patent Term Expiry	

Title: METHOD AND APPARATUS FOR PRODUCT REGIONALIZATION

Abstract: Disclosed is a method of regionalizing a product for specific markets for the purposes of language localization, insuring compliance with local laws and standards, or theft prevention. The method is applicable to goods comprising an initially-sold machine or device and consumable items required by the machine or device. The method comprises regionalizing the consumable items; the first-installed consumable used in the machine or device then causes the machine or device to be regionalized, such that the machine or device subsequently only accepts consumables with the same regionalization. Also disclosed are apparatus to implement the method.

Classifications:

International (IPC 8-9): B41J2/175 G03G15/08 G03G21/00

G03G21/18 G06F15/00 G06F9/44 G06K9/00

G09F3/00 (Advanced/Invention);

G06F9/44 (Advanced/Non-invention);

B41J2/175 G03G15/08 G03G21/18 G06F9/44 (Core/Invention);

G06F (Subclass/Invention)

International (IPC 1-7): B41J2/01 B41J2/14 B41J2/16 B41J2/165

B41J2/175 B41J2/435 B41J2/38 B41J2/393 G03G15/00 G03G15/08

G03G21/00 G03G21/18 G06F9/44 G06K15/02 G07C11/00 H04L9/00

CPC: G03G15/0855 G03G15/0856 G03G15/0865 G03G15/0863

G03G15/0894 G03G2215/0697 B41J2/17503 G03G21/1892

G03G21/1882 G03G21/1889 B41J2/17546 B41J2/17509 B41J2/17523

B41J2/17566 G03G21/181 G03G21/1878 G03G2215/00987

G03G221/1606 G03G221/1639 G03G221/1823 G06Q20/401

European: B41J2/175C B41J2/175C1A B41J2/175C3A

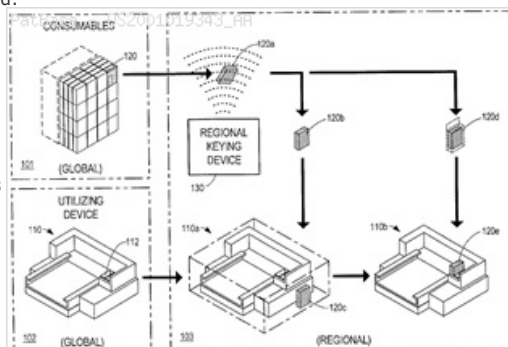
B41J2/175C7E B41J2/175L G03G15/08H3 G03G21/18C2

G03G21/18L1 G03G21/18L1C G03G21/18L1L G03G21/18L1P G06Q20/401 S03G215/00R S03G215/06C8E S03G221/16B

S03G221/16F S03G221/18E

US: 347/14 347/19 347/32 347/50 347/7 347/86 347/86P 358/1.1 358/1.14 358/1.15 358/1.150S 380/22 380/30

399/10 399/12 399/24 399/8 399/81 399/9 400/208 705/75 713/168

**Family:**

Publication number	Publication date	Application number	Application date
AU2002237968 AA	20020812	AU20020237968	20020128
AU2002237968 BB	20070607	AU20020237968	20020128
BRPI0207107 A	20070102	BR2002PI07107	20020128
CA2436712 AA	20030729	CA20022436712	20020128
CA2436712 C	20130122	CA20022436712	20020128
CN100363889 C	20080123	CN20028007801	20020128
CN101085577 A	20071212	CN200710137125	20020128
CN101085577 B	20100929	CN200710137125	20020128
CN1520548 A	20040811	CN20028007801	20020128
DE10040456 A1	20010503	DE20001040456	20000818
DE10040456 B4	20051117	DE20001040456	20000818
DE10042914 A1	20010419	DE20001042914	20000831
DE10043762 A1	20010419	DE20001043762	20000905
DE60032845 D1	20070222	DE20006032845	20000927
DE60032845 T2	20070830	DE20006032845T	20000927
EP1088667 A1	20010404	EP20000308475	20000927
EP1088668 A1	20010404	EP20000308476	20000927
EP1088668 B1	20070110	EP20000308476	20000927
EP1386228 A2	20040204	EP20020704276	20020128
GB200023694 A0	20001108	GB20000023694	20000927
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GB2354735 B2	20030730	GB20000023694	20000927
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HK1066888 A3	20050401	HK20040109806	20041210
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KR100867080 B1	20081104	KR20037010051	20020128
KR20030072612 A	20030915	KR20037010051	20020128
MXPA03006739 A1	20031024	MX2003PA06739	20020128
PL368459 A1	20050321	PL20020368459	20020128
RU2003126483 A	20050310	RU20030126483	20020128
RU2276412 C2	20060510	RU20030126483	20020128
US2001019343 AA	20010906	US20010773479	20010131
US2002030714 AA	20020314	US20010943477	20010830
US2002171703 AA	20021121	US20020195113	20020712
US2003058314 AA	20030327	US20020283871	20021030
US6019449 A	20000201	US19980092111	19980605
US6039430 A	20000321	US19980148039	19980903
US6233409 BA	20010515	US20000480545	20000110
US6295423 BA	20010925	US20000480543	20000110
US6302527 BA	20011016	US19990415331	19991008
US6312106 BA	20011106	US19990295080	19990420
US6332062 BA	20011218	US20000479957	20000110
US6494562 BA	20021217	US19990410989	19991001
US6676240 BB	20040113	US20010943477	20010830
US6738903 BA	20040518	US20000480537	20000110
US6808255 BA	20041026	US20000479958	20000110
US6817693 BB	20041116	US20020195113	20020712

US6863377 BB	20050308	US20020283871	20021030
US7110127 BB	20060919	US20010773479	20010131
WO02061578 A2	20020808	WO2002US02556	20020128
WO02061578 C1	20031113	WO2002US02556	20020128

Priority:

US19980092111 19980605	US19980148039 19980903	US19990295080 19990420
US19990410989 19991001	US19990415331 19991008	US20000479957 20000110
US20000480545 20000110	US20000480543 20000110	US20000480537 20000110
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US20010943477 20010830	WO2002US02556 20020128	US20020195113 20020712
US20020283871 20021030	WO2002US02556 20030730	

Probable Assignee: HEWLETT PACKARD CO

Assignee(s): (std): HEWLETT PACKARD CO N D GE ; HEWLETT PACKARD DEV CO LP ; HEWLETT PACKARD DEVELOPMENT CO ; WESTLY WAYNE LEAMAN ; WALKER RAY A ; HEWLETT PACKARD CO

Assignee(s): HEWLETT PACKARD CO A DELAWARE CORP ; ZAREMBA ANDREW JOSEPH ; PHILLIPS QUINTIN T ; HEWLETT PACKARD CO PALO ALTO ; HEWLETT PACKARD DEVELOPMENT CO L P ; HEWLETT PACKARD CO N D GES D STAATES DELAWARE PALO ALTO ; HEWLETT PACKARD CO NDGESDSTAATES DELAWARE PALO ALTO ; HEWLETT PACKARD CO A DELAWARE CORPORATION ; HP INC ; HEWLETT PACKARD DEVELOPMENT CO LP ; BOOCKHOLDT DARIUS ; BULLOCK MICHAEL L ; BURQUIST JOSEPH L ; HAINES ROBERT E ; HARPER MARK A

Inventor(s): (std): BAUMUNK MARY B ; BOOCKHOLDT DARIUS ; BURQUIST JOSEPH L ; CHRISTENSEN K TRENT ; HAINES ROBERT E ; HARPER MARK A ; HEUSINKVELD JAKE ; PHILLIPS QUINTIN T ; RODRIGUEZ SANTIAGO ; WALKER RAY ; ZAREMBA ANDREW JOSEPH ; ZAREMBA A J ; WL WESTLY ; WESTLY WAYNE LEAMAN ; WESTLY W L ; WAYNE LEAMAN WESTLY ; WALKER RAY A ; WALKER R A ; HELTERLINE BRIAN L ; ANDREW JOSEPH ZAREMBA ; AJ ZAREMBA ; RAY A WALKER ; RA WALKER ; ZAREMBA EHNDRJU DZHOZEF ; LEAMAN WESTLY WAYNE ; JOSEPH ZAREMBA ANDREW ; CHILDERS WINTHROP D ; BULLOCK MICHAEL L ; UOLKER REHJ A ; UEHSTLI UEHJN LIMEHN

Inventor(s): ROBERT E HAINES ; R A WALKER ; A J ZAREMBA ; W L WESTLY ; RAY WALKER

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; 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 UZ VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2002237968 AA	20020812	LSPB	+	published / reissued	
AU2002237968 BB	20070607	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2002237968 BB	20071004	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2002237968 BB	20120802	LSAS	PC	ASSIGNMENT REGISTERED	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. OLDPARTY : FORMER OWNER WAS: HEWLETT-PACKARD COMPANY
AU2002237968 BB	20220128	PEXP		Calculated Patent Term Expiry	
BRPI0207107 A	20070102	LSPB	+	published / reissued	
BRPI0207107 A	20140429	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI0207107 A	20140916	LSRV	B09B	DECISION: REFUSAL	TEXT : INDEFIRO O PEDIDO DE ACORDO COM O ARTIGO 80 COMBINADO COM ARTIGO 13 DA LPI
BRPI0207107 A	20141223	LSRV	B09B	DECISION: REFUSAL	TEXT : MANTIDO O INDEFERIMENTO UMA VEZ QUE NAO FOI APRESENTADO RECURSO DENTRO DO PRAZO LEGAL.
CA2436712 AA	20030729	LSPB	+	published / reissued	
CA2436712 AA	20040406	LSES	+EEER	EXAMINATION REQUEST	
CA2436712 C	20130122	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2436712 C	20220128	PEXP		Calculated Patent Term Expiry	
CN100363889 C	20080123	LSGT	+	granted / extensions (spc, cpc, pte)	

CN100363889 C	20080123	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100363889 C	20080905	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1066888 COUNTRY OF REF DOCUMENT : HK
CN100363889 C	20120530	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. OLDPARTY : FORMER OWNER: HEWLETT-PACKARD CO. (US) P.O. BOX 10301, PALO ALTO CALIFORNIA U.S.A. EFFECTIVE DATE : 20120423
CN100363889 C	20120530	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN100363889 C	20220128	PEXP		Calculated Patent Term Expiry	
CN101085577 A	20071212	LSPB	+	published / reissued	
CN101085577 A	20071212	LSPB	+C06	PUBLICATION	
CN101085577 B	20100929	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101085577 B	20100929	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101085577 B	20220128	PEXP		Calculated Patent Term Expiry	
CN1520548 A	20040811	LSPB	+	published / reissued	
CN1520548 A	20040811	LSPB	+C06	PUBLICATION	
DE10040456 A1	20010503	LSPB	+	published / reissued	
DE10040456 A1	20010503	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE10040456 A1	20010802	LSAS	8127	NEW PERSON/NAME/ADDRESS OF THE APPLICANT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD CO. (N.D.GES.D.STAATES DELAWARE),
DE10040456 A1	20050525	LSAS	8127	NEW PERSON/NAME/ADDRESS OF THE APPLICANT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT CO., L.P., HOUSTON, TE
DE10040456 B4	20051117	LSGT	+	granted / extensions (spc, cpc, pte)	
DE10040456 B4	20060518	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE10040456 B4	20200818	PEXP		Calculated Patent Term Expiry	
DE10042914 A1	20010419	LSPB	+	published / reissued	
DE10042914 A1	20010419	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE10042914 A1	20120416	LSAL	R011	ALL APPEALS REJECTED, REFUSED OR OTHERWISE SETTLED	
DE10042914 A1	20120802	LSRV	-R003	REFUSAL DECISION NOW FINAL	EFFECTIVE DATE : 20120416
DE10043762 A1	20010419	LSPB	+	published / reissued	
DE10043762 A1	20010419	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE10043762 A1	20040805	LSWD	-8130	WITHDRAWAL	
DE60032845 D1	20070726	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT CO., L.P., HOUSTON, US
DE60032845 D1	20080131	LSGT	+8364	NO OPPOSITION	

DE60032845 T2	20070830	LSGT	+	DURING TERM OF OPPOSITION granted / extensions (spc, cpc, pte)	
DE60032845 T2	20200927	PEXP		Calculated Patent Term Expiry	
EP1088667 A1	20010404	LSPB	+	published / reissued	
EP1088667 A1	20010502	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD COMPANY, A DELAWARE CORPORATION
EP1088667 A1	20010530	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20010404
EP1088667 A1	20020102	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	TEXT : DE FR GB
EP1088667 A1	20040609	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20040422
EP1088667 A1	20060111	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20050621
EP1088668 A1	20010404	LSPB	+	published / reissued	
EP1088668 A1	20010502	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD COMPANY, A DELAWARE CORPORATION
EP1088668 A1	20010530	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20010402
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EP1088668 A1	20040616	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20040429
EP1088668 A1	20161031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160823 YEAR OF FEE PAYMENT : 17
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EP1088668 A1	20161130	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160822 YEAR OF FEE PAYMENT : 17
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EP1088668 B1	20071219	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20071011
EP1088668 B1	20160822	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 : 17
EP1088668 B1	20170822	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 18
EP1088668 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170821 YEAR OF FEE PAYMENT : 18
EP1088668 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170821 YEAR OF FEE PAYMENT : 18
EP1088668 B1	20171031	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170822 YEAR OF FEE PAYMENT : 18
EP1088668 B1	20200927	PEXP		Calculated Patent Term Expiry	

EP1386228 A2	20040204	LSPB	+	published / reissued	
EP1386228 A2	20040204	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030811
EP1386228 A2	20120111	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.
EP1386228 A2	20130508	LSWD	-18W	APPLICATION WITHDRAWN	EFFECTIVE DATE : 20130321
GB2354735 A1	20010404	LSPB	+	published / reissued	
GB2354735 B2	20030730	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2354735 B2	20200927	PEXP		Calculated Patent Term Expiry	
HK1066888 A1	20080905	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1066888 A1	20241210	PEXP		Calculated Patent Term Expiry	
HK1066888 A3	20050401	LSPB	+	published / reissued	
IN01002KN2003 A	20060203	LSPB	+	published / reissued	
IN235827 B	20090904	LSGT	+	granted / extensions (spc, cpc, pte)	
IN235827 B	20230805	PEXP		Calculated Patent Term Expiry	
JP2005503937 T2	20050210	LSPB	+	published / reissued	
JP2005503937 T2	20050124	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20050121
JP2005503937 T2	20071105	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20071102
JP2005503937 T2	20080129	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20080128
JP2005503937 T2	20080327	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2005503937 T2	20080402	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20080401
JP2005503937 T2	20080417	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20080409
JP2005503937 T2	20080418	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2005503937 T2	20080421	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP4112367 B2	20080702	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4112367 B2	20080403	LSGT	+A01	特許査定書 Decision of patent grant	
JP4112367 B2	20080415	LSFE	R100	特許料納付書 Patent fee payment form	
JP4112367 B2	20110414	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP4112367 B2	20110419	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP4112367 B2	20120412	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP4112367 B2	20120417	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5

JP4112367 B2	20120913	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP4112367 B2	20120913	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313113
JP4112367 B2	20121004	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP4112367 B2	20121116	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP4112367 B2	20121119	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313113
JP4112367 B2	20121128	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP4112367 B2	20121128	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP4112367 B2	20130404	LSFE	R20	特許料納付書 Patent fee payment form	
JP4112367 B2	20130409	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP4112367 B2	20140403	LSFE	R20	特許料納付書 Patent fee payment form	
JP4112367 B2	20140408	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4112367 B2	20150402	LSFE	R20	特許料納付書 Patent fee payment form	
JP4112367 B2	20150407	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4112367 B2	20160407	LSFE	R20	特許料納付書 Patent fee payment form	
JP4112367 B2	20160412	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4112367 B2	20170330	LSFE	R20	特許料納付書 Patent fee payment form	
JP4112367 B2	20170404	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4112367 B2	20220128	PEXP		Calculated Patent Term Expiry	
KR100867080 B1	20081104	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100867080 B1	20121009	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20121010 YEAR OF FEE PAYMENT : 5
KR100867080 B1	20131007	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20131007 YEAR OF FEE PAYMENT : 6
KR100867080 B1	20220128	PEXP		Calculated Patent Term Expiry	
KR20030072612 A	20030915	LSPB	+	published / reissued	
KR20030072612 A	20070126	LSSES	A201	REQUEST FOR EXAMINATION	
KR20030072612 A	20080410	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20030072612 A	20081010	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20030072612 A	20081029	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
MXPA03006739 A1	20031024	LSPB	+	published / reissued	
MXPA03006739 A1	20070612	LSGT	+FG	GRANT OR REGISTRATION	

PL368459 A1	20050321	LSPB	+	published / reissued	
PL368459 A1	20091130	LSRV	-REFS	DECISIONS ON REFUSAL TO GRANT PATENTS (TAKEN AFTER THE PUBLICATION OF THE PARTICULARS OF THE APPLICATIONS)	
RU2003126483 A	20050310	LSPB	+	published / reissued	
RU2276412 C2	20060510	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2276412 C2	20130420	LSLI	PC41	OFFICIAL REGISTRATION OF THE TRANSFER OF EXCLUSIVE RIGHT	EFFECTIVE DATE : 20130305
RU2276412 C2	20220128	PEXP		Calculated Patent Term Expiry	
US2001019343 AA	20010906	LSPB	+	published / reissued	
US2001019343 AA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT-PACKARD COMPANY; REEL/FRAME:014061/0492 EFFECTIVE DATE : 20030926
US2001019343 AA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY L.P.,TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT-PACKARD COMPANY; REEL/FRAME:014061/0492 EFFECTIVE DATE : 20030926
US2002030714 AA	20020314	LSPB	+	published / reissued	
US2002171703 AA	20021121	LSPB	+	published / reissued	
US2002171703 AA	20030210	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD COMPANY, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PHILLIPS, QUINTIN; BURQUIST, JOSEPH L.; BOOCKHOLDT, DARIUS; AND OTHERS; REEL/FRAME:013426/0464; SIGNING DATES FROM 20020619 TO 20020709
US2002171703 AA	20030618	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., COLORAD OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT-PACKARD COMPANY; REEL/FRAME:013776/0928 EFFECTIVE DATE : 20030131
US2002171703 AA	20030618	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.,COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT-PACKARD COMPANY; REEL/FRAME:013776/0928 EFFECTIVE DATE : 20030131
US2002171703 AA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT-PACKARD COMPANY; REEL/FRAME:014061/0492 EFFECTIVE DATE : 20030926
US2002171703 AA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY L.P., TEXAS OLDPARTY : ASSIGNMENT OF

					ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:014061/0492D EFFECTIVE DATE : 20030926
US2002171703 AA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY L.P.,TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:014061/0492 EFFECTIVE DATE : 20030926
US2003058314 AA	20030327	LSPB	+	published / reissued	
US2003058314 AA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:014061/0492 EFFECTIVE DATE : 20030926
US2003058314 AA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY L.P.,TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:014061/0492 EFFECTIVE DATE : 20030926
US2003058314 AA	20050216	LSGT	PAT1	Patented Case	
US6019449 A	20000201	LSGT	+	granted / extensions (spc, cpc, pte)	
US6019449 A	20000120	LSGT	PAT1	Patented Case	
US6019449 A	20030801	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6019449 A	20070801	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6019449 A	20110801	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6019449 A	20110922	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY, L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:026945/0699 EFFECTIVE DATE : 20030131
US6019449 A	20180605	PEXP		Calculated Patent Term Expiry	
US6039430 A	20000321	LSGT	+	granted / extensions (spc, cpc, pte)	
US6039430 A	19981026	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HELTHERLINE, BRIAN L.; BULLOCK, MICHAEL L.; CHILDERS, WINTHROP D.; REEL/FRAME:009549/0381; SIGNING DATES FROM 19980909 TO 19980928
US6039430 A	20000309	LSGT	PAT1	Patented Case	
US6039430 A	20030922	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6039430 A	20070921	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6039430 A	20110921	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6039430 A	20110922	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT

					COMPANY, L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:026945/0699 EFFECTIVE DATE : 20030131	
US6039430 A	20180903	PEXP			Calculated Patent Term Expiry	
US6233409 BA	20010515	LSGT	+	granted / extensions (spc, cpc, pte)		
US6233409 BA	20000313	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD COMPANY, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HAINES, ROBERT E.; BAUMUNK, MARY B.; BOOCKHOLDT, DARIUS; REEL/FRAME:010718/0995; SIGNING DATES FROM 20000106 TO 20000110	
US6233409 BA	20010427	LSGT	PAT1	Patented Case		
US6233409 BA	20041115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US6233409 BA	20081117	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US6233409 BA	20110922	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY, L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:026945/0699 EFFECTIVE DATE : 20030131	
US6233409 BA	20121002	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12	
US6233409 BA	20200110	PEXP			Calculated Patent Term Expiry	
US6295423 BA	20010925	LSGT	+	granted / extensions (spc, cpc, pte)		
US6295423 BA	20000229	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD COMPANY, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HAINES, ROBERT E.; RODRIGUEZ, SANTIAGO; BURQUIST, JOSEPH L.; REEL/FRAME:010649/0895 EFFECTIVE DATE : 20000107	
US6295423 BA	20010906	LSGT	PAT1	Patented Case		
US6295423 BA	20050325	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US6295423 BA	20090325	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US6295423 BA	20110922	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY, L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:026945/0699 EFFECTIVE DATE : 20030131	
US6295423 BA	20130226	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12	
US6295423 BA	20200110	PEXP			Calculated Patent Term Expiry	
US6302527 BA	20011016	LSGT	+	granted / extensions (spc, cpc, pte)		
US6302527 BA	19991126	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD COMPANY, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WALKER, RAY A.;	

					REEL/FRAME:010426/0564 EFFECTIVE DATE : 19991008
US6302527 BA	20010927	LSGT	PAT1	Patented Case	
US6302527 BA	20050111	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY, L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:015583/0106 EFFECTIVE DATE : 20050111
US6302527 BA	20050418	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6302527 BA	20090416	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6302527 BA	20130308	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6302527 BA	20191008	PEXP		Calculated Patent Term Expiry	
US6312106 BA	20011106	LSGT	+	granted / extensions (spc, cpc, pte)	
US6312106 BA	19990601	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WALKER, RAY A.; REEL/FRAME:009991/0862 EFFECTIVE DATE : 19990420
US6312106 BA	20011018	LSGT	PAT1	Patented Case	
US6312106 BA	20030218	LSRE	CC	CERTIFICATE OF CORRECTION	
US6312106 BA	20050506	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6312106 BA	20090506	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6312106 BA	20110922	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY, L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:026945/0699 EFFECTIVE DATE : 20030131
US6312106 BA	20130802	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6312106 BA	20190420	PEXP		Calculated Patent Term Expiry	
US6332062 BA	20011218	LSGT	+	granted / extensions (spc, cpc, pte)	
US6332062 BA	20000317	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD COMPANY, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PHILIPS, QUINTIN T.; HAINES, ROBERT E.; BAUMUNK, MARY B.; AND OTHERS; REEL/FRAME:010691/0197; SIGNING DATES FROM 20000106 TO 20000110
US6332062 BA	20050620	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6332062 BA	20090618	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6332062 BA	20110922	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY, L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:026945/0699 EFFECTIVE DATE : 20030131

US6332062 BA	20131218	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6332062 BA	20140113	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6332062 BA	20140204	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20131218
US6332062 BA	20200110	PEXP		Calculated Patent Term Expiry	
US6494562 BA	20021217	LSGT	+	granted / extensions (spc, cpc, pte)	
US6494562 BA	19991123	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD COMPANY, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WALKER, RAY A.; HAINES, ROBERT E.; BULLOCK, MICHAEL L.; REEL/FRAME:010435/0276; SIGNING DATES FROM 19991008 TO 19991021
US6494562 BA	20050111	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT-PACKARD COMPANY; REEL/FRAME:015583/0106 EFFECTIVE DATE : 20050111
US6494562 BA	20060619	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6494562 BA	20100617	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6494562 BA	20141217	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6494562 BA	20150112	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6494562 BA	20150203	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20141217
US6494562 BA	20191001	PEXP		Calculated Patent Term Expiry	
US6676240 BB	20040113	LSGT	+	granted / extensions (spc, cpc, pte)	
US6676240 BB	20031223	LSGT	PAT1	Patented Case	
US6676240 BB	20070713	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6676240 BB	20110713	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6676240 BB	20150626	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6676240 BB	20210830	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6738903 BA	20040518	LSGT	+	granted / extensions (spc, cpc, pte)	
US6738903 BA	20000228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD COMPANY, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAINES, ROBERT E.; REEL/FRAME:010677/0376 EFFECTIVE DATE : 20000107
US6738903 BA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD DEVELOPMENT COMPANY L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT-PACKARD COMPANY; REEL/FRAME:014061/0492

US6738903 BA	20030930	LSAS	AS	ASSIGNMENT	EFFECTIVE DATE : 20030926 PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY L.P.,TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:014061/0492 EFFECTIVE DATE : 20030926
US6738903 BA	20040429	LSGT	PAT1	Patented Case	
US6738903 BA	20071119	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6738903 BA	20110923	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6738903 BA	20151027	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6738903 BA	20200110	PEXP		Calculated Patent Term Expiry	
US6808255 BA	20041026	LSGT	+	granted / extensions (spc, cpc, pte)	
US6808255 BA	20000229	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD COMPANY, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HAINES, ROBERT E.; PHILLIPS, QUINTIN T.; BOOCKHOLDT, DARIUS; AND OTHERS; REEL/FRAME:010649/0542; SIGNING DATES FROM 20000107 TO 20000110
US6808255 BA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY L.P., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:014061/0492 EFFECTIVE DATE : 20030926
US6808255 BA	20030930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT- PACKARD DEVELOPMENT COMPANY L.P.,TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HEWLETT- PACKARD COMPANY; REEL/FRAME:014061/0492 EFFECTIVE DATE : 20030926
US6808255 BA	20041007	LSGT	PAT1	Patented Case	
US6808255 BA	20080428	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6808255 BA	20120426	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6808255 BA	20160324	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6808255 BA	20200110	PEXP		Calculated Patent Term Expiry	
US6817693 BB	20041116	LSGT	+	granted / extensions (spc, cpc, pte)	
US6817693 BB	20041028	LSGT	PAT1	Patented Case	
US6817693 BB	20080516	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6817693 BB	20120516	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6817693 BB	20160427	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6817693 BB	20221008	PEXP		Calculated Patent Term Expiry (PTA 88 days)	
US6863377 BB	20050308	LSGT	+	granted / extensions (spc, cpc, pte)	
US6863377 BB	20061212	LSRE	CC	CERTIFICATE OF CORRECTION	

US6863377 BB	20080908	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6863377 BB	20120910	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6863377 BB	20160926	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6863377 BB	20230729	PEXP		Calculated Patent Term Expiry (PTA 272 days)	
US7110127 BB	20060919	LSGT	+	granted / extensions (spc, cpc, pte)	
US7110127 BB	20010514	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HEWLETT-PACKARD COMPANY, COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WALKER, RAY A.; ZAREMBA, ANDREW JOSEPH; WESTLEY, WAYNE LEAMAN; REEL/FRAME:011794/0877; SIGNING DATES FROM 20010328 TO 20010404
US7110127 BB	20060830	LSGT	PAT1	Patented Case	
US7110127 BB	20100319	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7110127 BB	20140228	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7110127 BB	20171212	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7110127 BB	20230503	PEXP		Calculated Patent Term Expiry (PTA 822 days)	
WO02061578 A2	20020808	LSPB	+	published / reissued	
WO02061578 A2	20030729	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2436712 COUNTRY OF REF DOCUMENT : CA
WO02061578 A2	20030729	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2003/006739 COUNTRY OF REF DOCUMENT : MX
WO02061578 A2	20030730	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002237968 COUNTRY OF REF DOCUMENT : AU
WO02061578 A2	20030730	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020037010051 COUNTRY OF REF DOCUMENT : KR
WO02061578 A2	20030731	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002561682 COUNTRY OF REF DOCUMENT : JP
WO02061578 A2	20030811	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002704276 COUNTRY OF REF DOCUMENT : EP
WO02061578 A2	20030915	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020037010051 COUNTRY OF REF DOCUMENT : KR
WO02061578 A2	20030930	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 028078012 COUNTRY OF REF DOCUMENT : CN
WO02061578 C1	20031211	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02061578 C1	20040204	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002704276 COUNTRY OF REF DOCUMENT : EP
WO02061578 C1	20070102	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0207107 COUNTRY OF REF DOCUMENT : BR

WO02061578 C1	20070920	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002237968 COUNTRY OF REF DOCUMENT : AU
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Title: Image-forming apparatus unit and image-forming apparatus

Abstract: In an image-forming section, a communication device is attached to the top surface of a developing cartridge that is detachably attached to a developing device, and a main body side communication device is attached to a copying machine main body in a manner so as to face the top portion of the communication device. When a loading operation of the developing cartridge to the copying machine main body is carried out, the main body side communication device detects this operation, and sends an electric wave for an electrical supply to the developing cartridge. The communication device transmits individual information of the developing cartridge by means of radio waves, and the main body side communication device receives, demodulates and reads this information. Based upon the results thereof, it makes a judgment as to conformity and suitability of the developing cartridge, and displays the results of the judgement or gives a warning as to the results. Thus, it becomes possible to prevent an erroneous insertion of any unit to the image-forming apparatus main body by using a method with high reliability at low costs. It is possible to provide not only the developer supplying container, but also image-forming apparatus units serving as various units related to image-forming processes and an image-forming apparatus using such units.

Classifications:

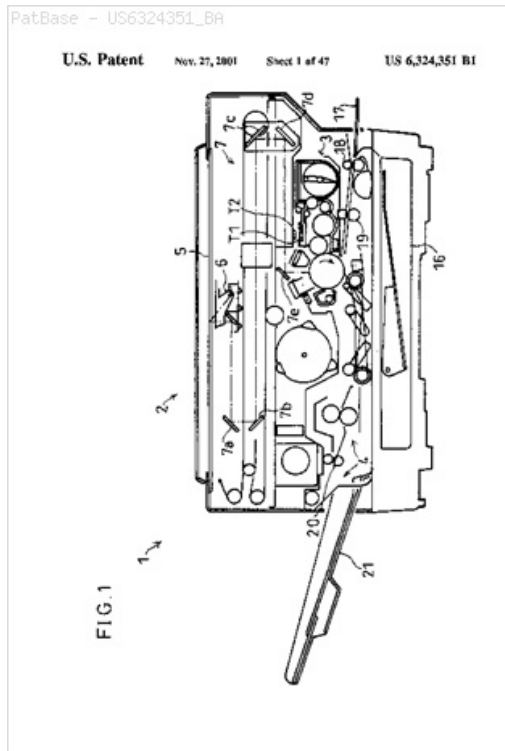
International (IPC 8-9): G03G15/00 G03G21/00 G03G21/18 H04N1/00 (Advanced/Invention); G03G15/00 G03G21/00 G03G21/18 H04N1/00 (Core/Invention)

International (IPC 1-7): G03G15/00 G03G21/00 G03G21/18 H04N1/00

CPC: G03G15/00 G03G21/185 G03G21/1882 G03G2221/1823

European: G03G15/00 G03G21/18H1P G03G21/18L1C S03G221/18E

US: 399/12 399/13



Family:

Publication number	Publication date	Application number	Application date
DE69941973 D1	20100318	DE19996041973	19991222
EP1014680 A2	20000628	EP19990310452	19991222
EP1014680 A3	20020605	EP19990310452	19991222
EP1014680 B1	20100127	EP19990310452	19991222
JP2000187415 A2	20000704	JP19980364207	19981222
JP2004004861 A2	20040108	JP20030148200	20030526
JP3447595 B2	20030916	JP19980364207	19981222
US6324351 BA	20011127	US19990469079	19991221

Priority:

JP19980364207 19981222 JP20030148200 20030526

Probable Assignee: SHARP KK

Assignee(s): (std): SHARP KK

Assignee(s): SHARP CORP ; SHARP K K ; SHARP KABUSHIKI KAISHA

Inventor(s): (std): FUJITA SYOICHI ; KURIMOTO ATSUSHI ; SAIKO HIDEJI ; SAKITA HIROFUMI ; SAKIDA YASUSHI ; NISHIMITSU EIJI ; FUJITA SHOICHI

Agent(s): BROWN KENNETH RICHARD ; HARA KENZO ; HARAKENZO WORLD PATENT AND TRADEMARK

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE69941973 D1	20110217	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
EP1014680 A2	20000628	LSPB	+	published / reissued	
EP1014680 A2	20160129	LSFE	+PGFP	POSTGRANT:	COUNTRY OF REF DOCUMENT : DE

EP1014680 A2	20160129	LSFE	+PGFP	ANNUAL FEES PAID TO NATIONAL OFFICE	PAYMENT DATE : 20151211 YEAR OF FEE PAYMENT : 17
EP1014680 A2	20160229	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151221 YEAR OF FEE PAYMENT : 17
EP1014680 A3	20020605	LSRE	RIC1	CLASSIFICATION (CORRECTION)	TEXT : 7H 04N 1/00 A, 7G 03G 15/00 B, 7G 03G 21/18 B
EP1014680 A3	20021016	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20020814
EP1014680 A3	20030226	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB
EP1014680 A3	20061122	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20061019
EP1014680 B1	20100127	LSGT	+	granted / extensions (spc, cp, pte)	
EP1014680 B1	20100127	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1014680 B1	20110105	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20101028
EP1014680 B1	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 : 17
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EP1014680 B1	20170228	LSFE	+PGFP	POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20161222 YEAR OF FEE PAYMENT : 18
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EP1014680 B1	20191222	PEXP		Calculated Patent Term Expiry	
JP2000187415 A2	20000704	LSPB	+	published / reissued	
JP2004004861 A2	20040108	LSPB	+	published / reissued	
JP2004004861 A2	20050831	LSES	-A131	NOTIFICATION	TEXT : JAPANESE INTERMEDIATE

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JP2004004861 A2	20051021	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20051020
JP2004004861 A2	20051130	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20051129
JP2004004861 A2	20060128	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20060127
JP2004004861 A2	20060222	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20060221
JP3447595 B2	20030916	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3447595 B2	20030626	LSGT	+A01	特許査定書 Decision of patent grant	
JP3447595 B2	20030701	LSFE	R100	特許料納付書 Patent fee payment form	
JP3447595 B2	20030704	LSGT	+R150	特許証 Patent certificate	
JP3447595 B2	20060629	LSFE	R20	特許料納付書 Patent fee payment form	
JP3447595 B2	20060704	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP3447595 B2	20070628	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3447595 B2	20070703	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3447595 B2	20080703	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3447595 B2	20080930	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3447595 B2	20090625	LSFE	R20	特許料納付書 Patent fee payment form	
JP3447595 B2	20090630	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
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JP3447595 B2	20100706	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 8
JP3447595 B2	20110630	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 8
JP3447595 B2	20110705	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 9
JP3447595 B2	20120628	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 9

JP3447595 B2	20120703	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 10
JP3447595 B2	20130627	LSFE	R20	特許料納付書 Patent fee payment form	
JP3447595 B2	20130702	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP3447595 B2	20140619	LSFE	R20	特許料納付書 Patent fee payment form	
JP3447595 B2	20140624	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP3447595 B2	20150625	LSFE	R20	特許料納付書 Patent fee payment form	
JP3447595 B2	20150630	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP3447595 B2	20160630	LSFE	R20	特許料納付書 Patent fee payment form	
JP3447595 B2	20160705	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP3447595 B2	20170622	LSFE	R20	特許料納付書 Patent fee payment form	
JP3447595 B2	20170627	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP3447595 B2	20181222	PEXP		Calculated Patent Term Expiry	
US6324351 BA	20011127	LSGT	+	granted / extensions (spc, cpc, pte)	
US6324351 BA	19991221	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SHARP KABUSHIKI KAISHA, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KURIMOTO, ATSUSHI; FUJITA, SYOICHI; SAKITA, HIROFUMI; AND OTHERS; REEL/FRAME:010474/0048 EFFECTIVE DATE : 19991201
US6324351 BA	20011109	LSGT	PAT1	Patented Case	
US6324351 BA	20050505	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6324351 BA	20090429	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6324351 BA	20130308	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6324351 BA	20191221	PEXP		Calculated Patent Term Expiry	

Title: Advertising from the customer replaceable unit memory of a copier or printer cartridge

Abstract: The customer replacement unit memory of a replaceable cartridge for a copier or printer is pre-programmed to print advertising or promotion material.

Classifications:

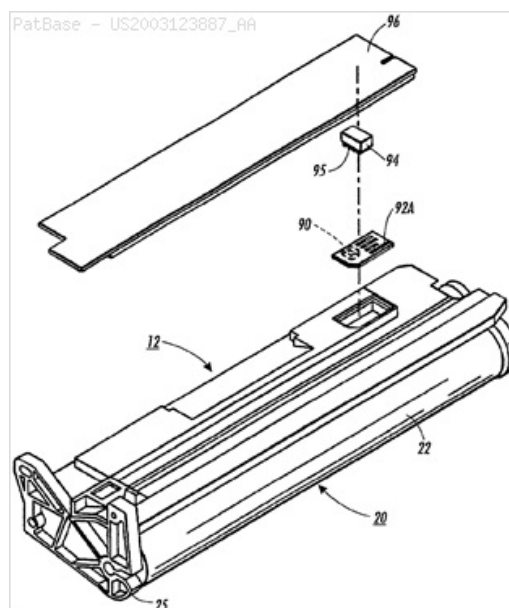
International (IPC 8-9): B41J29/38 G03G15/00 G03G21/00
G03G21/18 (Advanced/Invention);
B41J29/38 G03G15/00 G03G21/00 G03G21/18 (Core/Invention)

International (IPC 1-7): B41J29/38 G03G15/00 G03G21/00

CPC: G03G21/1889 G03G2221/1663 G03G2221/1823

European: G03G21/18L1L S03G221/16L S03G221/18E

US: 399/24



Family:

Publication number	Publication date	Application number	Application date
JP2003248354 A2	20030905	JP20030000681	20030106
US2003123887 AA	20030703	US20020035278	20020103

Priority:

US20020035278 20020103

Probable Assignee: XEROX CORP

Assignee(s): (std): XEROX CORP

Assignee(s): BANK ONE NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): IMES EDWARD P ; STENZEL JAMES G

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP2003248354 A2	20030905	LSPB	+	published / reissued	
US2003123887 AA	20030703	LSPB	+	published / reissued	
US2003123887 AA	20020103	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : XEROX CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:IMES, EDWARD P.; STENZEL, JAMES G.; REEL/FRAME:012445/0563 EFFECTIVE DATE : 20011116
US2003123887 AA	20020730	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:013111/0001 EFFECTIVE DATE : 20020621
US2003123887 AA	20020730	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK ONE, NA, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:XEROX CORPORATION; REEL/FRAME:013111/0001 EFFECTIVE DATE : 20020621
US2003123887 AA	20030908	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

Title: TWO PART CARTRIDGES WITH FORCE BIASING BY PRINTER

Abstract: A two part cartridge having a photoconductor part (1) and a toner part (5) having no force biasing element on either part. The two parts fit together so that a developer roller (7) in the toner part contacts a photoconductor drum (3) in the other part. When the two parts are installed in a printer the cover (50), when closed, brings a spring (62) into contact with one side of the toner part while the frame (F) of the printer blocks movement away from the cover. An advantage of the two part cartridge is that the toner part can be replaced without replacing the photoconductor part. Members on the cartridge for force biasing are avoided and the need for training or skill to latch the parts together is avoided.

Classifications:

International (IPC 8-9): G03G21/18 (Advanced/Invention)

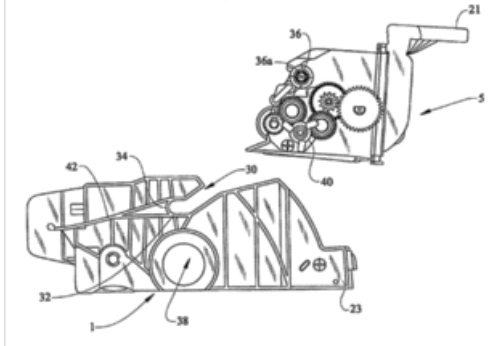
International (IPC 1-7): G03G21/18

CPC: G03G21/1821 G03G2221/1853 G03G2221/1861

European: G03G21/18C4C S03G221/18P3 S03G221/18P3A

US: 399/107 399/113 399/113P 399/114

PatBase - US2004009007_RH



Family:

Publication number	Publication date	Application number	Application date
US2004009007 AA	20040115	US20020195270	20020715
US2004126133 AA	20040701	US20030736355	20031215
US2005147430 AA	20050707	US20050057550	20050214
US2007019986 AA	20070125	US20060535096	20060926
US6678489 BA	20040113	US20020195270	20020715
US6879792 BB	20050412	US20030736355	20031215
US7139510 BB	20061121	US20050057550	20050214
US7305204 BB	20071204	US20060535096	20060926

Priority:

US20020195270 20020715 US20030736355 20031215 US20050057550 20050214
US20050057650 20050214 US20060535096 20060926

Probable Assignee: LEXMARK INT INC

Assignee(s): (std): FAIN JULIA L ; FOSTER MARK D ; LEXMARK INT INC ; CARTER PHILIP S

Assignee(s): CARTER PHILIP SCOT ; LEXMARK INTIONAL ; LEXMARK INT ; LEXMARK INTERNATIONAL INC ; FOSTER MARK DUANE

Inventor(s): (std): CARTER PHILIP S ; CARTER PHILIP SCOT ; FAIN JULIA L ; FOSTER MARK DUANE ; FOSTER MARK D

Inventor(s): CARTER PHILIP ; FOSTER MARK ; FAIN JULIA

Agent(s): LEXMARK INT INC INTELLECTUAL PROPERTY LAW DEPARTMENT; JOSEPH; ARTHUR I; NAVARRO LAW OFFICES PC; COATS AND BENNETT PLLC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2004009007 AA	20040115	LSPB	+	published / reissued	
US2004009007 AA	20070713	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US2004009007 AA	20110713	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US2004009007 AA	20150701	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US2004126133 AA	20040701	LSPB	+	published / reissued	
US2004126133 AA	20050323	LSGT	PAT1	Patented Case	
US2005147430 AA	20050707	LSPB	+	published / reissued	
US2007019986 AA	20070125	LSPB	+	published / reissued	
US2007019986 AA	20060926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LEXMARK INTERNATIONAL, INC., KENTUCKY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: CARTER, PHILIP SCOT; FAIN, JULIA L.; FOSTER, MARK DUANE; REEL/FRAME: 018301/0053 EFFECTIVE DATE : 20021007

US6678489 BA	20040113	LSGT	+	granted / extensions (spc, cpc, pte)	
US6678489 BA	20020715	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LEXMARK INTERNATIONAL, INC., KENTUCKY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: CARTER, PHILIP SCOT; FAIN, JULIA L.; REEL/FRAAME: 013123/0849 EFFECTIVE DATE : 20020715
US6678489 BA	20021015	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LEXMARK INTERNATIONAL, INC., KENTUCKY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: CARTER, PHILIP SCOT; FAIN, JULIA L.; FOSTER, MARK DUANE; REEL/FRAAME: 013381/0568 EFFECTIVE DATE : 20021007
US6678489 BA	20031223	LSGT	PAT1	Patented Case	
US6678489 BA	20220715	PEXP		Calculated Patent Term Expiry	
US6879792 BB	20050412	LSGT	+	granted / extensions (spc, cpc, pte)	
US6879792 BB	20081014	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6879792 BB	20120926	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6879792 BB	20160929	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6879792 BB	20231215	PEXP		Calculated Patent Term Expiry	
US7139510 BB	20061121	LSGT	+	granted / extensions (spc, cpc, pte)	
US7139510 BB	20061101	LSGT	PAT1	Patented Case	
US7139510 BB	20100521	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7139510 BB	20140423	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7139510 BB	20180510	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7139510 BB	20250214	PEXP		Calculated Patent Term Expiry	
US7305204 BB	20071204	LSGT	+	granted / extensions (spc, cpc, pte)	
US7305204 BB	20071114	LSGT	PAT1	Patented Case	
US7305204 BB	20110606	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7305204 BB	20150520	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7305204 BB	20260926	PEXP		Calculated Patent Term Expiry	

Title: IMAGE FORMING APPARATUS AND UNIT, AND STORAGE MEDIUM MOUNTED IN THE UNIT

Abstract: An image forming apparatus which forms an image by using a unit having at least a member associated with image formation and storage unit storing information, comprising, an image carrier, developing unit for developing a latent image formed on said image carrier by supplying toner to said image carrier and **controller** for **controlling** image formation operation on the basis of the information stored in said storage unit, wherein said storage unit stores information for **controlling** toner consumption operation in accordance with a characteristic of the toner, and said **controller controls** the toner consumption operation on the basis of the information stored in said storage unit without printing any image on a print medium.

Classifications:

International (IPC 8-9): G03G15/00 G03G15/08 G03G21/00 G03G21/18 (Advanced/Invention);

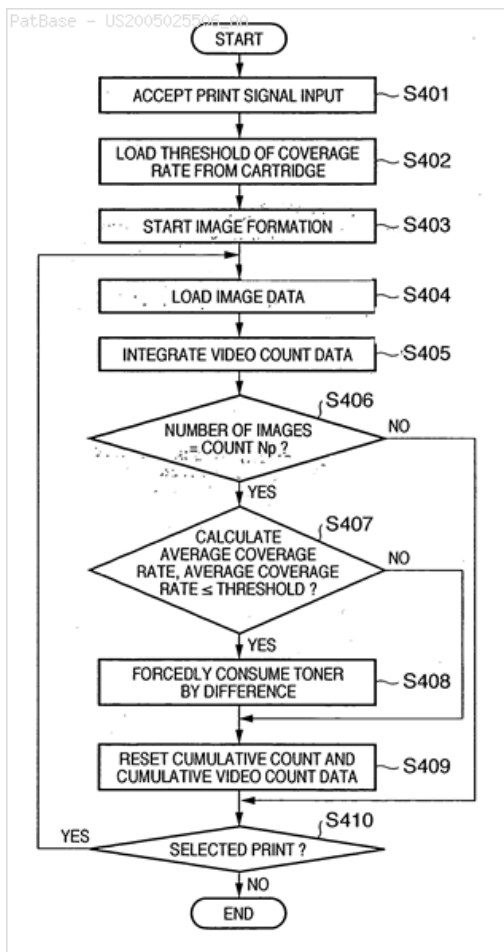
G03G15/08 G03G21/00 G03G21/18 (Core/Invention)

International (IPC 1-7): G03G15/08 G03G21/00

CPC: G03G21/1889 G03G2221/1838

European: G03G21/18L1L S03G221/18P1

US: 399/257 399/27



Family:

Publication number	Publication date	Application number	Application date
JP2005062840 A2	20050310	JP20040207605	20040714
JP4618775 B2	20110126	JP20040207605	20040714
US2005025506 AA	20050203	US20040896898	20040723
US7095966 BB	20060822	US20040896898	20040723

Priority:

JP20030204820 20030731 JP20040207605 20040714

Probable Assignee:

CANON INC

Assignee(s): (std):

CANON KK

Assignee(s):

CANON INC ; CANON KABUSHIKI KAISHA

Inventor(s): (std):

ADACHI MOTOKI ; ADACHI MOTONORI

Agent(s):

FITZPATRICK CELLA HARPER AND SCINTO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP2005062840 A2	20050310	LSPB	+	published / reissued	
JP2005062840 A2	20070711	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20070710
JP2005062840 A2	20070711	LSER	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20070710

JP2005062840 A2	20100323	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100319
JP2005062840 A2	20100519	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20100518
JP2005062840 A2	20100720	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100716
JP2005062840 A2	20100915	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20100914
JP2005062840 A2	20101018	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2005062840 A2	20101025	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20101022
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JP2005062840 A2	20101104	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20101025
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JP2005062840 A2	20101105	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP4618775 B2	20110126	LSGT	+	granted / extensions (spc, cpc, pte)	
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JP4618775 B2	20131024	LSFE	R20	特許料納付書 Patent fee payment form	
JP4618775 B2	20131029	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4618775 B2	20141030	LSFE	R20	特許料納付書 Patent fee payment form	
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JP4618775 B2	20151104	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4618775 B2	20161027	LSFE	R20	特許料納付書 Patent fee payment form	
JP4618775 B2	20161101	LSFE	R2501	年金領収書 (一括) Pension receipt (bulk)	
JP4618775 B2	20240714	PEXP		Calculated Patent Term Expiry	
US2005025506 AA	20050203	LSPB	+	published / reissued	
US7095966 BB	20060822	LSGT	+	granted / extensions (spc, cpc, pte)	
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US7095966 BB	20140122	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

US7095966 BB	20180208	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
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Title: REMOVABLE TONER CARTRIDGE UNIVERSAL ADAPTER

Abstract: A universal adapter for a toner cartridge enables a single toner cartridge to be used with printers made by different manufacturers and differing printer models made by a common manufacturer. The toner cartridge includes a waste bin having a leading end that is sculpted to mate with the cartridge-receiving cavities of a large number of printers. Additional improvements include an improved planar having a common thickness along its extent, the elimination of a pivotal motion between the waste bin and the hopper, an enhanced interconnection between the waste bin and the hopper, improved ergonomics along a trailing edge of the waste bin to facilitate its handling, a structure that prevents mounting of a circuit board over a host circuit board, reduced friction media guide ribs, an improved circuit board mounting pad, and a microswitch actuating tab that functions even in a printer with worn hinges and latches.

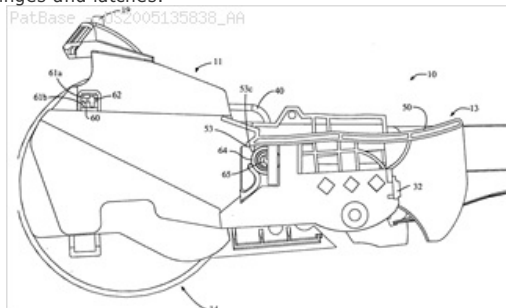
Classifications:

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International (IPC 1-7): G03G15/00 G03G15/08 G03G21/18 **CPC:** G03G15/0863 G03G21/1892 G03G15/0855 G03G15/0865 G03G15/0868 G03G15/0877 G03G15/0856 G03G15/0862 G03G15/0889 G03G15/0875 G03G2215/0695 G03G2215/0634 G03G2215/0802 G03G21/1857 G03G2221/1624 G03G15/0898 G03G15/0817 G03G2221/166 G03G15/0896 G03G21/1867 G03G21/181 G03G21/1821 G03G2215/085 G03G2215/0888 G03G21/12 G03G15/0894 G03G21/1652 G03G21/1878 G03G21/1896 G03G2215/0697 G03G2215/0852 G03G2221/1815 G03G2221/1823 Y10T29/49826 Y10T74/19642

European: G03G15/08F6 G03G15/08H2 G03G15/08H3 G03G15/08H3B G03G15/08H3D G03G15/08R G03G15/08S G03G15/08S1 G03G15/50F G03G21/12 G03G21/16C2 G03G21/18C2 G03G21/18C4C G03G21/18H2 G03G21/18H3 G03G21/18L1 G03G21/18L2 S03G215/06B S03G215/06C8 S03G215/06C8E S03G215/08A S03G215/08A5 S03G215/08A5A S03G215/08D S03G221/16C2 S03G221/16K3 S03G221/18C S03G221/18E

US: 29/428 29/428S 347/152 347/19 358/1.15 358/1.150P 399/103 399/105 399/107 399/107P 399/109 399/109P 399/110 399/110P 399/111 399/111P 399/113 399/113P 399/114 399/117 399/117P 399/119 399/12 399/120 399/120P 399/12P 399/13 399/167 399/222 399/24 399/25 399/254 399/254P 399/258 399/258P 399/260 399/262 399/262P 399/262S 399/263 399/27 399/360 399/360P 399/61 399/90 399/90P 74/412.00RP 74/412R

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Priority:

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Probable Assignee: ADVANCED CARTRIDGE TECHNOLOGIES LLC

Assignee(s): (std): CARTRIDGE CORP OF AMERICA IN ; CARTRIDGE CORP OF AMERICA INC ; CARTRIDGE OF AMERI CORP ; MILLER STEVEN ; SCHNELL HERMAN ; SOFTWARE CORP OF AMERICA INC

Assignee(s): CARTRIDGE OF AMERICA IN CORP ; INNOVATIVE CARTRIDGE TECHNOLOGIES ; INNOVATIVE CARTRIDGE TECHNOLOGIES INC ; STATIC CONTROL COMPONENTS INC ; IMAGING TECHNOLOGIES HOLDING LLC ; GLOBAL INNOVATIONS LLC ; WHITNEY NATIONAL BANK ; UNIVERSAL IMAGING HOLDINGS LLC ; UNIVERSAL IMAGING PROPERTIES LLC ; CARTRIDGE OF AMERICA INC CORP ;

Inventor(s): (std): STEVEN MILLER ; SOFTWARE OF AMERICA INC CORP ; CARTRIDGE CORPORATIONS OF AMERICA INC ; ADVANCED CARTRIDGE TECHNOLOGIES LLC ; AMERICAN IMAGING CARTRIDGE LLC

Inventor(s): CARTRIDGE CORPORATION OF AMERI ; MILLER STEVEN ; SCHNELL HERMAN ; CARTRIDGE OF AMERI CORP

Agent(s): FINLAYSON AND SINGLEHURST; MEISSNER BOLTE AND PARTNER; MEISSNER BOLTE AND PARTNER GBR; SMITH AND HOPEN PA; SMITH HOPEN PA; STEVEN MILLER; JESSE DELCAMP; THOMAS E; TONER THOMAS E; DELCAMP JESSE; JESSE; JESSE E

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 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
BRPI0417289 A	20070724	LSPB	+	published / reissued	
BRPI0417289 A	20080930	LSAS	B25C	REQUIREMENT RELATED TO REQUESTED TRANSFER OF RIGHTS	PARTYTYPE : OWNER OWNER : STEVEN MILLER (US) OLDPARTY : A FIM DE ATENDER A TRANSFERENCIA REQUERIDA ATRAVES DA PETICAO NO 018080007554/SP DE 13/02/2008, QUEIRA APRESENTAR O DOCUMENTO DE CESSAO LEGALIZADO E NOTORIZADO.
BRPI0417289 A	20090217	LSAS	B25A	REQUESTED TRANSFER OF RIGHTS APPROVED	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC. (US) OLDPARTY : TRANSFERIDO DE: STEVEN MILLER
BRPI0417289 A	20160913	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	TEXT : REFERENTE A 12A ANUIDADE.
BRPI0417289 A	20170110	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	TEXT : EM VIRTUDE DO ARQUIVAMENTO PUBLICADO NA RPI 2384 DE 13-09-2016 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDO O ARQUIVAMENTO DO PEDIDO DE PATENTE, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
BRPI0508061 A	20070717	LSPB	+	published / reissued	
BRPI0508061 A	20080923	LSAS	B25C	REQUIREMENT RELATED TO REQUESTED TRANSFER OF RIGHTS	PARTYTYPE : OWNER OWNER : STEVEN MILLER (US) OLDPARTY : A FIM DE ATENDER O SOLICITADO NA PETICAO DE TRANSFERENCIA NO 018080007553/SP DE 13/02/2008, QUEIRA REAPRESENTAR O DOCUMENTO DE CESSAO DEVIDAMENTE NOTARIZADO E COM A RESPECTIVA LEGALIZACAO CONSULAR, FAZENDO CONSTAR NO MESMO O NUMERO DO PEDIDO EM TELA, BEM COMO TRADUCAO JURAMENTADA DO MESMO, NAO ESQUECENDO O PROCURADOR DE ASSINAR A PETICAO DE CUMPRIMENTO DE EXIGENCIA.
BRPI0508061 A	20090317	LSAS	B25B	REQUESTED TRANSFER OF RIGHTS REJECTED	PARTYTYPE : OWNER OWNER : STEVEN MILLER (US) OLDPARTY : INDEFERIDO O PEDIDO DE TRANSFERENCIA DE TITULAR SOLICITADO ATRAVES DA PETICAO NO 018080007553/SP DE 13/02/2008, POR NAO CUMPRIMENTO DE EXIGENCIA PUBLICADA NA RPI 1968 DE 23/09/2008.
BRPI0508061 A	20150331	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	TEXT : REFERENTE A 10A ANUIDADE.

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CA2686685 AA	20131022	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20130827
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CA2687354 AA	20091201	LSES	+EEER	EXAMINATION REQUEST	
CA2687354 C	20120424	LSGT	+	granted / extensions (spc,	

cpc, pte)					
CA2687354 C	20240826	PEXP		Calculated Patent Term Expiry	
CA2706645 AA	20050728	LSPB	+	published / reissued	
CA2706645 AA	20100611	LSES	+EEER	EXAMINATION REQUEST	
CA2706645 C	20111101	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2706645 C	20141007	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20140826
CA2706645 C	20240826	PEXP		Calculated Patent Term Expiry	
CA2706915 AA	20050728	LSPB	+	published / reissued	
CA2706915 AA	20100611	LSES	+EEER	EXAMINATION REQUEST	
CA2706915 C	20121023	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2706915 C	20141007	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20140826
CA2706915 C	20240826	PEXP		Calculated Patent Term Expiry	
CA2714018 AA	20050728	LSPB	+	published / reissued	
CA2714018 AA	20100831	LSES	+EEER	EXAMINATION REQUEST	
CA2714018 C	20130730	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2714018 C	20240826	PEXP		Calculated Patent Term Expiry	
CA2714039 AA	20050728	LSPB	+	published / reissued	
CA2714039 AA	20100831	LSES	+EEER	EXAMINATION REQUEST	
CA2714039 C	20130813	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2714039 C	20240826	PEXP		Calculated Patent Term Expiry	
CA2714098 AA	20050728	LSPB	+	published / reissued	
CA2714098 AA	20100831	LSES	+EEER	EXAMINATION REQUEST	
CA2714098 AA	20131231	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20131105
CA2714124 AA	20050728	LSPB	+	published / reissued	
CA2714124 AA	20100831	LSES	+EEER	EXAMINATION REQUEST	
CA2714124 AA	20141021	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20140826
EP1695153 A2	20060830	LSPB	+	published / reissued	
EP1695153 A2	20060830	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20060616
EP1695153 A2	20070214	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC.
EP1695153 A4	20080924	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20080827
EP1695153 A4	20080924	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/08 20060101ALI20080821BHEP

EP1695153 A4	20080924	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/12 20060101ALI20080821BHEP
EP1695153 A4	20080924	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/18 20060101ALI20080821BHEP
EP1695153 A4	20080924	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/00 20060101AFI20060626BHEP
EP1695153 A4	20100825	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100721
EP1695153 A4	20140128	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R003
EP1695153 A4	20140723	LSRV	-18R	REFUSED	EFFECTIVE DATE : 20140128
EP1730601 A2	20061213	LSPB	+	published / reissued	
EP1730601 A2	20061213	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20060921
EP1730601 A2	20070214	LSAS	RAP1	TRANSFER OF RIGHTS OF AN APPLICATION	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC.
EP1730601 A2	20090225	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/18 20060101AFI20090116BHEP
EP1730601 A4	20100217	LSES	+A4	DESPATCH OF SUPPLEMENTARY SEARCH REPORT	EFFECTIVE DATE : 20100120
EP1730601 A4	20100901	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20100729
EP1730601 A4	20110803	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20110209
EP2058707 A2	20090513	LSPB	+	published / reissued	
EP2058707 A2	20090513	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20090225
EP2058707 A3	20110504	LSFE	+AKX	PAYMENT OF DESIGNATION FEES	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SI COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR
EP2058707 A3	20110706	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20110606
EP2058707 A3	20160907	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20160301
EP2196865 A2	20100616	LSPB	+	published / reissued	
EP2196865 A2	20100616	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100330
EP2196865 A3	20100901	LSRE	RIC1	CLASSIFICATION	CLASSIFICATIONSCHEME : IPC

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EP2196865 A3	20100901	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/08 20060101ALI20100727BHEP
EP2196865 A3	20110518	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20110414
EP2196865 A3	20130424	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20121101
EP2228688 A2	20100915	LSPB	+	published / reissued	
EP2228688 A2	20100915	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100615
EP2228688 A2	20120829	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/08 20060101ALI20120725BHEP
EP2228688 A2	20120829	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/16 20060101ALI20120725BHEP
EP2228688 A2	20120829	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/00 20060101AFI20120725BHEP
EP2228688 A2	20120829	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/18 20060101ALI20120725BHEP
EP2228688 A2	20120829	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/12 20060101ALI20120725BHEP
EP2228688 A3	20121219	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/00 20060101AFI20121112BHEP
EP2228688 A3	20121219	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/16 20060101ALI20121112BHEP
EP2228688 A3	20121219	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/12 20060101ALI20121112BHEP
EP2228688 A3	20121219	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/18 20060101ALI20121112BHEP
EP2228688 A3	20121219	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/08 20060101ALI20121112BHEP
EP2228688 A3	20131211	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20130620
EP2530530 A2	20121205	LSPB	+	published / reissued	
EP2530530 A2	20121205	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20120727
EP2530530 A2	20150506	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/00 20060101AFI20150405BHEP
EP2530530 A2	20150506	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/08 20060101ALI20150405BHEP
EP2530530 A2	20150506	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/18 20060101ALI20150405BHEP
EP2530530 A2	20150506	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/12 20060101ALI20150405BHEP
EP2530530 A2	20150513	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/12 20060101ALI20150409BHEP

EP2530530 A2	20150513	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/08 20060101ALI20150409BHEP
EP2530530 A2	20150513	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 21/18 20060101ALI20150409BHEP
EP2530530 A2	20150513	LSRE	RIC1	CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : G03G 15/00 20060101AFI20150409BHEP
EP2530530 A2	20160323	LSES	+17Q	FIRST EXAMINATION REPORT	EFFECTIVE DATE : 20160223
EP2530530 A2	20170208	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20160906
US2005135838 AA	20050623	LSPB	+	published / reissued	
US2005135838 AA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025
US2005163530 AA	20050728	LSPB	+	published / reissued	
US2005163530 AA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025
US2005163536 AA	20050728	LSPB	+	published / reissued	
US2006153598 AA	20060713	LSPB	+	published / reissued	
US2006153599 AA	20060713	LSPB	+	published / reissued	
US2007014592 AA	20070118	LSPB	+	published / reissued	
US2007014592 AA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025
US2007019987 AA	20070125	LSPB	+	published / reissued	
US2007019987 AA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025
US2007019987 AA	20110907	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007127936 AA	20070607	LSPB	+	published / reissued	
US2007127936 AA	20070207	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018864/0716 EFFECTIVE DATE : 20070205
US2007127936 AA	20070222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018921/0094 EFFECTIVE DATE : 20070205
US2007223942 AA	20070927	LSPB	+	published / reissued	
US2007223942 AA	20080213	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:020504/0330 EFFECTIVE DATE : 20080213
US2008145111 AA	20080619	LSPB	+	published / reissued	
US2008152377 AA	20080626	LSPB	+	published / reissued	
US2008152381 AA	20080626	LSPB	+	published / reissued	
US2008152382 AA	20080626	LSPB	+	published / reissued	
US2008152383 AA	20080626	LSPB	+	published / reissued	
US2008212994 AA	20080904	LSPB	+	published / reissued	
US2008212994 AA	20090623	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:022864/0558 EFFECTIVE DATE : 20090623
US2008304859 AA	20081211	LSPB	+	published / reissued	
US2010053683 AA	20100304	LSPB	+	published / reissued	
US2010053683 AA	20110224	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010061761 AA	20100311	LSPB	+	published / reissued	
US2010061761 AA	20110504	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010143012 AA	20100610	LSPB	+	published / reissued	
US2010143012 AA	20130325	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010162842 AA	20100701	LSPB	+	published / reissued	
US2010162842 AA	20110705	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010221035 AA	20100902	LSPB	+	published / reissued	
US2010221035 AA	20110517	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010247141 AA	20100930	LSPB	+	published / reissued	
US2010247141 AA	20110428	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADVANCED CARTRIDGE TECHNOLOGIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:026196/0757 EFFECTIVE DATE : 20110328

US2010247141 AA	20120607	LSWD	-ABD2	Abandoned -- Failure to Pay Issue Fee	
US2010254727 AA	20101007	LSPB	+	published / reissued	
US2010254727 AA	20110513	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADVANCED CARTRIDGE TECHNOLOGIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:026278/0586 EFFECTIVE DATE : 20110513
US2010310273 AA	20101209	LSPB	+	published / reissued	
US2010310273 AA	20110825	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2011110681 AA	20110512	LSPB	+	published / reissued	
US2011110681 AA	20140603	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2011116811 AA	20110519	LSPB	+	published / reissued	
US2011116811 AA	20111115	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2012014712 AA	20120119	LSPB	+	published / reissued	
US2012014712 AA	20121023	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2012301184 AA	20121129	LSPB	+	published / reissued	
US2012301184 AA	20140311	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US7039345 BB	20060502	LSGT	+	granted / extensions (spc, cpc, pte)	
US7039345 BB	20060412	LSGT	PAT1	Patented Case	
US7039345 BB	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATIONS OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018480/0843 EFFECTIVE DATE : 20061025
US7039345 BB	20090507	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7039345 BB	20140501	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7039345 BB	20171211	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7039345 BB	20180502	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : 11.5 YR SURCHARGE- LATE PMT W/IN 6 MO, SMALL ENTITY (ORIGINAL EVENT CODE: M2556)
US7039345 BB	20180502	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7039345 BB	20250401	PEXP		Calculated Patent Term Expiry	
US7068954 BA	20060627	LSGT	+	granted / extensions (spc, cpc, pte)	
US7068954 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATIONS OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018480/0843

EFFECTIVE DATE : 20061025					
US7068954 BA	20090630	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7068954 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IMAGING TECHNOLOGIES HOLDING, LLC; REEL/FRAME:025337/0829 EFFECTIVE DATE : 20101109
US7068954 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING PROPERTIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME:025337/0898 EFFECTIVE DATE : 20101109
US7068954 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN IMAGING CARTRIDGE, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING PROPERTIES, LLC; REEL/FRAME:025338/0267 EFFECTIVE DATE : 20101109
US7068954 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IMAGING TECHNOLOGIES HOLDING, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:025337/0731 EFFECTIVE DATE : 20101109
US7068954 BA	20140627	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7068954 BA	20140728	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7068954 BA	20140819	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140627
US7068954 BA	20250714	PEXP		Calculated Patent Term Expiry	
US7106993 BA	20060912	LSGT	+	granted / extensions (spc, cpc, pte)	
US7106993 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATIONS OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018480/0843 EFFECTIVE DATE : 20061025
US7106993 BA	20091009	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7106993 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IMAGING TECHNOLOGIES HOLDING, LLC; REEL/FRAME:025337/0829 EFFECTIVE DATE : 20101109
US7106993 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING PROPERTIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME:025337/0898

US7106993 BA	20101109	LSAS	AS	ASSIGNMENT	EFFECTIVE DATE : 20101109 PARTYTYPE : OWNER OWNER : AMERICAN IMAGING CARTRIDGE, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING PROPERTIES, LLC; REEL/FRAME:025338/0267 EFFECTIVE DATE : 20101109	
US7106993 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IMAGING TECHNOLOGIES HOLDING, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:025337/0731 EFFECTIVE DATE : 20101109	
US7106993 BA	20140912	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES		
US7106993 BA	20141013	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US7106993 BA	20141104	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140912	
US7106993 BA	20250726	PEXP		Calculated Patent Term Expiry		
US7113710 BB	20060926	LSGT	+	granted / extensions (spc, cpc, pte)		
US7113710 BB	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATIONS OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018480/0843 EFFECTIVE DATE : 20061025	
US7113710 BB	20091009	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7113710 BB	20100218	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADVANCED CARTRIDGE TECHNOLOGIES, LLC,FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:023950/0380 EFFECTIVE DATE : 20100112	
US7113710 BB	20101019	LSRX	+RR	REQUEST FOR REEXAMINATION FILED	EFFECTIVE DATE : 20100722	
US7113710 BB	20140926	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES		
US7113710 BB	20141027	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US7113710 BB	20141118	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140926	
US7113710 BB	20260414	PEXP		Calculated Patent Term Expiry		
US7136607 BA	20061114	LSGT	+	granted / extensions (spc, cpc, pte)		
US7136607 BA	20061025	LSGT	PAT1	Patented Case		
US7136607 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC.,	

					FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025
US7136607 BA	20100208	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7136607 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IMAGING TECHNOLOGIES HOLDING, LLC; REEL/FRAME:025337/0829 EFFECTIVE DATE : 20101109
US7136607 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING PROPERTIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME:025337/0898 EFFECTIVE DATE : 20101109
US7136607 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN IMAGING CARTRIDGE, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING PROPERTIES, LLC; REEL/FRAME:025338/0267 EFFECTIVE DATE : 20101109
US7136607 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IMAGING TECHNOLOGIES HOLDING, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:025337/0731 EFFECTIVE DATE : 20101109
US7136607 BA	20141030	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7136607 BA	20260510	PEXP		Calculated Patent Term Expiry	
US7136608 BB	20061114	LSGT	+	granted / extensions (spc, cpc, pte)	
US7136608 BB	20061025	LSGT	PAT1	Patented Case	
US7136608 BB	20091124	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7136608 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IMAGING TECHNOLOGIES HOLDING, LLC; REEL/FRAME:025337/0829 EFFECTIVE DATE : 20101109
US7136608 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING PROPERTIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME:025337/0898 EFFECTIVE DATE : 20101109
US7136608 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN IMAGING CARTRIDGE, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING PROPERTIES, LLC; REEL/FRAME:025338/0267 EFFECTIVE DATE : 20101109
US7136608 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IMAGING TECHNOLOGIES HOLDING, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST;

ASSIGNOR: CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME: 025337/0731 EFFECTIVE DATE : 20101109					
US7136608 BB	20141111	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7136608 BB	20240206	PEXP		Calculated Patent Term Expiry (PTA 49 days)	
US7174123 BA	20070206	LSGT	+	granted / extensions (spc, cpc, pte)	
US7174123 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: MILLER, STEVEN; REEL/FRAME: 018489/0184 EFFECTIVE DATE : 20061025
US7174123 BA	20070117	LSGT	PAT1	Patented Case	
US7174123 BA	20100311	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7174123 BA	20100817	LSRE	CC	CERTIFICATE OF CORRECTION	
US7174123 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: IMAGING TECHNOLOGIES HOLDING, LLC; REEL/FRAME: 025337/0829 EFFECTIVE DATE : 20101109
US7174123 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING PROPERTIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME: 025337/0898 EFFECTIVE DATE : 20101109
US7174123 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN IMAGING CARTRIDGE, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: UNIVERSAL IMAGING PROPERTIES, LLC; REEL/FRAME: 025338/0267 EFFECTIVE DATE : 20101109
US7174123 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IMAGING TECHNOLOGIES HOLDING, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME: 025337/0731 EFFECTIVE DATE : 20101109
US7174123 BA	20150128	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7174123 BA	20250929	PEXP		Calculated Patent Term Expiry (PTA 149 days)	
US7177565 BA	20070213	LSGT	+	granted / extensions (spc, cpc, pte)	
US7177565 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: MILLER, STEVEN; REEL/FRAME: 018489/0184 EFFECTIVE DATE : 20061025
US7177565 BA	20070124	LSGT	PAT1	Patented Case	
US7177565 BA	20100408	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

US7177565 BA	20100824	LSRE	CC	CERTIFICATE OF CORRECTION	
US7177565 BA	20150128	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7177565 BA	20250929	PEXP		Calculated Patent Term Expiry (PTA 149 days)	
US7177567 BB	20070213	LSGT	+	granted / extensions (spc, cpc, pte)	
US7177567 BB	20070124	LSGT	PAT1	Patented Case	
US7177567 BB	20100408	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7177567 BB	20100817	LSRE	CC	CERTIFICATE OF CORRECTION	
US7177567 BB	20150209	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7177567 BB	20250411	PEXP		Calculated Patent Term Expiry (PTA 10 days)	
US7187874 BA	20070306	LSGT	+	granted / extensions (spc, cpc, pte)	
US7187874 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025
US7187874 BA	20070214	LSGT	PAT1	Patented Case	
US7187874 BA	20070724	LSRE	CC	CERTIFICATE OF CORRECTION	
US7187874 BA	20080111	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOVATIVE CARTRIDGE TECHNOLOGIES, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:020353/0258 EFFECTIVE DATE : 20080111
US7187874 BA	20081223	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : STATIC CONTROL COMPONENTS, INC., NORTH CAROLINA OLDPARTY : SECURITY INTEREST; ASSIGNOR:INNOVATIVE CARTRIDGE TECHNOLOGIES, INC.; REEL/FRAME:022024/0428 EFFECTIVE DATE : 20071126
US7187874 BA	20100408	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7187874 BA	20100617	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WHITNEY NATIONAL BANK,FLORIDA OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:INNOVATIVE CARTRIDGE TECHNOLOGIES, INC.; UNIVERSAL IMAGING HOLDINGS, INC.; REEL/FRAME:024547/0894 EFFECTIVE DATE : 20100415
US7187874 BA	20150128	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7187874 BA	20260119	PEXP		Calculated Patent Term Expiry	
US7221886 BA	20070522	LSGT	+	granted / extensions (spc, cpc, pte)	
US7221886 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025

US7221886 BA	20070502	LSGT	PAT1	Patented Case	
US7221886 BA	20071212	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOVATIVE CARTRIDGE TECHNOLOGIES, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:020234/0085 EFFECTIVE DATE : 20071102
US7221886 BA	20100526	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7221886 BA	20150505	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7221886 BA	20260510	PEXP		Calculated Patent Term Expiry	
US7257356 BB	20070814	LSGT	+	granted / extensions (spc, cpc, pte)	
US7257356 BB	20100218	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADVANCED CARTRIDGE TECHNOLOGIES, LLC,FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:023950/0372 EFFECTIVE DATE : 20100112
US7257356 BB	20101019	LSRX	+RR	REQUEST FOR REEXAMINATION FILED	EFFECTIVE DATE : 20100722
US7257356 BB	20101102	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7257356 BB	20121009	LSRX	+B1	REEXAMINATION CERTIFICATE FIRST REEXAMINATION	
US7257356 BB	20150814	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7257356 BB	20150914	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7257356 BB	20151006	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20150814
US7257356 BB	20260918	PEXP		Calculated Patent Term Expiry	
US7286774 BA	20071023	LSGT	+	granted / extensions (spc, cpc, pte)	
US7286774 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025
US7286774 BA	20071003	LSGT	PAT1	Patented Case	
US7286774 BA	20071212	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOVATIVE CARTRIDGE TECHNOLOGIES, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:020234/0085 EFFECTIVE DATE : 20071102
US7286774 BA	20081223	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : STATIC CONTROL COMPONENTS, INC., NORTH CAROLINA OLDPARTY : SECURITY INTEREST; ASSIGNOR:INNOVATIVE CARTRIDGE TECHNOLOGIES, INC.; REEL/FRAME:022024/0428 EFFECTIVE DATE : 20071126

US7286774 BA	20100617	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WHITNEY NATIONAL BANK,FLORIDA OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:INNOVATIVE CARTRIDGE TECHNOLOGIES, INC.; UNIVERSAL IMAGING HOLDINGS, INC.; REEL/FRAME:024547/0894 EFFECTIVE DATE : 20100415	
US7286774 BA	20101103	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7286774 BA	20101110	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOVATIVE CARTRIDGE TECHNOLOGIES, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SCHNELL, HERMAN; REEL/FRAME:025346/0307 EFFECTIVE DATE : 20101109	
US7286774 BA	20151009	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7286774 BA	20251221	PEXP		Calculated Patent Term Expiry (PTA 85 days)		
US7319833 BA	20080115	LSGT	+	granted / extensions (spc, cpc, pte)		
US7319833 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025	
US7319833 BA	20071226	LSGT	PAT1	Patented Case		
US7319833 BA	20110127	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7319833 BA	20160115	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES		
US7319833 BA	20160215	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US7319833 BA	20160308	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160115	
US7319833 BA	20260221	PEXP		Calculated Patent Term Expiry (PTA 146 days)		
US7356279 BB	20080408	LSGT	+	granted / extensions (spc, cpc, pte)		
US7356279 BB	20080319	LSGT	PAT1	Patented Case		
US7356279 BB	20110527	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7356279 BB	20160404	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7356279 BB	20270601	PEXP		Calculated Patent Term Expiry		
US7362988 BA	20080422	LSGT	+	granted / extensions (spc, cpc, pte)		
US7362988 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025	
US7362988 BA	20080402	LSGT	PAT1	Patented Case		
US7362988 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER	

					OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IMAGING TECHNOLOGIES HOLDING, LLC; REEL/FRAME:025337/0829 EFFECTIVE DATE : 20101109
US7362988 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING PROPERTIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME:025337/0898 EFFECTIVE DATE : 20101109
US7362988 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN IMAGING CARTRIDGE, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING PROPERTIES, LLC; REEL/FRAME:025338/0267 EFFECTIVE DATE : 20101109
US7362988 BA	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IMAGING TECHNOLOGIES HOLDING, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:025337/0731 EFFECTIVE DATE : 20101109
US7362988 BA	20110527	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7362988 BA	20160422	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7362988 BA	20160523	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7362988 BA	20160614	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160422
US7362988 BA	20260510	PEXP		Calculated Patent Term Expiry	
US7373096 BA	20080513	LSGT	+	granted / extensions (spc, cpc, pte)	
US7373096 BA	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025
US7373096 BA	20080423	LSGT	PAT1	Patented Case	
US7373096 BA	20110527	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7373096 BA	20120529	LSRE	CC	CERTIFICATE OF CORRECTION	
US7373096 BA	20160509	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7373096 BA	20260201	PEXP		Calculated Patent Term Expiry (PTA 274 days)	
US7447464 BB	20081104	LSGT	+	granted / extensions (spc, cpc, pte)	
US7447464 BB	20061107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN;

					REEL/FRAME:018489/0184 EFFECTIVE DATE : 20061025
US7447464 BB	20081015	LSGT	PAT1	Patented Case	
US7447464 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IMAGING TECHNOLOGIES HOLDING, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:025337/0731 EFFECTIVE DATE : 20101109
US7447464 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IMAGING TECHNOLOGIES HOLDING, LLC; REEL/FRAME:025337/0829 EFFECTIVE DATE : 20101109
US7447464 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING PROPERTIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME:025337/0898 EFFECTIVE DATE : 20101109
US7447464 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN IMAGING CARTRIDGE, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING PROPERTIES, LLC; REEL/FRAME:025338/0267 EFFECTIVE DATE : 20101109
US7447464 BB	20120117	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7447464 BB	20161104	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7447464 BB	20161205	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7447464 BB	20161227	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20161104
US7447464 BB	20260713	PEXP		Calculated Patent Term Expiry (PTA 90 days)	
US7512360 BB	20090331	LSGT	+	granted / extensions (spc, cpc, pte)	
US7512360 BB	20090106	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:022061/0998 EFFECTIVE DATE : 20080111
US7512360 BB	20090311	LSGT	PAT1	Patented Case	
US7512360 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IMAGING TECHNOLOGIES HOLDING, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:025337/0731 EFFECTIVE DATE : 20101109
US7512360 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST;

					ASSIGNOR:IMAGING TECHNOLOGIES HOLDING, LLC; REEL/FRAME:025337/0829 EFFECTIVE DATE : 20101109
US7512360 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING PROPERTIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME:025337/0898 EFFECTIVE DATE : 20101109
US7512360 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN IMAGING CARTRIDGE, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING PROPERTIES, LLC; REEL/FRAME:025338/0267 EFFECTIVE DATE : 20101109
US7512360 BB	20120503	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7512360 BB	20170330	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7512360 BB	20280111	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US7526234 BB	20090428	LSGT	+	granted / extensions (spc, cpc, pte)	
US7526234 BB	20090316	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:022401/0659 EFFECTIVE DATE : 20090310
US7526234 BB	20090408	LSGT	PAT1	Patented Case	
US7526234 BB	20100817	LSRE	CC	CERTIFICATE OF CORRECTION	
US7526234 BB	20120503	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7526234 BB	20170425	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7526234 BB	20280306	PEXP		Calculated Patent Term Expiry	
US7551859 BB	20090623	LSGT	+	granted / extensions (spc, cpc, pte)	
US7551859 BB	20090603	LSGT	PAT1	Patented Case	
US7551859 BB	20101018	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CARTRIDGE CORPORATION OF AMERICA, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SCHNELL, HERMAN; REEL/FRAME:025150/0193 EFFECTIVE DATE : 20101018
US7551859 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IMAGING TECHNOLOGIES HOLDING, LLC; REEL/FRAME:025337/0829 EFFECTIVE DATE : 20101109
US7551859 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING PROPERTIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME:025337/0898 EFFECTIVE DATE : 20101109

US7551859 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN IMAGING CARTRIDGE, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING PROPERTIES, LLC; REEL/FRAME:025338/0267 EFFECTIVE DATE : 20101109	
US7551859 BB	20101109	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IMAGING TECHNOLOGIES HOLDING, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:025337/0731 EFFECTIVE DATE : 20101109	
US7551859 BB	20121025	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7551859 BB	20161031	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7551859 BB	20270426	PEXP		Calculated Patent Term Expiry (PTA 126 days)		
US7565097 BB	20090721	LSGT	+	granted / extensions (spc, cpc, pte)		
US7565097 BB	20090701	LSGT	PAT1	Patented Case		
US7565097 BB	20100817	LSRE	CC	CERTIFICATE OF CORRECTION		
US7565097 BB	20121116	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7565097 BB	20161031	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7565097 BB	20280306	PEXP		Calculated Patent Term Expiry		
US7639964 BB	20091229	LSGT	+	granted / extensions (spc, cpc, pte)		
US7639964 BB	20091209	LSGT	PAT1	Patented Case		
US7639964 BB	20100817	LSRE	CC	CERTIFICATE OF CORRECTION		
US7639964 BB	20130628	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7639964 BB	20180102	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : 7.5 YR SURCHARGE - LATE PMT W/IN 6 MO, SMALL ENTITY (ORIGINAL EVENT CODE: M2555)	
US7639964 BB	20180102	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : ENTITY STATUS SET TO SMALL (ORIGINAL EVENT CODE: SMAL)	
US7639964 BB	20180102	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US7639964 BB	20280306	PEXP		Calculated Patent Term Expiry		
US7643773 BB	20100105	LSGT	+	granted / extensions (spc, cpc, pte)		
US7643773 BB	20091216	LSGT	PAT1	Patented Case		
US7643773 BB	20100218	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADVANCED CARTRIDGE TECHNOLOGIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:023950/0383 EFFECTIVE DATE : 20100112	
US7643773 BB	20100218	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADVANCED CARTRIDGE TECHNOLOGIES, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CARTRIDGE CORPORATION OF AMERICA, INC.; REEL/FRAME:023950/0383 EFFECTIVE DATE : 20100112	

US7643773 BB	20101019	LSRX	+RR	REQUEST FOR REEXAMINATION FILED	EFFECTIVE DATE : 20100722
US7643773 BB	20121023	LSRX	+B1	REEXAMINATION CERTIFICATE FIRST REEXAMINATION	TEXT : CLAIMS 1 AND 2 ARE DETERMINED TO BE PATENTABLE AS AMENDED.
US7643773 BB	20130628	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7643773 BB	20170818	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7643773 BB	20180205	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7643773 BB	20180205	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7643773 BB	20180227	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20180105
US7643773 BB	20280516	PEXP		Calculated Patent Term Expiry	
US7647007 BB	20100112	LSGT	+	granted / extensions (spc, cpc, pte)	
US7647007 BB	20091223	LSGT	PAT1	Patented Case	
US7647007 BB	20100817	LSRE	CC	CERTIFICATE OF CORRECTION	
US7647007 BB	20130709	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7647007 BB	20170828	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7647007 BB	20180112	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : ENTITY STATUS SET TO SMALL (ORIGINAL EVENT CODE: SMAL)
US7647007 BB	20180112	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : 7.5 YR SURCHARGE - LATE PMT W/IN 6 MO, SMALL ENTITY (ORIGINAL EVENT CODE: M2555)
US7647007 BB	20180112	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7647007 BB	20280306	PEXP		Calculated Patent Term Expiry	
US7664432 BB	20100216	LSGT	+	granted / extensions (spc, cpc, pte)	
US7664432 BB	20100127	LSGT	PAT1	Patented Case	
US7664432 BB	20100817	LSRE	CC	CERTIFICATE OF CORRECTION	
US7664432 BB	20130802	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7664432 BB	20140606	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNIVERSAL IMAGING HOLDINGS, LLC, FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MILLER, STEVEN; REEL/FRAME:033047/0097 EFFECTIVE DATE : 20140606
US7664432 BB	20140620	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GLOBAL INNOVATIONS, LLC, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:UNIVERSAL IMAGING HOLDINGS, LLC; REEL/FRAME:033149/0658 EFFECTIVE DATE : 20140617
US7664432 BB	20171002	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)

US7664432 BB	20180312	LSRE	+PRDP	PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE	EFFECTIVE DATE : 20180315
US7664432 BB	20180315	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : SURCHARGE, PETITION TO ACCEPT PYMT AFTER EXP, UNINTENTIONAL (ORIGINAL EVENT CODE: M1558)
US7664432 BB	20180315	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : PETITION RELATED TO MAINTENANCE FEES GRANTED (ORIGINAL EVENT CODE: PMFG)
US7664432 BB	20180315	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : PETITION RELATED TO MAINTENANCE FEES FILED (ORIGINAL EVENT CODE: PMFP)
US7664432 BB	20180315	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7664432 BB	20280328	PEXP		Calculated Patent Term Expiry (PTA 22 days and a terminal disclaimer has been filed)	
US8045884 BB	20111025	LSGT	+	granted / extensions (spc, cpc, pte)	
US8045884 BB	20111005	LSGT	PAT1	Patented Case	
US8045884 BB	20151009	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8045884 BB	20300614	PEXP		Calculated Patent Term Expiry	
WO05067440 A2	20050728	LSPB	+	published / reissued	
WO05067440 A3	20060607	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2548821 COUNTRY OF REF DOCUMENT : CA
WO05067440 A3	20060616	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004782220 COUNTRY OF REF DOCUMENT : EP
WO05067440 A3	20060620	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05067440 A3	20060620	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO05067440 A3	20060830	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2004782220 COUNTRY OF REF DOCUMENT : EP
WO05067440 A3	20070724	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0417289 COUNTRY OF REF DOCUMENT : BR
WO05098549 A2	20051020	LSPB	+	published / reissued	
WO05098549 A2	20060920	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005735117 COUNTRY OF REF DOCUMENT : EP
WO05098549 A2	20060925	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2561070 COUNTRY OF REF DOCUMENT : CA
WO05098549 A2	20061003	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
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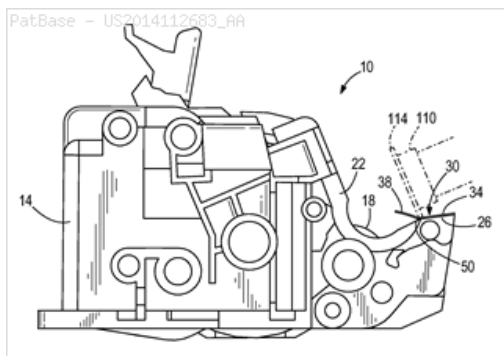
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WO05098549 A2	20070717	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0508061 COUNTRY OF REF DOCUMENT : BR
WO05098550 A1	20051020	LSPB	+	published / reissued	
WO05098550 A1	20061003	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
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WO05098550 A1	20070502	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: SYSTEM AND METHOD FOR REFURBISHING PRINT CARTRIDGES AND PRINT CARTRIDGE TONER BLADES

Abstract: A refurbished toner blade for a toner cartridge and a method for refurbishing a toner blade for a toner cartridge are provided. The refurbished toner blade includes a fixed portion configured for attachment to a portion of a toner cartridge, a depending portion extending away from the fixed portion, and a permanent deflection that is formed during refurbishment of the toner blade and that extends between the fixed portion and the depending portion. The refurbished toner blade is formed from a used toner blade in which the depending portion has obtained a permanent deformation in a first direction after an initial period of use. The permanent deflection deflects the depending portion in a second direction opposite the first direction.

Classifications:**International (IPC 8-9):** G03G15/00 G03G15/08

G03G21/18 (Advanced/Invention)

CPC: G03G21/181**US:** 399/109**Family:**

Publication number	Publication date	Application number	Application date
US2014112683 AA	20140424	US20130030255	20130918
US8995873 BB	20150331	US20130030255	20130918

Priority:

US20120703503P 20120920 US20130030255 20130918

Probable Assignee: CLOVER TECHNOLOGIES GROUP LLC**Assignee(s):** (std): CLOVER TECHNOLOGIES GROUP LLC**Inventor(s):** (std): HORMANN HEYMO ; KORZENECKI PAUL MICHAEL ; LI JUN**Agent(s):** MATTHEW G**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US2014112683 AA	20140424	LSPB	+	published / reissued	
US8995873 BB	20150331	LSGT	+	granted / extensions (spc, cpc, pte)	
US8995873 BB	20131014	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CLOVER TECHNOLOGIES GROUP, LLC, ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:LI, JUN; HORMAN, HEYMO; KORZENECKI, PAUL MICHAEL; SIGNING DATES FROM 20121217 TO 20131004; REEL/FRAME:031397/0171
US8995873 BB	20150311	LSGT	PAT1	Patented Case	
US8995873 BB	20180430	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8995873 BB	20330918	PEXP		Calculated Patent Term Expiry	