

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7254411

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ST. JUDE MEDICAL, CARDIOLOGY DIVISION, INC.	08/30/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ST JUDE MEDICAL INTERNATIONAL HOLDING S.À R.L.
<b>Street Address:</b>	4, RUE DICKS, L-1417
<b>City:</b>	LUXEMBOURG
<b>State/Country:</b>	LUXEMBOURG
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17195064
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	2246682839
<b>Email:</b>	rosario.guadarrama@abbott.com
<b>Correspondent Name:</b>	KATHERINE J. RAHLIN
<b>Address Line 1:</b>	5050 NATHAN LANE N.
<b>Address Line 4:</b>	PLYMOUTH, MINNESOTA 55442
<b>ATTORNEY DOCKET NUMBER:</b>	CD-921USC1
<b>NAME OF SUBMITTER:</b>	ROSARIO GUADARRAMA
<b>SIGNATURE:</b>	/Rosario Guadarrama/
<b>DATE SIGNED:</b>	03/30/2022
<b>Total Attachments: 8</b>	
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**ACKNOWLEDGEMENT  
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 patents 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.l.**, 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**) during the term 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



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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PATENT  
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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.

8/30/2016  
(Date)

By: [Signature]  
(Signature of **CARDIOLOGY DIVISION** Representative)

Thomas V. Rendos  
(Printed Name of **CARDIOLOGY DIVISION** Representative)

Vice President  
(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.

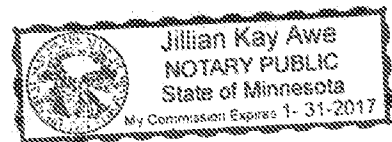
8/30/2016  
(Date)

Plymouth, Minnesota, USA  
(Place)

SEAL

1/31/2017  
(Commission Expiry Date)

Jillian Kay Awe  
(Notary Public: Signature and Name)



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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.l.

9/30/16  
(Date)

By:   
(Signature of SJM INTERNATIONAL Representative)

Scott A Marks  
(Printed Name of SJM INTERNATIONAL Representative)

Managing Counsel  
(Title of SJM INTERNATIONAL Representative)

  
(Witness #1: Signature)

Heather C. Mickelson  
(Witness #1: Printed Name)

  
(Witness #2: Signature)

Julian K. Awe  
(Witness #2: Printed Name)

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## SCHEDULE A

### [CARDIOLOGY DIVISION gMPS post-2013 US]

Cy	Application No.	Filing 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	Elongate 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			

Cy	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	15/146,584	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]**

Cy	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			
EP	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		

Cy	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		