### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5084292

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ST. JUDE MEDICAL, CARDIOLOGY DIVISION, INC.	08/30/2016

#### **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:	15146564		

#### **CORRESPONDENCE DATA**

**Fax Number:** (651)756-2808

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.

**Phone:** 6517562000

Email: jillian.awe@abbott.com
Correspondent Name: MARK D. LAVENDER

Address Line 1: 5050 NATHAN LANE NORTH
Address Line 4: PLYMOUTH, MINNESOTA 55442

ATTORNEY DOCKET NUMBER:	CD-921USO1
NAME OF SUBMITTER:	JILLIAN K. AWE
SIGNATURE:	/Jillian K. Awe/
DATE SIGNED:	08/06/2018

#### **Total Attachments: 8**

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### ACKNOWLDEGEMENT AND ASSIGNMENT

WHEREAS St. Jude Medical, Cardiology Division, Inc., a corporation organized and existing under the laws of the state of Minnesota, U.S.A. and having its registered address at 177 East County Road B, St. Paul, Minnesota 55117 U.S.A. (hereinafter CARDIOLOGY DIVISION), by this agreement (hereinafter 2016 Acknowledgement and Assignment), desires to assign its entire right, title, and interest in, to, or under the inventions, patent applications, and patents set forth in Schedules A and B hereto (hereinafter said Schedule IP), including any right, title, or interest in, to, or under any and all patents obtained, or yet to be obtained, therefor throughout the world (hereinafter the Territory);

WHEREAS St. Jude Medical International Holding S.à r.l., a private limited liability company (société à responsabilité limitée) organized 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 SJM INTERNATIONAL) by this 2016 Acknowledgement and Assignment desires to obtain the entire right, title, and interest in, to, or under said Schedule IP, including any right, title, or interest in, to, or under any and all patients obtained, or yet to be obtained, therefor throughout the Territory;

WHEREAS SJM INTERNATIONAL has been reminded and acknowledges that, pursuant to a Research and Development Services Agreement effective 1 January 2014 (hereinafter 2014 R&D Services Agreement) between CARDIOLOGY DIVISION and St. Jude Medical Luxembourg Holding S.à r.I., a private limited liability company (société à responsabilité limitée) that had been organized and that had existed under the laws of Grand Duchy of Luxembourg, previously having its registered offices at 4, rue Dicks, L-1417 Luxembourg, Grand Duchy of Luxembourg, and previously registered with the Luxembourg trade and companies registered (Registre de Commerce et des Sociétés de Luxembourg) under registration number B 143811 (hereinafter LUX), CARDIOLOGY DIVISION provided research and development services to LUX, including the development of "Future Confidential Information," "Future Intangible Property," and "Trademarks" (as defined in, respectively, §§ 1(i), 1(j), and 1(r) of said 2014 R&D Services Agreement, hereinafter said Transferred Property, which includes, inter alia, said Schedule IP;

WHEREAS CARDIOLOGY DIVISION has been informed and acknowledges that, in an Assignment and Transfer Agreement, effective 15 December 2015 (hereinafter 2015 Transfer Agreement), and in a concurrently-executed Confirmatory Assignment, effective 15 December 2015, both between LUX and SJM INTERNATIONAL, LUX assigned and transferred its rights and obligations in and under said 2014 R&D Services Agreement to SJM INTERNATIONAL, including LUX's right, pursuant to § 6.1 of said 2014 R&D Services Agreement, to obtain exclusive control and ownership of, inter alia, said Schedule IP, including, but not limited to, CARDIOLOGY DIVISION's entire right, title, and interest in, to, and under any and all patents obtained, or yet to be obtained, for said Schedule IP throughout the Territory:

WHEREAS, during the term of said 2014 R&D Services Agreement, matters were at times registered in the name of CARDIOLOGY DIVISION by recording assignments of said Transferred Property in the name of CARDIOLOGY DIVISION; and

WHEREAS, CARDIOLOGY DIVISION acknowledges that LUX no longer exists as an ongoing business.

NOW, THEREFORE, for and in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, CARDIOLOGY DIVISION hereby assigns and transfers unto SJM INTERNATIONAL, its successors and assigns, CARDIOLOGY DIVISION's entire right, title, and interest in, to, and under said Transferred Property, including all divisions, continuations, continuations-in-part, reissues, or renewals thereof, and any other

CARDIOLOGY DIVISION's Representative's Initials

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patents that have issued and that may or shall issue therefor in said **Territory**, including all of **CARDIOLOGY DIVISION**'s entire rights under any and all international conventions, and including **CARDIOLOGY DIVISION**'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 said **Transferred Property**, whether such infringement may have already occurred or may occur in the future;

AND CARDIOLOGY DIVISION HEREBY acknowledges and confirms that SJM INTERNATIONAL, its successors and assigns, or anyone it has properly designated, is authorized to apply for patents for said Transferred Property, in its own name if desired, throughout said Territory, and additionally is authorized to claim the filing date of any aforesaid Schedule IP, and otherwise take advantage of the provisions of any and all international conventions;

AND CARDIOLOGY DIVISION 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 **Transferred Property**, to issue same to **SJM INTERNATIONAL**, its successors and assigns;

AND CARDIOLOGY DIVISION HEREBY covenants and agrees with SJM INTERNATIONAL, its successors and assigns, that CARDIOLOGY DIVISION has the full right to convey the entire interest assigned herein, and that CARDIOLOGY DIVISION has not executed, and will not execute, any agreement in conflict herewith, and that CARDIOLOGY DIVISION will not do any other act whatsoever conflicting with these presents, and that CARDIOLOGY DIVISION or its successors, assigns, executors, or administrators will at any time upon request, without further or additional consideration, but at the expense of SJM INTERNATIONAL, its successors and assigns, communicate to SJM INTERNATIONAL, its successors and assigns, any facts known to CARDIOLOGY DIVISION respecting said Transferred Property, 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 SJM INTERNATIONAL, its successors and assigns, may deem necessary or desirable to obtain and enforce proper protection for said Transferred Property throughout said Territory;

AND CARDIOLOGY DIVISION HEREBY FURTHER covenants and agrees that this 2016

Acknowledgement and Assignment is effective as of the date of its execution; and CARDIOLOGY DIVISION hereby confirms title in said Transferred Property in SJM INTERNATIONAL as of that date.

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CARDIOLOGY DIVISION's Representative's Initials
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IN TESTIMONY WHEREOF, CARDIOLOGY DIVISION hereunto sets its hand on the under-mentioned day and year, and delivers this 2016 Acknowledgement and Assignment.

St. Jude Medical, Cardiology Division, Inc.

8/30/20/6 (Signature of CARDIOLOGY DIVISION Representative) (Printed Name of CARDIOLOGY DIVISION Representative) Vice Presiden (Title of CARDIOLOGY DIVISION Representative) TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared the above-named representative of CARDIOLOGY DIVISION, to me known and known to me to be the person of that name, who signed the foregoing 2016 Acknowledgement and Assignment and acknowledged that execution of the same was a free act and deed. (Date) SEAL. Jillian Kay Awe NOTARY PUBLIC State of Minnesota (Commission Expiry Date)

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SJM INTERNATIONAL HEREBY acknowledges the aforesaid statements and accepts the aforesaid 2016 Acknowledgement and Assignment;

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

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

<u>9/3/16</u>

(Printed Name of SJM INTERNATIONAL Representative

(Title of SJM INTERNATIONAL Representative)

(Witness #1: Signature)

Heather C. Mickelson

(Witness #1: Printed Name)

(Witness #2: Signature)

Witness #2: Printed Name

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## SCHEDULE A

# [CARDIOLOGY DIVISION gMPS post-2013 US]

Су	Application No.	Filling Date	Title	Publication No.	Patent No.	issue Date
US	61/932,386	28 January 2014	Medical device with a packaged electronic subassembly and method for fabricating the same			
US	15/114,011	25 July 2016	Medical device with a packaged electronic subassembly and method for fabricating the same			
US	62/052,255	18 September 2014	Active Guidewire with Integrated Sensor and Method			
US	15/115,228	28 July 2016	Elongale Medical Devices Incorporating a Flexible Substrate, a Sensor, and Electrically- Conductive Traces			
US	62/133,970	16 March 2015	Field concentrating antennas for magnetic position sensors			
US	62/090,768	11 December 2014	Multi-Layer Sensor Core			
US	61/128,387	04 March 2015	Multi-Layer Sensor Core			
US	62/133,993	16 March 2015	Field concentrating antennas for magnetic position sensors			
US	15/072,185	16 March 2016	Field Concentrating Antennas for Magnetic Position Sensors			
US	62/170,466	03 June 2015	Active Magnetic Position Sensor			

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Су	Application No.	Filing Date	Title	Publication No.	Patent No.	issue Date
US	62/331,338	03 May 2016	Magnetic field distortion detection and correction in a magnetic localization system			
US	62/273,885	31 December 2015	Connector shield for sensor enabled medical devices			
US	62/158,795	08 May 2015	Integrated sensors for medical devices and method of making integrated sensors for medical devices			
US	15/146,564	04 May 2016	Integrated Sensors for Medical Devices and Method of Making Integrated Sensors for Medical Devices			
US	62/290,818	03 February 2016	A Method of Cancellation of Source Induced Errors in Connection Used in a 3D Magnetic Navigation System			
US	62/198,892	30 July 2015	Roll-Sensing Sensor Assembly			
US	62/251,504	05 November 2015	Sensor coil assembly			
US	61/983,221	23 April 2014	System and method for displaying cardiac mechanical activation patterns			

### SCHEDULE B

# [CARDIOLOGY DIVISION gMPS post-2013 OUS]

Су	Application No.	Filing Date	Title	Publication No.	Patent No.	Issue Date
CN	201580005978X	27 June 2016	Medical device with a packaged electronic subassembly and method for fabricating the same			
EP	15704638.4	12 July 2016	Medical device with a packaged electronic subassembly and method for fabricating the same			
ΕP	15705739.9	21 July 2016	Elongate Medical Devices Incorporating a Flexible Substrate, a Sensor, and Electrically- Conductive Traces			
JP	Not Yet Assigned	26 July 2016	Medical device with a packaged electronic subassembly and method for fabricating the same			
WO	PCT/US2015/013010	27 January 2015	Medical device with a packaged electronic subassembly and method for fabricating the same	2015-116562		

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Су	Application No.	Filing Date	Title	Publication No.	Patent No.	issue Date
wo	PCT/US2015/013301	28 January 2015	Elongate Medical Devices Incorporating a Flexible Substrate, a Sensor, and Electrically- Conductive Traces	2015-116687		
wo	PCT/US2016/022669	16 March 2016	Field Concentrating Antennas for Magnetic Position Sensors			
WO	PCT/US2015/065383	11 December 2015	Multi-layer sensor core	2016-094865		
WO	PCT/US2016/035808	03 June 2016	Active Magnetic Position Sensor			
WO	PCT/IB2016/054585	29 July 2016	Roll-Sensing Sensor Assembly			***************************************
wo	PCT/US2015/027390	23 April 2015	System and method for displaying cardiac mechanical activation patterns	2015-164667		