

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5844917

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHANTANU SARKAR	01/25/2018
DANIEL L. HANSEN	01/25/2018
GRANT A. NEITZELL	02/05/2018
JERRY D. REILAND	01/25/2018
RYAN WYSZYNSKI	01/25/2018
RECEIVING PARTY DATA	
Name:	MEDTRONIC, INC. (CVG)
Street Address:	8200 CORAL SEA STREET NE.
Internal Address:	MS: MVC22
City:	MOUNDS VIEW
State/Country:	MINNESOTA
Postal Code:	55112
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16700087
CORRESPONDENCE DATA	
Fax Number:	(651)367-0471
<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:	763-526-0929
Email:	madonna.schroeder@medtronic.com
Correspondent Name:	MICHAEL J. OSTROM
Address Line 1:	8200 CORAL SEA STREET NE.
Address Line 2:	MS: MVC22
Address Line 4:	MOUNDS VIEW, MINNESOTA 55112
ATTORNEY DOCKET NUMBER:	C00002902US01CON
NAME OF SUBMITTER:	MADONNA M. SCHROEDER
SIGNATURE:	/Madonna M. Schroeder/
DATE SIGNED:	12/02/2019

Total Attachments: 12

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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

METHOD AND APPARATUS FOR ATRIAL ARRHYTHMIA EPISODE DETECTION

- ☐ 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. 15/551,924; was filed on August 18, 2017.
- ☐ for which an application for a U.S. Provisional Application No.; was filed on;
- ☒ for which above application claims priority to U.S. Provisional Patent Application No. 62/117,785; filed on February 18, 2015;
- ☒ for which above application claims priority to U.S. Patent Application No. 14/695,111; filed on April 24, 2015;
- ☒ for which application is identified as PCT International Patent Application No. PCT/US2016/018408; filed February 18, 2016;


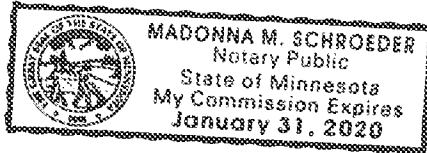
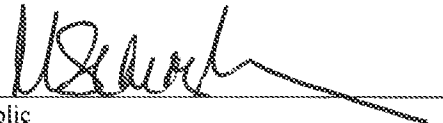
Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and having a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereinafter referred to as "Corporation," is desirous of acquiring the entire right, title 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;

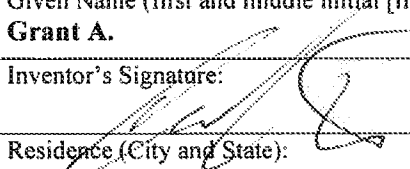
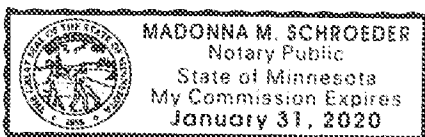

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest 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, 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;

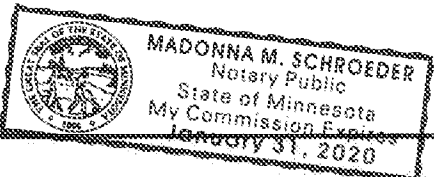
AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above 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

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.

Given Name (first and middle initial [if any]): Shantanu		Family Name or Surname (last name): SARKAR	
Inventor's Signature: 		Date: JAN-25-2018	
City and State: Roseville, Minnesota		Country: US	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>25th</u> day of <u>January</u> , <u>2018</u> before me personally appeared the above-named Shantanu SARKAR, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)			 Notary Public

Given Name (first and middle initial [if any]): Grant A.		Family Name or Surname (last name): NEITZELL	
Inventor's Signature: 		Date: 2-5-18	
Residence (City and State): Plymouth, Minnesota		Country: US	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>5th</u> day of <u>February</u> , <u>2018</u> , before me personally appeared the above-named Grant A. NEITZELL, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)			 Notary Public

Given Name (first and middle initial [if any]): Jerry D.		Family Name or Surname (last name): REILAND	
Inventor's Signature: <i>Jerry Reiland</i>		Date: <i>Jan - 25 - 2018</i>	
Residence (City and State): Coon Rapids, Minnesota		Country: US	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <i>25th</i> day of <i>January</i> , <i>2018</i> (2018) <i>MS</i> , before me personally appeared the above-named Jerry D. REILAND, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal) 		<i>MS</i> Notary Public	

ASSIGNMENT OF APPLICATION(S)

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

METHOD AND APPARATUS FOR ATRIAL ARRHYTHMIA EPISODE DETECTION

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- ☐ for which an application for a U.S. Provisional Application No.; was filed on;
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- ☒ for which application is identified as PCT International Patent Application No. PCT/US2016/018408; filed February 18, 2016;

Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and having a principle 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, 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

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.

Given Name (first and middle initial [if any]): Shantanu		Family Name or Surname (last name): SARKAR	
Inventor's Signature:		Date:	
City and State: Roseville, Minnesota		Country: US	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)			
On this _____ day of _____, _____, before me personally appeared the above-named Shantanu SARKAR, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		_____ Notary Public	

Given Name (first and middle initial [if any]): Daniel L.		Family Name or Surname (last name): HANSEN	
Inventor's Signature: <i>Daniel L. Hansen</i>		Date: <i>1/25/2018</i>	
Residence (City and State): Castle Rock, Colorado		Country: US	Citizenship: US
STATE OF COLORADO)) ss. COUNTY OF <i>Douglas</i>) On this <i>25</i> day of <i>January</i> , <i>2018</i> , before me personally appeared the above-named Daniel L. HANSEN, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)	LAURI L EKBERG NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20124035142 MY COMMISSION EXPIRES 06/18/20		<i>Lauri L Ekberg</i> Notary Public

