

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5111370

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SEAN P. SKUBITZ	07/16/2018
DANIEL C. OSTER	07/11/2018
JACOB SILVERBERG	07/16/2018
STEPHEN L. BOLEA	07/12/2018
JAYESH R. PATEL	07/16/2018
RECEIVING PARTY DATA	
Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY NE
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432-9924
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16039811
CORRESPONDENCE DATA	
Fax Number:	(651)735-1102
<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:	6517351100
Email:	pairedocketing@ssiiplaw.com
Correspondent Name:	SHUMAKER & SIEFFERT P. A.
Address Line 1:	1625 RADIO DRIVE
Address Line 2:	SUITE 100
Address Line 4:	WOODBURY, MINNESOTA 55125
ATTORNEY DOCKET NUMBER:	1123-341US02/C015280.USU4
NAME OF SUBMITTER:	KAREN SORENSEN
SIGNATURE:	/Karen Sorensen/
DATE SIGNED:	08/27/2018
Total Attachments: 30	

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ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

MEDICAL LEAD WITH SEGMENTED ELECTRODES

- for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
- for which an application for a United States Patent identified as U.S. Patent Application No. 16/030,334; was filed on July 9, 2018;
- for which an application for a U.S. Provisional Application No. 62/552,139; was filed on August 30, 2017;
- for which above application claims priority to U.S. Provisional Patent Application No. _____, filed on _____;
- which application is identified as PCT International Patent Application No. _____; filed _____;

Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereinafter referred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said application(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

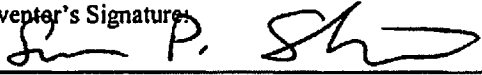
AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

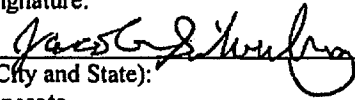
required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.


In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

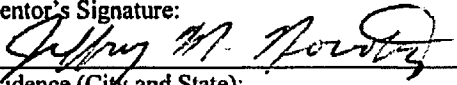
Given Name (first and middle initial [if any]): Sean P.	Family Name or Surname (last name): Skubitz	
Inventor's Signature: 	Date: 16 July 2018	
City and State: Forest Lake, Minnesota	Country: USA	Citizenship: USA

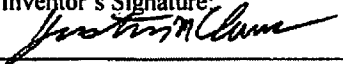
Given Name (first and middle initial [if any]): Daniel C.	Family Name or Surname (last name): Oster	
Inventor's Signature:	Date:	
Residence (City and State): Blaine, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Jacob	Family Name or Surname (last name): Silverberg	
Inventor's Signature: 	Date: 7/16/18	
Residence (City and State): Blaine, Minnesota	Country: USA	Citizenship: USA

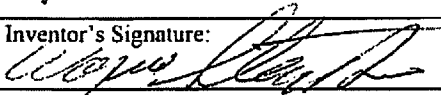
Given Name (first and middle initial [if any]): Stephen L.	Family Name or Surname (last name): Bolea	
Inventor's Signature: <i>Stephen Bolea</i>	Date: <i>12-July 2018</i>	
Residence (City and State): Watertown, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Jayesh R.	Family Name or Surname (last name): Patel	
Inventor's Signature: 	Date: 16 JUL 2018	
Residence (City and State): Maple Grove, Minnesota	Country: USA	Citizenship: IN and JP

Given Name (first and middle initial [if any]): Jeffrey M.	Family Name or Surname (last name): Novotny	
Inventor's Signature: 	Date: July 16, 2018	
Residence (City and State): Wyoming, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Justin M.	Family Name or Surname (last name): Claus	
Inventor's Signature: 	Date: 07/16/2018	
Residence (City and State): Fridley, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Robert R.	Family Name or Surname (last name): Rowe	
Inventor's Signature:	Date:	
Residence (City and State): Monticello, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Wayne M.	Family Name or Surname (last name): Starkson	
Inventor's Signature: 	Date: 7-11-18	
Residence (City and State): Mayer, Minnesota	Country: USA	Citizenship: USA



Joanne Rose Johnson 7/11/2018

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

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- for which an application for a United States Patent identified as U.S. Patent Application No. 16/030,334; was filed on **July 9, 2018**;
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NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said application(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

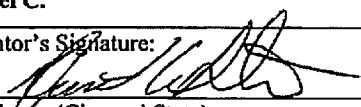
AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

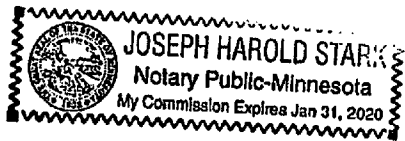
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I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle initial [if any]): Sean P.	Family Name or Surname (last name): Skubitz	
Inventor's Signature:	Date:	
City and State: Forest Lake, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Daniel C.		Family Name or Surname (last name): Oster	
Inventor's Signature: 		Date: 11 Jul 2018	
Residence (City and State): Blaine, Minnesota		Country: USA	Citizenship: USA



Joseph Harold Starke July 11, 2018

Given Name (first and middle initial [if any]): Jacob	Family Name or Surname (last name): Silverberg	
Inventor's Signature:	Date:	
Residence (City and State): Blaine, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Stephen L.	Family Name or Surname (last name): Bolea	
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Inventor's Signature:	Date:	
Residence (City and State): Blaine, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Jacob	Family Name or Surname (last name): Silverberg	
Inventor's Signature:	Date:	
Residence (City and State): Blaine, Minnesota	Country: USA	Citizenship: USA

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Inventor's Signature: <i>Bob Rowe</i>	Date: July 11, 2018	
Residence (City and State): Monticello, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Wayne M.	Family Name or Surname (last name): Starkson	
Inventor's Signature:	Date:	
Residence (City and State): Mayer, Minnesota	Country: USA	Citizenship: USA