

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT8062296

<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 LUXEMBOURG HOLDINGS SMI S.A.R.L ("SJM LUX SMI")	12/30/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TC1 LLC
<b>Street Address:</b>	THE CORPORATION TRUST COMPANY
<b>Internal Address:</b>	1209 ORANGE STREET
<b>City:</b>	WILMINGTON
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19801
<b>PROPERTY NUMBERS Total: 6</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17107101
Application Number:	15688546
Application Number:	15231555
Application Number:	14726359
Application Number:	12607009
Application Number:	13365163
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)855-8200
<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>	2148558000
<b>Email:</b>	shannon.berger@nortonrosefulbright.com
<b>Correspondent Name:</b>	ALLAN BRAXDALE/NORTON ROSE FULBRIGHT US LLP
<b>Address Line 1:</b>	2200 ROSS AVENUE, SUITE 3600
<b>Address Line 4:</b>	DALLAS, TEXAS 75201
<b>ATTORNEY DOCKET NUMBER:</b>	ABBT.P0007US.C1
<b>NAME OF SUBMITTER:</b>	ALLAN BRAXDALE
<b>SIGNATURE:</b>	/Allan Braxdale/
<b>DATE SIGNED:</b>	07/18/2023

**Total Attachments: 8**

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### **Confirmatory Patent Assignment**

This PATENT ASSIGNMENT (this "Assignment") is made effective as of December 30, 2019 by and between St. Jude Medical Luxembourg Holdings SMI 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 its registered address at 26, boulevard Royal, L-2449 Luxembourg, Grand-Duchy of Luxembourg and registered with the Luxembourg Trade and Companies Register (*R.C.S. Luxembourg*) under number B198656 ("Assignor") and TC1 LLC, a limited liability company organized and existing under the laws of the State of Delaware, having a registered office at The Corporation Trust Company, 1209 Orange Street, Wilmington, DE 19801, United States of America ("Assignee").

Assignee acquired from Assignor under a Transfer Agreement, effective as of December 30, 2019 at 9:10 A.M. Central Standard Time (the "Effective Date"), by and between Assignor and Assignee (the "Transfer Agreement"), all of Assignor's rights and interest in and to, *inter alia*, all patents (including all reissues, divisions, continuations, continuations-in-part and extensions thereof), patent applications or invention discoveries, including the right to claim for any such patent applications the full benefits and priority rights of each application under the Patent Cooperation Treaty, the Paris Convention, and any other international agreement related to certain Technology (as defined in the Transfer Agreement), including, without limitation, the patents and patent applications set forth in *Schedule 1* to this Assignment, and any and all reissues, divisions, continuations, continuations-in-part and extensions thereof (collectively, the "Assigned Patents"). Assignor and Assignee hereby wish to confirm and record the assignment of the Assigned Patents from Assignor to Assignee.

In consideration of the consideration under the Transfer Agreement, the receipt and sufficiency of which is hereby acknowledged:

1. Assignor and Assignee hereby confirm that, effective as of the Effective Date, Assignor sold, assigned, and transferred to Assignee, and Assignee purchased, acquired, and accepted from Assignor, all of Assignor's right, title, and interest in and to the Assigned Patents.
2. The sale, assignment, and transfer of the Assigned Patents to Assignee includes, without limitation, the sale, assignment, and transfer to Assignee of the sole right to continue the prosecution of any application included in the Assigned Patents, maintain all patents included in the Assigned Patents, defend any of the Assigned Patents against any challenge of validity, enforceability, ownership, rights, or otherwise, and assert and enforce, and to initiate and/or continue any action, suit, litigation, or other proceeding of any kind, in its sole discretion, in and/or under the laws of any country and jurisdiction, any of the Assigned Patents against any infringement or violation of any of the Assigned Patents or any right thereunder, and to assert, receive, collect, and retain all damages and other remedies, against any infringement of any of the Assigned Patents, whether such infringement, violation, or damages have occurred or accrued in the past, are occurring or accruing, or will occur or accrue in the future.
3. Assignor does not retain, whether expressly, by implication, estoppel or otherwise, any right, title, or interest in and to any Assigned Patent or any of the aforementioned rights. In the event or to the extent that any right, title, or interest in or to any of the Assigned Patents, or any of the aforementioned rights, is not validly or effectively assigned, transferred, or conveyed under the Transfer Agreement, Assignor hereby sells, assigns, transfers, and conveys to Assignee, and Assignee hereby purchases, acquires, and accepts from Assignor, all of such right, title, or interest in or to any of the Assigned Patents and of the aforementioned rights, effective as of the Effective Date.
4. Upon Assignee's request, Assignor shall provide any assistance, including, without limitation, providing any information and documents, executing any documents and affidavits, providing any testimony, and/or rendering any other assistance, as is necessary or useful for Assignee to secure and perfect sole and exclusive ownership of, and obtain registrations in the name of solely Assignee or a third party designated by Assignee, for the Assigned Patents and/or any part thereof, and to otherwise fully effect and implement the provisions in this Assignment.

5. Should any section, or portion thereof, of this Assignment be held invalid by reason of any law existing now or in the future in any jurisdiction by any court of competent authority or by a legally enforceable directive of any governmental body, such section or portion thereof shall be validly reformed so as to approximate the intent of Assignor and Assignee as set forth herein as nearly as possible and, if unreformable, shall be deemed divisible and deleted with respect to such jurisdiction; this Assignment shall not otherwise be affected. This Assignment shall be binding upon Assignor and all of Assignor's successors and assigns, and shall be binding upon and inure to the benefit of Assignee and its successors and assigns. Nothing in this Assignment modifies, amendments, limits, curtails, or derogates from any of the terms, conditions, covenants, rights, and obligations in the Transfer Agreement. The laws of the State of Delaware, United States of America (excluding its rules governing conflicts of laws that may require an application of a different law) shall govern the construction, interpretation, and other matters arising out of or in connection with this Assignment, except to the extent that mandatory provisions of other jurisdictions apply to the sale, transfer and assignment of the Assigned Patents, transfer and assignment of the Assigned Patents.

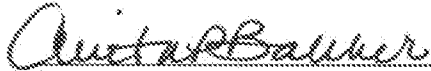
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Assignor and Assignee have executed this Assignment as follows:

Assignor:

Assignee:

St. Jude Medical Luxembourg Holdings SMI S.à r.l. TCI LLC



Name: Anita Bakker

Title: Category A Manager

Name: Tara R. Kaesebier

Title: Assistant Secretary

4561986

Assignor and Assignee have executed this Assignment as follows:

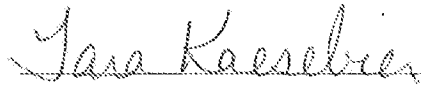
Assignor:

Assignee:

St. Jude Medical Luxembourg Holdings SMI S.à r.l. TCI LLC

\_\_\_\_\_  
Name: Anita Bakker

Title: Category A Manager

\_\_\_\_\_

Name: Tara R. Kaesebier

Title: Assistant Secretary

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**Schedule 1**

The Assigned Patents include, without limitation, the following:

See attached.

Application Number	Application Date	Patent Number	Grant Date	Publication Date	Publication Number	Status	Country	Title
13568271	7/25/2012	8914128	12/16/2014	11/15/2012	20120230042	Granted	United States	Methods, Devices and Systems for Programming Neurostimulation
12578179	10/14/2009	8249701	8/21/2012	5/13/2010	201007121408	Granted	United States	Methods, Devices and Systems for Programming Neurostimulation
2011341499	12/2/2011	2011341499	2/16/2016	11/51/2016	2011341499	Granted	Australia	Direct Memory Access (DMA) Controlled Stimulation
2820794	12/2/2011	2820794	1/2/2018	6/21/2012	2820794	Granted	Canada	Direct Memory Access (DMA) Controlled Stimulation
11849388.1	12/2/2011	2651466	12/2/2015	10/23/2013	2651465	Granted	Switzerland	Direct Memory Access (DMA) Controlled Stimulation
11849388.1	12/2/2011	602011021623.9	12/2/2015	10/23/2013	2651465	Granted	Germany	Direct Memory Access (DMA) Controlled Stimulation
11849388.1	12/2/2011	2651466	12/2/2015	10/23/2013	2651465	Granted	European Patent Convention	Direct Memory Access (DMA) Controlled Stimulation
11849388.1	12/2/2011	2651466	12/2/2015	10/23/2013	2651465	Granted	France	Direct Memory Access (DMA) Controlled Stimulation
11849388.1	12/2/2011	2651466	12/2/2015	10/23/2013	2651465	Granted	Ireland	Direct Memory Access (DMA) Controlled Stimulation
2013-544539	12/2/2011	5969500	7/15/2016		2651465	Granted	Japan	Direct Memory Access (DMA) Controlled Stimulation
13954774	7/30/2013	8774931	7/8/2014	11/28/2013	20130318259	Granted	United States	Direct Memory Access (DMA) Controlled Stimulation
13023470	2/8/2011	8528784	9/10/2013	6/21/2012	20120158096	Granted	United States	Direct Memory Access (DMA) Controlled Stimulation
12693946	9/29/2010	9709465	9/5/2017	2/2/2012	20120029599	Granted	United States	Neurostimulation Programmes with Improved RF Antenna Radiation
2012240226	4/4/2012	2012240226	6/17/2016	3/17/2016	2012240226	Granted	Australia	Power Efficient Wireless RF Communication Between a Base Station and a Medical Device
2832347	4/4/2012	2832347	8/8/2017	10/11/2012	2832347	Granted	Canada	Power Efficient Wireless RF Communication Between a Base Station and a Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	Switzerland	Power Efficient Wireless RF Communication Between a Base Station And A Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	Germany	Power Efficient Wireless RF Communication Between a Base Station And A Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	European Patent Convention	Power Efficient Wireless RF Communication Between a Base Station And A Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	France	Power Efficient Wireless RF Communication Between a Base Station And A Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	Great Britain	Power Efficient Wireless RF Communication Between a Base Station And A Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	Ireland	Power Efficient Wireless RF Communication Between a Base Station And A Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	Italy	Power Efficient Wireless RF Communication Between a Base Station And A Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	Japan	Power Efficient Wireless RF Communication Between a Base Station And A Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	Leichtenstein	Power Efficient Wireless RF Communication Between a Base Station And A Medical Device
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	United States	Establishing an RF Link Between a Base Station and a Medical Device
2014-503960	4/4/2012	5952894	6/17/2016	10/11/2012	20120029599	Granted	United States	Power Efficient Wireless RF Communication Between a Base Station
1267290.5	4/4/2012	2694153	11/22/2017		2694153	Granted	United States	Power Efficient Wireless RF Communication Between a Base Station
14794007	6/29/2015	9696781	6/20/2017	10/22/2015	20150305002	Granted	European Patent Convention	Methods and Systems for Automatically Turning ON and OFF DRG Stimulation and Adjusting DRG Stimulation Parameters
15021130	6/19/2017	9696505	5/29/2018	10/12/2017	20170295542	Granted	United States	Methods and Systems for Automatically Turning ON and OFF DRG Stimulation and Adjusting DRG Stimulation Parameters
13428667	9/13/2012	9113473	8/18/2015	10/11/2012	201200258756	Granted	United States	Methods and Systems for Automatically Turning ON and OFF DRG Stimulation and Adjusting DRG Stimulation Parameters
13499663	2/17/2012	8843206	9/23/2014	10/18/2012	20120265272	Granted	United States	Telemetry Antennas for Medical Devices Including Telemetry Antennas
14735707.3	5/16/2014	2996786	11/21/2018	3/23/2016	2996786	Granted	European Patent Convention	Methods and Systems for Automatically Turning ON and OFF DRG Stimulation and Adjusting DRG Stimulation Parameters
14735707.3	5/16/2014	2996786	11/21/2018		2996786	Granted	France	Methods and Systems for Automatically Turning ON and OFF DRG Stimulation and Adjusting DRG Stimulation Parameters
14735707.3	5/16/2014	2996786	11/21/2018		2996786	Granted	Great Britain	Methods and Systems for Automatically Turning ON and OFF DRG Stimulation and Adjusting DRG Stimulation Parameters
14735707.3	5/16/2014	2996786	11/21/2018		2996786	Granted	Ireland	Methods and Systems for Automatically Turning ON and OFF DRG Stimulation and Adjusting DRG Stimulation Parameters
14735707.3	5/16/2014	2996786	11/21/2018		2996786	Granted	United States	Methods and Systems for Automatically Turning ON and OFF DRG Stimulation and Adjusting DRG Stimulation Parameters
14735707.3	5/16/2014	2996786	11/21/2018		2996786	Granted	United States	Methods and Systems for Automatically Turning ON and OFF DRG Stimulation and Adjusting DRG Stimulation Parameters
14606765	1/27/2015	9463320	10/11/2016	7/30/2015	20150209592	Granted	United States	Implantable Neurostimulator Devices Including Both Non-Rechargeable
15268865	10/10/2016	9968795	5/15/2018	5/11/2017	20170128733	Granted	United States	Implantable Neurostimulator Devices Including Both Non-Rechargeable
11794370.4	12/1/2011			10/9/2013	2846107	Filed	European Patent Convention	Agent Delivery Systems For Selective Neuromodulation
5241/DELNP/2013	10/17/2013			5/27/2016	5241/DELNP/2013 A	Filed	India	Neurostimulation Methods and Systems
201324506	10/17/2013	201324506	1/29/2015			Granted	Australia	Neurostimulation Methods and Systems
2005282379	9/7/2005	2005282379	5/3/2012			Granted	Australia	Neurostimulation Methods and Systems
2012201634	9/7/2005	2012201634	10/31/2013			Granted	Australia	Neurostimulation Methods and Systems
2015202180	9/7/2005	2015202180	8/3/2017			Granted	Australia	Neurostimulation Methods and Systems
2579569	9/7/2005	2579569	7/5/2016	3/16/2006	2579569	Granted	Canada	Neurostimulation Methods and Systems
200580036342.8	9/7/2005	ZL200580036342.8	4/13/2011	10/3/2007	101048194	Granted	China P. R.	Neurostimulation Methods and Systems
05794902.6	9/7/2005				1793983	Filed	European Patent Convention	Neurostimulation Methods and Systems
1627/DELNP/2007	9/7/2005					Filed	India	Neurostimulation Methods and Systems
2007-531323	9/7/2005	5132310	11/16/2012	8/20/2009	20090210041	Granted	Japan	Neurostimulation Methods and Systems
2014-118720	6/9/2014	6035285	11/4/2016			Granted	Japan	Neurostimulation Methods and Systems
13402786	2/22/2012	920559	12/8/2015	8/2/2012	20120193730	Granted	United States	Neurostimulation System
13550439	7/16/2012	9205580	12/8/2015	11/8/2012	2012023697	Granted	United States	Methods for Stimulating a Dorsal Root Ganglion
15290953	10/11/2016	10159838	12/25/2018	4/6/2017	20170095666	Filed	United States	Methods For Stimulating A Dorsal Root Ganglion
16/30949	12/21/2009					Filed	United States	Methods for Stimulating a Dorsal Root Ganglion
12568706	2/11/2009	8225665	7/24/2012	8/20/2009	20090210041	Granted	United States	Methods for Stimulating a Dorsal Root Ganglion
11222516	9/7/2005	7502651	3/10/2009	3/9/2006	20060052839	Granted	United States	Methods for Stimulating a Dorsal Root Ganglion
11221570	9/7/2005	7337005	2/26/2008	3/9/2006	20060052828	Granted	United States	Methods for Stimulating a Dorsal Root Ganglion
11221578	9/7/2005	7337006	2/26/2008	3/9/2006	20060052837	Granted	United States	Methods for Stimulating a Dorsal Root Ganglion
11221571	9/7/2005	7450963	11/11/2008	3/9/2006	20060052835	Granted	United States	Methods and Systems for Modulating Neural Tissue
11221563	9/7/2005	7560753	8/25/2009	3/9/2006	20060052826	Granted	United States	Methods for Stimulating the Spinal Cord and Nervous System
11222513	9/7/2005	8062039	12/20/2011	3/9/2006	20060052827	Granted	United States	Pulse Generator for High Impedance Electrodes
11221567	9/7/2005	7447546	11/4/2008	3/9/2006	20060052838	Granted	United States	Stimulation Systems
12051770	3/19/2008	8712546	4/29/2014	7/10/2008	20080167698	Granted	United States	Methods of Neurostimulating Targeted Neural Tissue
13706100	12/5/2012	9205261	12/8/2015	6/27/2013	20130165991	Granted	United States	Neurostimulation System
15633006	6/27/2017	9919149	3/20/2018	10/12/2017	20170231026	Granted	United States	Neurostimulation Methods and Systems
11953085	12/6/2007	9427570	6/13/2018	6/12/2008	20080140153	Granted	United States	Expandable Stimulation Leads And Methods Of Use
07865336.3	12/6/2007	2094350	8/13/2016		2094350	Granted	European Patent Convention	Grouped Leads For Spinal Stimulation
2013-166689	9/9/2013	5759519	6/12/2015	12/5/2013	2013-240710	Granted	Japan	Grouped Leads For Spinal Stimulation
2014201494	12/6/2007	2014201494	3/17/2016	12/3/2015	2014201494	Granted	Australia	Delivery Devices, Systems and Methods for Stimulating Nerve Tissue



Application Number	Application Date	Patent Number	Grant Date	Publication Date	Publication Number	Status	Country	Title
2007329253	1/26/2007	2007329253	7/10/2014	6/12/2008	2671286	Granted	Australia	Delivery Devices, Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
2671286	1/26/2007	2007329253	6/12/2008	2671286	2671286	Granted	Canada	Delivery Devices, Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
200780045205	1/26/2007	200780045205	3/14/2012	11/4/2009	1015173150	Granted	China P. R.	Delivery Devices, Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
07865341.7	1/26/2007	602007055062.9	6/6/2018		2091594	Granted	Germany	Delivery Devices Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
07865341.7	1/26/2007	2091594	6/6/2018		2091594	Granted	European Patent Convention	Delivery Devices Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
07865341.7	1/26/2007	2091594	6/6/2018		2091594	Granted	France	Delivery Devices Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
07865341.7	1/26/2007	2091594	6/6/2018		2091594	Granted	Great Britain	Delivery Devices Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
2009-540488	1/26/2007	5414531	4/22/2010		2010-512187	Granted	Japan	Delivery Devices, Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
14633046	2/26/2015	9623233	4/18/2015		20150165193	Granted	United States	Delivery Devices, Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
11652035	1/26/2007	8963624	3/17/2015	6/12/2008	20080140789	Granted	United States	Delivery Devices, Systems and Methods for Stimulating Nerve Tissue on Multiple Spinal Levels
13175488	7/1/2011	8518092	8/27/2013	10/20/2011	20110237693	Granted	United States	Hard Tissue Anchors and Delivery Devices
2008210504	1/29/2008	2008210504	1/18/2012		2111253	Granted	Australia	Sutureless Lead Retention Features
08728485.7	1/29/2008	602008055090.7	5/2/2018	10/28/2009	2111253	Granted	Germany	Sutureless Lead Retention Features
08728485.7	1/29/2008	2111253	5/2/2018		2111253	Granted	European Patent Convention	Sutureless Lead Retention Features
08728485.7	1/29/2008	2111253	5/2/2018		2111253	Granted	France	Sutureless Lead Retention Features
08728485.7	1/29/2008	2111253	5/2/2018		2111253	Granted	Great Britain	Sutureless Lead Retention Features
2009-546399	1/29/2008	5562848	6/20/2014		2010-516436	Granted	Japan	Sutureless Lead Retention Features
14719076	5/21/2015		9/10/2015		20150251004	Granted	United States	Sutureless Lead Retention Features
12022135	1/29/2008	9044592	6/2/2015	7/31/2008	20080163257	Granted	United States	Sutureless Lead Retention Features
2009320106	10/27/2009	2009320106	4/21/2016	6/3/2010	2009320106	Granted	Australia	Selective Stimulation Systems and Signal Parameters for Medical Conditions
2740791	10/27/2009	2740791	8/1/2017	6/3/2010	2740791	Granted	Canada	Selective Stimulation Systems and Signal Parameters for Medical Conditions
09744875.7	10/27/2009	2373378	4/26/2017		2373378	Granted	Switzerland	Selective Stimulation Systems and Signal Parameters for Medical Conditions
200980142660	10/27/2009	102202729	1/5/2014	9/28/2011	102202729	Granted	China P. R.	Selective Stimulation Systems and Signal Parameters for Medical Conditions
09744875.7	10/27/2009	602009045695.4	4/26/2017	6/3/2010	2373378	Granted	Germany	Selective Stimulation Systems and Signal Parameters for Medical Conditions
17159449.2	3/6/2017		6/9/2017		3202467	Filed	European Patent Convention	Selective Stimulation Systems and Signal Parameters for Medical Conditions
09744875.7	10/27/2009	2373378	4/26/2017		2373378	Granted	European Patent Convention	Selective Stimulation Systems and Signal Parameters for Medical Conditions
09744875.7	10/27/2009	2373378	4/26/2017		2373378	Granted	France	Selective Stimulation Systems and Signal Parameters for Medical Conditions
09744875.7	10/27/2009	2373378	4/26/2017		2373378	Granted	Great Britain	Selective Stimulation Systems and Signal Parameters for Medical Conditions
09744875.7	10/27/2009	2373378	4/26/2017		2373378	Granted	Ireland	Selective Stimulation Systems and Signal Parameters for Medical Conditions
09744875.7	10/27/2009	2373378	4/26/2017		2373378	Filed	India	Selective Stimulation Systems and Signal Parameters for Medical Conditions
2877DELNP/2011	10/27/2009				2373378	Granted	Italy	Selective Stimulation Systems and Signal Parameters for Medical Conditions
502017000077535	10/27/2009	2373378	4/26/2017	3/22/2012	2012-506759	Granted	Japan	Selective Stimulation Systems and Signal Parameters for Medical Conditions
2011-534687	10/27/2009	5643764	11/7/2014	12/1/2016	20160346647	Granted	United States	Selective Stimulation Systems and Signal Parameters for Medical Conditions
15/231555	8/8/2016	10703541	10/23/2018	12/1/2015	20170334622	Granted	United States	Selective Stimulation Systems and Signal Parameters for Medical Conditions
15688546	8/26/2017				20150258336	Filed	United States	Selective Stimulation Systems and Signal Parameters for Medical Conditions
16/167938	10/23/2018				20150258336	Granted	United States	Selective Stimulation Systems and Signal Parameters for Medical Conditions
14/726359	5/29/2015				20100137938	Granted	Australia	Selective Stimulation Systems and Signal Parameters for Medical Conditions
12607009	10/27/2009	9061197	6/16/2015	6/3/2010	2396072	Granted	Australia	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2010204703	Granted	Australia	Stimulation Leads, Delivery Systems and Methods of Use
2010204703	1/14/2010	2396072	12/24/2015	9/24/2015	2396072	Granted	Belgium	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Switzerland	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	China P. R.	Stimulation Leads, Delivery Systems and Methods of Use
201080009093.3	1/14/2010	102387834	3/21/2012		2396072	Granted	Czechia	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Germany	Stimulation Leads, Delivery Systems and Methods of Use
13155314.6	1/14/2010	602010049771.2	4/4/2018		2641633	Granted	Germany	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	602010005279.6	3/6/2013	12/21/2011	2396072	Granted	Germany	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Denmark	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Estonia	Stimulation Leads, Delivery Systems and Methods of Use
13155314.6	1/14/2010	2641633	4/4/2018	9/25/2013	2641633	Granted	European Patent Convention	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	European Patent Convention	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Spain	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Finland	Stimulation Leads, Delivery Systems and Methods of Use
13155314.6	1/14/2010	2641633	4/4/2018		2641633	Granted	France	Stimulation Leads, Delivery Systems and Methods of Use
13155314.6	1/14/2010	2641633	4/4/2018		2641633	Granted	France	Stimulation Leads, Delivery Systems and Methods of Use
13155314.6	1/14/2010	2641633	4/4/2018		2641633	Granted	Great Britain	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Great Britain	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Ireland	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	502013902157939	3/6/2013	12/21/2011	2396072	Granted	Italy	Stimulation Leads, Delivery Systems and Methods of Use
2011-546330	1/14/2010	5735924	4/24/2015	7/6/2012	2012-515060	Granted	Japan	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Lithuania	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Lavina	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Netherlands	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Norway	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Poland	Stimulation Leads, Delivery Systems and Methods of Use
10701956.4	1/14/2010	2396072	3/6/2013	12/21/2011	2396072	Granted	Sweden	Stimulation Leads, Delivery Systems and Methods of Use
2010229885	3/24/2010	2010229885	12/17/2015	9/17/2015	2010229885	Granted	Australia	Pain Management with Stimulation Subthreshold to Paresthesia
10736772.9	3/24/2010		2/12/2012		2411091	Filed	European Patent Convention	Pain Management with Stimulation Subthreshold to Paresthesia

Application Number	Application Date	Patent Number	Grant Date	Publication Date	Publication Number	Status	Country	Title
2015-079445	3/24/2010	6018246	11/2/2016	9/17/2015	2015-164532	Granted	Japan	Pain Management With Stimulation Subthreshold To Paresthesia
14615281	2/5/2015	9468762	10/18/2016	6/4/2015	20150151126	Granted	United States	Pain Management with Stimulation Subthreshold to Paresthesia
3/24/2010	2/19/2010	8380318	9/30/2010	9/30/2010	20100249875	Granted	United States	Pain Management with Stimulation Subthreshold to Paresthesia
2010248802	5/14/2010	2010248802	5/18/2017	11/19/2010	2010248802	Granted	Australia	Methods, Systems and Devices for Neuromodulating Spinal Anatomy
201080031975.0	5/14/2010	102497823	5/11/2016	6/13/2012	2497823	Granted	China P. R.	Methods, Systems and Devices for Neuromodulating Spinal Anatomy
10775825.6	5/14/2010	2429407	10/17/2018		2429407	Granted	Germany	Methods Systems And Devices For Neuromodulating Spinal Anatomy
10775825.6	5/14/2010	2429407	10/17/2018		2429407	Granted	European Patent Convention	Methods Systems And Devices For Neuromodulating Spinal Anatomy
10775825.6	5/14/2010	2429407	10/17/2018		2429407	Granted	France	Methods Systems And Devices For Neuromodulating Spinal Anatomy
10775825.6	5/14/2010	2429407	10/17/2018		2429407	Granted	Great Britain	Methods Systems And Devices For Neuromodulating Spinal Anatomy
2015-043882	5/14/2010	5922817	4/22/2016	5/28/2015	2015-097964	Granted	Japan	Methods, Systems and Devices for Neuromodulating Spinal Anatomy
2012-511051	5/14/2010	5711221	3/13/2015	11/1/2012	2012-526838	Granted	Japan	Methods, Systems and Devices for Neuromodulating Spinal Anatomy
2012-511051	5/14/2010	9259589	2/16/2016	11/19/2010	20100292789	Granted	United States	Methods, Systems and Devices for Neuromodulating Spinal Anatomy
2017245268	10/9/2017	2568904	10/2/2019		2568904	Filed	Australia	Methods Systems And Devices For Reducing Migration
11781154.7	5/10/2011	201180031371.0	11/16/2019	5/11/2013	2568904	Granted	Belgium	Methods Systems And Devices For Reducing Migration
201180031371.0	5/10/2011	201180031371.0	10/2/2019		2568904	Granted	China P. R.	Methods Systems And Devices For Reducing Migration
11781154.7	5/10/2011	802011062469.5	10/2/2019		2568904	Granted	Germany	Methods Systems And Devices For Reducing Migration
11781154.7	5/10/2011	2568904	10/2/2019	3/20/2013	2568904	Granted	European Patent Convention	Methods Systems And Devices For Reducing Migration
11781154.7	5/10/2011	2568904	10/2/2019		2568904	Granted	France	Methods Systems And Devices For Reducing Migration
11781154.7	5/10/2011	2568904	10/2/2019		2568904	Granted	Great Britain	Methods Systems And Devices For Reducing Migration
9733DELNP/2012	5/10/2011					Filed	India	Methods Systems And Devices For Reducing Migration
2013-510247	5/10/2011	6231384	9/28/2017	6/24/2013	2013-526346	Granted	Japan	Methods Systems And Devices For Reducing Migration
11781154.7	5/10/2011	2568904	10/2/2019		2568904	Granted	Netherlands	Methods Systems And Devices For Reducing Migration
15/178012	6/9/2016	10456576	10/29/2019	9/29/2016	20160279408	Granted	United States	Methods Systems And Devices For Reducing Migration
16/578389	9/23/2018					Filed	United States	Methods Systems And Devices For Reducing Migration
2012212150	2/2/2012	2012212150	12/29/2016	9/29/2016	2012212150	Granted	Australia	Devices, Systems and Methods for the Targeted Treatment of Movement Disorders
12742084.2	2/2/2012	2670478	7/27/2016		2670478	Granted	Switzerland	Devices, Systems and Methods for the Targeted Treatment of Movement Disorders
12742084.2	2/2/2012	602012021008.0	7/27/2016		2670478	Granted	Germany	Devices, Systems and Methods for the Targeted Treatment of Movement Disorders
12742084.2	2/2/2012	2670478	7/27/2016		2670478	Granted	European Patent Convention	Devices, Systems and Methods for the Targeted Treatment of Movement Disorders
12742084.2	2/2/2012	2670478	7/27/2016		2670478	Granted	Great Britain	Devices, Systems and Methods for the Targeted Treatment of Movement Disorders
12742084.2	2/2/2012	2670478	7/27/2016		2670478	Granted	France	Devices, Systems and Methods for the Targeted Treatment of Movement Disorders
12742084.2	2/2/2012	2670478	7/27/2016		2670478	Granted	Ireland	Devices, Systems and Methods for the Targeted Treatment of Movement Disorders
6810DELNP/2013	2/2/2012	2670478	7/27/2016		2670478	Filed	India	Devices, Systems and Methods for the Targeted Treatment of Movement Disorders
12742084.2	2/2/2012	2670478	7/27/2016		2670478	Granted	Italy	Devices, Systems and Methods for the Targeted Treatment of Movement Disorders
13565163	2/2/2012	9327110	5/3/2016	6/21/2012	20120158094	Granted	United States	Selective Stimulation to Modulate the Sympathetic Nervous System
14956740	11/30/2015	9468633	11/6/2016	3/24/2016	20160062258	Granted	United States	Selective Stimulation to Modulate the Sympathetic Nervous System
15/681592	1/3/2018	10232180	3/19/2019	5/10/2018	20180126186	Granted	United States	Selective Stimulation To Modulate The Sympathetic Nervous System
16/568664	3/18/2019					Filed	United States	Selective Stimulation To Modulate The Sympathetic Nervous System
14739545.5	3/7/2014	2928385	2/14/2018	1/13/2016	2964103	Filed	European Patent Convention	Articulate Introducer Sheath
13860532.4	12/5/2013	9510818	12/6/2016	10/14/2015	2928385	Granted	European Patent Convention	Twist-Grip Anchors And Methods Of Use
13775611.2	4/9/2013	602013038941.1	6/13/2018	6/5/2014	20140155936	Granted	United States	Twist Grip Anchors and Methods of Use
13775611.2	4/9/2013	2836271	6/13/2018		2836271	Granted	Germany	Devices Systems And Methods For Modulation Of The Nervous System
13775611.2	4/9/2013	2836271	6/13/2018	2/18/2015	2836271	Granted	European Patent Convention	Devices, Systems and Methods for Modulation of The Nervous System
13775611.2	4/9/2013	2836271	6/13/2018		2836271	Granted	France	Devices Systems And Methods For Modulation Of The Nervous System
13775611.2	4/9/2013	2836271	6/13/2018		2836271	Granted	Great Britain	Devices Systems And Methods For Modulation Of The Nervous System