

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5451527

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	ST. JUDE MEDICAL LUXEMBOURG HOLDING S.À R.L.	12/15/2015
RECEIVING PARTY DATA		
Name:	ST JUDE MEDICAL INTERNATIONAL HOLDING S.À R.L.	
Street Address:	4, RUE DICKS, L-1417	
City:	LUXEMBOURG	
State/Country:	LUXEMBOURG	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15855639
CORRESPONDENCE DATA		
Fax Number:	(651)756-2808	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	6517562000	
Email:	jillian.awe@abbott.com	
Correspondent Name:	KRISTOFOR L. STORVICK	
Address Line 1:	ONE ST. JUDE MEDICAL DRIVE	
Address Line 4:	ST. PAUL, MINNESOTA 55117	
ATTORNEY DOCKET NUMBER:	CD-940USC2	
NAME OF SUBMITTER:	JILLIAN K. AWE	
SIGNATURE:	/Jillian K. Awe/	
DATE SIGNED:	04/01/2019	
Total Attachments: 24		
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CONFIRMATORY ASSIGNMENT

WHEREAS **St. Jude Medical Luxembourg Holding S.à r.l.**, a corporation organized and existing under the laws of Grand Duchy of Luxembourg, having its registered offices at 4, rue Dicks, L-1417 Luxembourg, Grand Duchy of Luxembourg, registered with the Luxembourg trade and companies register (*Registre de Commerce et des Sociétés de Luxembourg*) under registration number B 143811, hereinafter **ASSIGNOR**, by an agreement being executed concurrently (hereinafter said **Concurrent Agreement**), has assigned its entire right, title, and interest in, to, and under the inventions, patent applications, and patents set forth in **Schedules A, B, C, and D** hereto, including its entire right, title, and interest in, to, and under any and all patents obtained, or yet to be obtained, therefor throughout the world (hereinafter the **Territory**);

NOW, THEREFORE, for and in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, said **ASSIGNOR** hereby confirms that, via said **Concurrent Agreement**, it has sold, assigned, and transferred unto **St. Jude Medical International Holding S.à r.l.**, a private limited liability company (*société à responsabilité limitée*) incorporated and existing under the laws of the Grand Duchy of Luxembourg, with registered office at 4, rue Dicks, L-1417 Luxembourg, Grand Duchy of Luxembourg, and registered with the Luxembourg trade and companies register (*Registre de Commerce et des Sociétés de Luxembourg*) under registration number B 181342 (hereinafter **ASSIGNEE**), its successors and assigns, **ASSIGNOR's** entire right, title, and interest in, to, and under said inventions, said applications, and said patents set forth in **Schedules A, B, C, and D** hereto, and all divisions, continuations, continuations-in-part, reissues, or renewals thereof, and any other patents that have issued and that may or shall issue therefor in said **Territory**, including all of **ASSIGNOR's** entire rights under any and all international conventions, and including the **ASSIGNOR's** right to sue for infringement, to seek injunctive relief, and to collect, inter alia, money damages, royalties, lost profits, attorney fees, and costs for any infringement of the intellectual property assets covered by the **Concurrent Agreement** and this **Confirmatory Assignment**, whether such infringement may have already occurred or may occur in the future;

AND **ASSIGNOR** HEREBY confirms that **ASSIGNEE**, its successors and assigns, or anyone it has properly designated, is authorized to apply for patents, in its own name if desired, throughout said **Territory**, and additionally is authorized to claim the filing date of any aforesaid application, and otherwise take advantage of the provisions of any and all international conventions;

AND **ASSIGNOR** HEREBY authorizes and requests any official of any State whose duty consists of issuing patents, or other evidence or forms of any industrial property protection, on any aforesaid application, to issue same to said **ASSIGNEE**, its successors and assigns, in accordance herewith;

AND **ASSIGNOR** HEREBY covenants and agrees with **ASSIGNEE**, its successors and assigns, that **ASSIGNOR** had the full right to convey the entire interest assigned in said **Concurrent Agreement** and confirmed herein, and that **ASSIGNOR** has not executed, and will not execute, any agreement in conflict herewith, and that **ASSIGNOR** will not do any other act whatsoever conflicting with these presents, and that **ASSIGNOR** or its successors, assigns, executors, or administrators will at any time upon request, without further or additional consideration, but at the expense of **ASSIGNEE**, its successors and assigns, communicate to **ASSIGNEE**, its successors and assigns, any facts known to **ASSIGNOR** respecting said inventions, and testify in any legal proceedings, sign any lawful papers, execute any original, divisional, continuation, continuation-in-part, and reissue applications, make any rightful oaths, and generally do such additional acts as **ASSIGNEE**, its successors and assigns, may deem necessary or desirable to obtain and enforce proper protection for said inventions throughout said **Territory**;

AND **ASSIGNOR** HEREBY FURTHER covenants and agrees that this **Confirmatory Assignment** is effective as of 1 December 2015, same as the effective date of said **Concurrent Agreement**, and **ASSIGNOR** hereby confirms title in said **ASSIGNEE** as of this date.


ASSIGNOR's Initials

IN TESTIMONY WHEREOF, said **ASSIGNOR** hereunto sets its hand on the under-mentioned day and year, and delivers this **Confirmatory Assignment**.

St. Jude Medical Luxembourg Holding S.à r.l.

15.12.2015
(Date)

By: 
(Signature of **ASSIGNOR** Representative)

LEONARD STENKE
(Printed Name of **ASSIGNOR** Representative)

Liquidator
(Title of **ASSIGNOR** Representative)

I, Jacques KESSELER, Notary Public residing in Pétange (Luxembourg)
Grand Duchy of Luxembourg, hereby certify that:

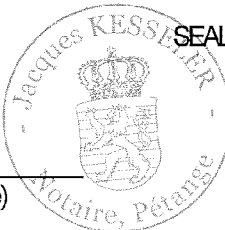
1. St. Jude Medical Luxembourg Holding S.à r.l. (the **Company**) is a private limited liability company (*société à responsabilité limitée*) incorporated and existing under the laws of the Grand Duchy of Luxembourg.
2. the signature of the individual who signed the confirmatory assignment above (the Confirmatory Assignment) is a genuine signature; and
3. according to the resolutions of the sole shareholder of the Company adopted on 5 October 2015 before Maître Jacques Kessler, notary public residing in Pétange, Grand Duchy of Luxembourg, the individual who has signed the Confirmatory Assignment is the liquidator of the Company and is duly authorised to execute the Confirmatory Assignment in the name and on behalf of the Company through his sole.

16 XII 2015
(Date)

Luxembourg
(Place)

not applicable
(Commission Expiry Date)

[Signature]
(Notary Public: Signature and Name)



SAID ASSIGNEE HEREBY acknowledges the aforesaid statements and accepts the aforesaid
Confirmatory Assignment;

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AND, IN TESTIMONY WHEREOF, said **ASSIGNEE** hereunto sets its hand on the under-mentioned day and year.

St. Jude Medical International Holding S.à r.l.

15.12.2015
(Date)

By: 
(Signature of **ASSIGNEE** Representative)

LEONARDI SOTAKÉ
(Printed Name of **ASSIGNEE** Representative)

Manager A
(Title of **ASSIGNEE** Representative)


(Witness #1: Signature)

Marie Lemud-Rio
(Witness #1: Printed Name)


(Witness #2: Signature)

Laurant Goyer
(Witness #2: Printed Name)

SCHEDULE A
[former Endosense US]

SCHEDULE A

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
US	10/518,979	21-Dec-04	CATHETERIZATION METHOD AND SYSTEM		7,640,053	29-Dec-09
US	11/450,072	9-Jun-06	CATHETER HAVING TRI-AXIAL FORCE SENSOR		8,048,063	1-Nov-11
US	11/435,926	15-May-06	CATHETER HAVING OPTICAL FIBER LOAD SENSING SYSTEM		8,075,498	11-Dec-11
US	11/753,429	24-May-07	TOUCH SENSING CATHETER		8,157,789	17-Apr-12
US	11/237,053	28-Sep-05	CATHETER HAVING OPTICAL FIBER LOAD SENSING SYSTEM		8,182,433	22-May-12
US	12/152,473	14-May-08	TEMPERATURE COMPENSATED STRAIN SENSING CATHETER		8,298,227	30-Oct-12
US	13/179,076	8-Jul-11	CATHETER HAVING TRI-AXIAL FORCE SENSOR		8,435,232	7-May-13
US	12/352,426	12-Jan-09	TRIAXIAL FIBER OPTIC FORCE SENSING CATHETER		8,567,265	29-Oct-13
US	12/127,657	27-May-08	ELONGATED SURGICAL MANIPULATOR WITH BODY POSITION AND DISTAL FORCE SENSING		8,622,935	7-Jan-14
US	12/776,762	10-May-10	METHOD AND APPARATUS FOR CONTROLLING LESION SIZE IN CATHETER-BASED ABLATION TREATMENT		8,641,705	4-Feb-14
US	11/989,902	22-Nov-10	CATHETER HAVING OPTICAL FIBER LOAD SENSING SYSTEM		8,894,589	25-Nov-14
US	13/084,214	11-Apr-11	CONTROL HANDLE FOR A CONTACT FORCE ABLATION CATHETER		8,906,013	9-Dec-14

SCHEDULE A

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
US	13/096,647	28-Apr-11	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY		8,932,288	13-Jan-15
US	13/308,196	30-Nov-11	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY		8,961,436	24-Feb-15
US	13/930,988	28-Jun-13	BI-DIRECTIONAL PLUNGER-TYPE CATHETER STEERING HANDLE		9,095,682	4-Aug-15
US	13/337,896	27-Dec-11	PREDICTION OF LEFT ANTERIOR WALL RECONNECTION BASED ON CONTACT FORCE MEASURED DURING RF ABLATION		9,149,327	6-Oct-15
US	13/842,349	15-Mar-13	STEERING CONTROL MECHANISMS FOR CATHETERS		9,174,024	3-Nov-15
US	13/104,726	10-May-11	FINNED ABLATION HEAD		9,179,968	10-Nov-15
US	60/704,825	1-Aug-05	CATHETER HAVING OPTICAL FIBER LOAD SENSING SYSTEM			
US	60/931,762	25-May-07	MANIPULATOR ARM WITH POSITION AND TOUCH SENSING			
US	61/143,718	9-Jan-09	FIBER OPTIC FORCE SENSING CATHETER			
US	61/176,519	8-May-09	METHOD AND APPARATUS FOR CONTROLLING LESION SIZE IN CATHETER-BASED ABLATION TREATMENT			

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Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
US	61/176,853	8-May-09	METHOD AND APPARATUS FOR VISUALIZING LESIONS IN CATHETER-BASED ABLATION TREATMENT			
US	61/177,180	10-Jun-09	METHOD AND APPARATUS FOR VISUALIZING LESIONS IN CATHETER-BASED ABLATION TREATMENT			
US	61/322,627	9-Apr-10	VARIABLE STIFFNESS STEERING MECHANISM FOR CATHETERS			
US	61/322,670	9-Apr-10	CONTROL HANDLE FOR A CONTACT FORCE ABLATION CATHETER			
US	61/333,045	10-May-10	FINNED ABLATION HEAD			
US	61/381,643	10-Sep-10	CONTROL HANDLE FOR A CONTACT FORCE ABLATION CATHETER			
US	61/409,379	2-Nov-10	CONTROL HANDLE FOR A CONTACT FORCE ABLATION CATHETER			
US	61/424,445	17-Dec-10	VARIABLE STIFFNESS STEERING MECHANISM FOR CATHETERS			
US	61/427,423	27-Dec-10	PREDICTION OF LEFT ANTERIOR WALL RECONNECTION BASED ON CONTACT FORCE MEASURED DURING RF ABLATION			

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Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
US	61/427,425	27-Dec-10	METHOD FOR PREDICTING LESION DEPTH AND THE PROBABILITY OF STEAM POP IN RF ABLATION THERAPY			
US	13/084,155	11-Apr-11	VARIABLE STIFFNESS STEERING MECHANISM FOR CATHETERS	2011-0251519		
US	61/475,384	14-Apr-11	COMPACT FORCE SENSOR FOR CATHETERS			
US	13/337,920	27-Dec-11	METHOD FOR PREDICTING THE PROBABILITY OF STEAM POP IN RF ABLATION THERAPY			
US	13/447,813	16-Apr-12	COMPACT FORCE SENSOR FOR CATHETERS	2012-0265102		
US	61/817,661	30-Apr-13	BI-DIRECTIONAL PLUNGER-TYPE CATHETER STEERING HANDLE			
US	61/819,216	3-May-13	DUAL BEND RADII STEERING CATHETER			
US	61/819,335	3-May-13	BI-DIRECTIONAL PLUNGER-TYPE CATHETER STEERING HANDLE			
US	14/011,286	27-Aug-13	DUAL BEND RADII STEERING CATHETER	2014-0330251		
US	14/064,898	28-Oct-13	TRIAxIAL FIBER OPTIC FORCE SENSING CATHETER	2014-0121537		
US	14/147,859	6-Jan-14	ELONGATED SURGICAL MANIPULATOR WITH BODY POSITION AND DISTAL FORCE SENSING			

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Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
US	14/160,108	21-Jan-14	METHOD AND APPARATUS FOR CONTROLLING LESION SIZE IN CATHETER-BASED ABLATION TREATMENT	2014-0194869		
US	14/562,370	5-Dec-14	CONTROL HANDLE FOR A CONTACT FORCE ABLATION CATHETER	2015-0157399		
US	14/573,666	17-Dec-14	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY	2015-0216612		
US	14/799,745	15-Jul-15	BI-DIRECTIONAL PLUNGER-TYPE CATHETER STEERING HANDLE			
US	14/876,786	5-Oct-15	PREDICTION OF LEFT ANTERIOR WALL RECONNECTION BASED ON CONTACT FORCE MEASURED DURING RF ABLATION			
US	14/928,699	30-Oct-15	STEERING CONTROL MECHANISMS FOR CATHETERS			

SCHEDULE B
[former Endosense OUS]

SCHEDULE B

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
AU	2002312708	26-Jun-02	CATHETERIZATION METHOD AND SYSTEM			
CA	2,703,347	7-May-10	METHOD AND APPARATUS FOR CONTROLLING LESION SIZE IN CATHETER-BASED ABLATION TREATMENT	2703347		
CN	201280028325.X	16-Apr-12	COMPACT FORCE SENSOR FOR CATHETERS	103607961		
CN	201080008299.5	8-Jan-10	A FIBER OPTIC FORCE SENSING CATHETER	102341053	ZL201080008299.5	7-Jan-15
CN	201010214632.X	7-May-10	METHOD AND APPARATUS FOR CONTROLLING LESION SIZE IN CATHETER-BASED ABLATION TREATMENT	101947130	ZL201010214632.X	4-Feb-15
CN	2014108381355.0	29-Dec-14	METHOD AND APPARATUS FOR CONTROLLING LESION SIZE IN CATHETER-BASED ABLATION TREATMENT			
CN	201180068522.X	27-Dec-11	PREDICTION OF ATRIAL WALL ELECTRICAL RECONNECTION BASED ON CONTACT FORCE MEASURED DURING RF ABLATION	103429183		
CN	200680007106.8	1-Mar-06	SYSTEM FOR MAPPING AND INTERVENTION OF AN ORGAN WITHIN THE HUMAN OR ANIMAL BODY	101132730	ZL200680007106.8	23-Jun-10
CN	201010168730.4	1-Mar-06	SYSTEM FOR MAPPING AND INTERVENTION OF AN ORGAN WITHIN THE HUMAN OR ANIMAL BODY	101874729	ZL201010138730.4	25-Jan-12

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Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
CN	200980125027.0	13-May-09	TEMPERATURE COMPENSATED STRAIN SENSING CATHETER	102098974	ZL200980125027.0	28-May-14
DE	6795186.3	1-Aug-06	CATHETER HAVING OPTICAL FIBER LOAD SENSING SYSTEM	1909650		8-Oct-14
DE	2737721.7	26-Jun-02	CATHETERIZATION SYSTEM		60220725.8	13-Jun-07
DE	10705179.9	8-Jan-10	A FIBER OPTIC FORCE SENSING CATHETER		602010009632.7	21-Aug-13
DE	11158967.7	1-Aug-06	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY		602006046898.8	7-Oct-15
DE	202010018025.2	10-May-10	METHOD AND APPARATUS FOR VISUALIZING LESIONS IN CATHETER-BASED ABLATION TREATMENT		202010018025.2	7-Nov-13
EP	2737721.7	26-Jun-02	CATHETERIZATION SYSTEM	1523271	1523271	13-Jun-07
EP	12716979.5	16-Apr-12	COMPACT FORCE SENSOR FOR CATHETERS	2696777		
EP	10705179.9	8-Jan-10	A FIBER OPTIC FORCE SENSING CATHETER	2385802	2385802	21-Aug-13
EP	6795186.3	1-Aug-06	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY	1909650	1909650	8-Oct-14
EP	5004852.9	4-Mar-05	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY			
EP	6710474.5	1-Mar-06	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY	1858401		
EP	11158967.7	1-Aug-06	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY	2363073	2363073	7-Oct-15

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Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
EP	15188373	5-Oct-15	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY			
EP	10162378.3	10-May-10	METHOD AND APPARATUS FOR CONTROLLING LESION SIZE IN CATHETER-BASED ABLATION TREATMENT	2248480		
EP	DIV – no # yet		METHOD AND APPARATUS FOR CONTROLLING LESION SIZE IN CATHETER-BASED ABLATION TREATMENT			
EP	11815655.3	27-Dec-11	PREDICTION OF ATRIAL WALL ELECTRICAL RECONNECTION BASED ON CONTACT FORCE MEASURED DURING RF ABLATION	2658464		
EP	9746251.9	13-May-09	TEMPERATURE COMPENSATED STRAIN SENSING CATHETER	2291135		
EP	8826173	23-May-08	TOUCH SENSING CATHETER	2157930		
FR	6795186.3	1-Aug-06	CATHETER HAVING OPTICAL FIBER LOAD SENSING SYSTEM	1909650	1909650	8-Oct-14
FR	10705179.9	8-Jan-10	A FIBER OPTIC FORCE SENSING CATHETER	2385802	2385802	21-Aug-13
FR	11158967.7	1-Aug-06	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY	2363073	2363073	7-Oct-15
GB	6795186.3	1-Aug-06	CATHETER HAVING OPTICAL FIBER LOAD SENSING SYSTEM	1909650	1909650	8-Oct-14
GB	10705179.9	8-Jan-10	A FIBER OPTIC FORCE SENSING CATHETER	2385802	2385802	21-Aug-13

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Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
GB	11158967.7	1-Aug-06	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY	2363073	2363073	7-Oct-15
IT	6795186.3	1-Aug-06	CATHETER HAVING OPTICAL FIBER LOAD SENSING SYSTEM	1909650	1909650	8-Oct-14
IT	2737721.7	26-Jun-02	CATHETERIZATION SYSTEM	1523271	1523271	13-Jun-07
IT	11158967.7	1-Aug-06	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY	2363073	2363073	7-Oct-15
JP	2011-544939	8-Jan-10	A FIBER OPTIC FORCE SENSING CATHETER	2012-514514	5416225	22-Nov-13
JP	2013-236122	8-Jan-10	A FIBER OPTIC FORCE SENSING CATHETER		5773463	10-Jul-15
JP	2014-505399	16-Apr-12	COMPACT FORCE SENSOR FOR CATHETERS			
JP	2007-557615	1-Mar-06	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY	2008531170	5270174	17-May-13
JP	2010-107727	7-May-10	METHOD AND APPARATUS FOR CONTROLLING LESION SIZE IN CATHETER-BASED ABLATION TREATMENT	2010-259810	57861008	7-Aug-15
JP	2013-547613	27-Dec-11	PREDICTION OF ATRIAL WALL ELECTRICAL RECONNECTION BASED ON CONTACT FORCE MEASURED DURING RF ABLATION	2014-507199		
JP	2011-509074	13-May-09	TEMPERATURE COMPENSATED STRAIN SENSING CATHETER	2011520499	5572155	4-Jul-14
WO	IB2014/001664	30-Apr-14	BI-DIRECTIONAL PLUNGER-TYPE CATHETER STEERING HANDLE	WO 2014/184665		

SCHEDULE B

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
WO	IB2006/002090	1-Aug-06	CATHETER HAVING OPTICAL FIBER LOAD SENSING SYSTEM	WO 2007/015139		
WO	CH2002/000349	26-Jun-02	CATHETERIZATION METHOD AND SYSTEM			
WO	US2012/033791	16-Apr-12	COMPACT FORCE SENSOR FOR CATHETERS	WO 2012/142588		
WO	IB2014/001619	30-Apr-14	DUAL BEND RADII STEERING CATHETER	WO 2014/184664		
WO	IB2010/000021	8-Jan-10	A FIBER OPTIC FORCE SENSING CATHETER	WO 2010/079418		
WO	IB2011/001004	10-May-11	IRRIGATED FINNED ABLATION HEAD	WO 2011/141800		
WO	IB2006/000428	1-Mar-06	MEDICAL APPARATUS SYSTEM HAVING OPTICAL FIBER LOAD SENSING CAPABILITY	WO 2006/092707		
WO	US2011/067391	27-Dec-11	PREDICTION OF ATRIAL WALL ELECTRICAL RECONNECTION BASED ON CONTACT FORCE MEASURED DURING RF ABLATION	WO 2012/092275		
WO	IB2009/051967	13-May-09	TEMPERATURE COMPENSATED STRAIN SENSING CATHETER	WO 2009/138957		
WO	IB2008/002675	23-May-08	TOUCH SENSING CATHETER	WO 2009/007857		

SCHEDULE C
[former MediGuide US]

SCHEDULE C

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
US	12/748,894	29-Mar-10	METHOD FOR DETECTING CONTACT WITH THE WALL OF A REGION OF INTEREST	2011-0237933		
US	12/843,095	26-Jul-10	REMOVABLE NAVIGATION SYSTEM AND METHOD FOR A MEDICAL DEVICE	2012-0017923		
US	12/950,841	19-Nov-10	SYSTEMS AND METHODS FOR NAVIGATING A SURGICAL DEVICE	2012-0130230	8,971,993	3-Mar-15
US	12/980,848	29-Dec-10	MEDICAL DEVICE GUIDEWIRE WITH A POSITION SENSOR	2012-0172761	8,764,683	1-Jul-14
US	12/981,963	30-Dec-10	METHOD OF ASSEMBLING A POSITIONING SENSOR AND ASSOCIATED WIRING ON A MEDICAL DEVICE	2012-0172842	8,636,718	28-Jan-14
US	12/982,120	30-Dec-10	ELECTROMAGNETIC COIL SENSOR FOR A MEDICAL DEVICE	2012-0172716		
US	13/232,536	14-Sep-11	METHOD FOR PRODUCING A MINIATURE ELECTROMAGNETIC COIL USING FLEXIBLE PRINTED CIRCUITRY	2013-0066194		
US	13/339,588	29-Dec-11	MOTION-COMPENSATED IMAGE FUSION	2013-0172730		
US	13/341,396	30-Dec-11	ROLL DETECTION AND SIX DEGREES OF FREEDOM SENSOR ASSEMBLY	2013-0169272		
US	13/748,196	23-Jan-13	DISTRIBUTED LOCATION SENSOR	2014-0206985		
US	13/753,117	29-Jan-13	SHIELDED TWISTED PAIR OF CONDUCTORS USING CONDUCTIVE INK	2014-0209372	9,101,046	4-Aug-15
US	13/977,438	25-Dec-11	SYSTEM AND METHOD FOR REGISTRATION OF FLUOROSCOPIC IMAGES IN A COORDINATE SYSTEM OF A MEDICAL DEVICE NAVIGATION SYSTEM	2013-0272592		

SCHEDULE C

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
US	14/159,007	20-Jan-14	METHOD OF ASSEMBLING A POSITIONING SENSOR AND ASSOCIATED WIRING ON A MEDICAL DEVICE	2014-0200556		
US	14/188,007	24-Feb-14	REPRESENTATIVE EMULATION OF ORGAN BEHAVIOR	2014-0243650		
US	14/208,120	13-Mar-14	MEDICAL DEVICE NAVIGATION SYSTEM	2014-0275998		
US	14/243,254	2-Apr-14	ENHANCED COMPENSATION OF MOTION IN A MOVING ORGAN USING PROCESSED REFERENCED SENSOR DATA	2014-0296657		
US	14/292,088	30-May-14	MEDICAL DEVICE GUIDEWIRE WITH A POSITION SENSOR	2014-0276226		
US	14/585,478	30-Dec-14	SYSTEMS AND METHODS FOR NAVIGATING A SURGICAL DEVICE	2015-0182294		
US	14/790,541	2-Jul-15	SHIELDED TWISTED PAIR OF CONDUCTORS USING CONDUCTIVE INK			
US	61/428,440	30-Dec-10	SYSTEM AND METHOD FOR REGISTRATION OF FLUOROSCOPIC IMAGES IN A COORDINATE SYSTEM OF A MEDICAL DEVICE NAVIGATION SYSTEM			
US	61/768,025	22-Feb-13	CINE REPLAY SYSTEM AND METHOD USING REPRESENTED IMAGES			
US	61/769,613	26-Feb-13	REPRESENTATIVE EMULATION OF ORGAN BEHAVIOR			
US	61/787,542	15-Mar-13	MEDICAL DEVICE NAVIGATION SYSTEM			
US	61/807,511	2-Apr-13	ENHANCED COMPENSATION OF MOTION IN A MOVING ORGAN USING PROCESSED REFERENCED SENSOR DATA			
US	61/808,047	3-Apr-13	REPRESENTATIVE EMULATION OF ORGAN BEHAVIOR			
US	61/834,223	12-Jun-13	MEDICAL DEVICE NAVIGATION SYSTEM			

SCHEDULE C

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
US	61/900,846	6-Nov-13	MAGNETIC FIELD GENERATOR WITH MINIMAL IMAGE OCCLUSION AND MINIMAL IMPACT ON DIMENSIONS IN C-ARM X-RAY ENVIRONMENTS			
US	62/003,008	26-May-14	CONTROL OF THE MOVEMENT AND IMAGE ACQUISITION OF AN X-RAY SYSTEM FOR A 3D/4D CO-REGISTERED RENDERING OF A TARGET ANATOMY			
US	62/020,881	3-Jul-14	LOCALIZED MAGNETIC FIELD GENERATOR			
US	62/098,813	31-Dec-14	LOCALIZED MAGNETIC FIELD GENERATOR			
US	62/101,133	8-Jan-15	MEDICAL SYSTEM HAVING COMBINED AND SYNERGIZED DATA OUTPUT FROM MULTIPLE INDEPENDENT INPUTS			
US	62/116,037	13-Feb-15	TRACKING-BASED 3D MODEL ENHANCEMENT			
US			COMBINE AND SYNERGIZE MAGNETIC NAVIGATION INFORMATION, ELECTRIC NAVIGATION INFORMATION, PHYSIOLOGICAL INFORMATION AND IMAGING INFORMATION			

SCHEDULE D
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SCHEDULE D

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
CN	2011800631380.0	27-Jun-13	MEDICAL DEVICE GUIDEWIRE WITH A POSITION SENSOR	103298514		
CN	2012800645265.0	25-Jun-14	ROLL DETECTION AND SIX DEGREES OF FREEDOM SENSOR ASSEMBLY	104023630		
CN	2014800045176.0	10-Jul-15	SHIELDED TWISTED PAIR OF CONDUCTORS USING CONDUCTIVE INK	104918548		
CN	2014800101161.0	24-Aug-15	MEDICAL DEVICE NAVIGATION SYSTEM	105025836		
CN	201280044517.X	13-Sep-12	METHOD FOR PRODUCING A MINIATURE ELECTROMAGNETIC COIL USING FLEXIBLE PRINTED CIRCUITRY	103930024		
EP	11814942.6	10-Jun-11	REMOVABLE NAVIGATION SYSTEM AND METHOD FOR A MEDICAL DEVICE	2574173		
EP	11854428.7	13-May-13	MEDICAL DEVICE GUIDEWIRE WITH A POSITION SENSOR	2627392		
EP	12783298.8	21-Feb-14	METHOD FOR PRODUCING A MINIATURE ELECTROMAGNETIC COIL USING FLEXIBLE PRINTED CIRCUITRY	2755554		
EP	12821133.1	20-May-14	ROLL DETECTION AND SIX DEGREES OF FREEDOM SENSOR ASSEMBLY	2797504		
EP	14705218.7	22-Apr-15	SHIELDED TWISTED PAIR OF CONDUCTORS USING CONDUCTIVE INK	2897525		
EP	14707615.2	3-Sep-15	METHOD FOR PRODUCING AN ELECTROPHYSIOLOGICAL MAP OF THE HEART	2950709		

SCHEDULE D

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
EP	14715681.4	9-Jul-15	MEDICAL DEVICE NAVIGATION SYSTEM	2928408		
EP	11 813 569.8	25-Dec-11	SYSTEM AND METHOD FOR REGISTRATION OF FLUOROSCOPIC IMAGES IN A COORDINATE SYSTEM OF A MEDICAL DEVICE NAVIGATION SYSTEM	2632336		
EP	14 710 055.6	21-May-15	REPRESENTATIVE EMULATION OF ORGAN BEHAVIOR	2908728		
IL	241531	10-Sep-15	MEDICAL DEVICE NAVIGATION SYSTEM			
JP	2013-521784	10-Jun-11	REMOVABLE NAVIGATION SYSTEM AND METHOD FOR A MEDICAL DEVICE	2013-535273		
JP	2013-547465	14-May-13	MEDICAL DEVICE GUIDEWIRE WITH A POSITION SENSOR		5721862	3-Apr-15
JP	2014-530356	11-Mar-14	METHOD FOR PRODUCING A MINIATURE ELECTROMAGNETIC COIL USING FLEXIBLE PRINTED CIRCUITRY	2014-530039		
JP	2014-549585	26-Jun-14	ROLL DETECTION AND SIX DEGREES OF FREEDOM SENSOR ASSEMBLY	2015-506202		
JP	2015-554292	1-May-15	SHIELDED TWISTED PAIR OF CONDUCTORS USING CONDUCTIVE INK			
JP		12-Aug-15	MEDICAL DEVICE NAVIGATION SYSTEM			
WO	PCT/IB2011/055954	25-Dec-11	SYSTEM AND METHOD FOR REGISTRATION OF FLUOROSCOPIC IMAGES IN A COORDINATE SYSTEM OF A MEDICAL DEVICE NAVIGATION SYSTEM	2012-090148		

SCHEDULE D

Country	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
WO	PCT/IB2012/054756	13-Sep-12	METHOD FOR PRODUCING A MINIATURE ELECTROMAGNETIC COIL USING FLEXIBLE PRINTED CIRCUITRY	2013-038354		
WO	PCT/IB2012/057418	18-Dec-12	ROLL DETECTION AND SIX DEGREES OF FREEDOM SENSOR ASSEMBLY	2013-098715		
WO	PCT/IB2014/058566	27-Jan-14	SHIELDED TWISTED PAIR OF CONDUCTORS USING CONDUCTIVE INK	2014-118686		
WO	PCT/IB2014/059120	20-Feb-14	REPRESENTATIVE EMULATION OF ORGAN BEHAVIOR	2014-128637		
WO	PCT/IB2014/059709	13-Mar-14	MEDICAL DEVICE NAVIGATION SYSTEM	2014-14113		
WO	PCT/IB2014/065497	21-Oct-14	MAGNETIC FIELD GENERATOR WITH MINIMAL IMAGE OCCLUSION AND MINIMAL IMPACT ON DIMENSIONS IN C-ARM X-RAY ENVIRONMENTS	2015-068069		
WO	PCT/IB2015/001528	26-May-15	CONTROL OF THE MOVEMENT AND IMAGE ACQUISITION OF AN X-RAY SYSTEM FOR A 3D/4D CO-REGISTERED RENDERING OF A TARGET ANATOMY			
WO	PCT/US2011/040034	10-Jun-11	REMOVABLE NAVIGATION SYSTEM AND METHOD FOR A MEDICAL DEVICE	2012-018435		
WO	PCT/US2011/056633	18-Oct-11	MEDICAL DEVICE GUIDEWIRE WITH A POSITION SENSOR	2012-091783		
WO	PCT/US2014/017140	19-Feb-14	METHOD FOR PRODUCING AN ELECTROPHYSIOLOGICAL MAP OF THE HEART	2014-137597		
WO	PCT/US2015/038863	1-Jul-15	LOCALIZED MAGNETIC FIELD GENERATOR			