503278161 04/24/2015

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHANTANU SARKAR	04/17/2015
DANIEL L HANSEN	04/20/2015
GRANT A NEITZELL	04/20/2015
JERRY D REILAND	04/20/2015
RYAN WYSZYNSKI	04/20/2015

RECEIVING PARTY DATA

Name: Medtronic, Inc.	
Street Address: 710 Medtronic Parkway	
Internal Address: Mail Stop LC340	
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14695111

CORRESPONDENCE DATA

Fax Number: (763)505-2530

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: (763) 526-0925

Email: susan.m.nienaber@medtronic.com

Correspondent Name: MICHAEL C. SOLDNER
Address Line 1: 710 MEDTRONIC PARKWAY

Address Line 2: MAIL STOP LC340

Address Line 4: MINNEAPOLIS, MINNESOTA 55432

ATTORNEY DOCKET NUMBER: C00002902.USU5

NAME OF SUBMITTER: SUSAN M.NIENABER

SIGNATURE: /Susan M. Nienaber/

DATE SIGNED: 04/24/2015

PATENT 503278161 REEL: 035486 FRAME: 0209

Total Attachments: 4

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PATENT

REEL: 035486 FRAME: 0210

Attorney Docket No.: C00002902.USU5

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
\boxtimes	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. XX/XXX,XXX; was filed on XXXX;
	for which an application for a U.S. Provisional Application No.; was filed on;
\boxtimes	for which above application claims priority to U.S. Provisional Patent Application No. 62/117,785; filed on February 18, 2015;
	which application is identified as PCT International Patent Application No.; filed;

Whereas, <u>Medtronic, Inc.</u>, a corporation organized and existing under the laws of the State of Minnesota and having a principle place of business at <u>710 Medtronic Parkway N.E.</u>, <u>Minneapolis</u>, <u>Minnesota 55432-5604</u>, 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 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.

Page 1 of 3 Attorney Docket No.: C00002902.USU5

Assignment

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]): Shantanu	Family N Sarkar	Name or Surname (last name): r			
Inventor's Signature:		Date: の4/17/			
City and State: Roseville, Minnesota		Country: USA		Citizenship: US	
STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this day of and who executed the foregoing instrument, as sai (Seal) SUSAN M. NIENABER Notary Public-Minnesota My Commission Expires Jan 31, 2020	d person's	before me free act and deed, on the Notary Public	e day ar	``	
	,		*************	***************************************	
Given Name (first and middle initial [if any]): Daniel L.	Family N Hansen	ame or Surname (last n	iame):		
Inventor's Signature:		Date:			
Residence (City and State): Castle Rock, Colorado		Country: USA		Citizenship: US	
STATE OF COLORADO)) ss. COUNTY OF) On this day of,, before me personally appeared the above-named , and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.					
(Seal)		Notary Public			

Attorney Docket No.: C00002902.USU5

REEL: 035486 FRAME: 0212

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 mitial [if any]): Shantanu	Family N Sarkar	Name or Sumame (tast name):			
Inventor's Signature:	ventor's Signature:				
City and State: Roseville, Minnesota		Country: USA	Citizenship: US		
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this day of and who executed the foregoing instrument, as sa	tid person's	, before free act and deed, or	ome personally appeared the above-named , the day and year aforesaid.		
(Seal)		Notary Public			
Cine Name (fort and middle (citiel (if any))	Encolle N	lama ar Summera An	er cana)		
Given Name (first and middle initial [if any]): Family Name or Sumame (last name): Hansen					
Inventor's Signature: Daniel X. Nenzen		Date: 4/20/24	215		
Residence (City and State): Castle Rock, Colorado		Country: USA	Citizenship: US		
and who executed the foregoing instrument, as so	aid person's	free act and deed, o			
(Seal) KATHLEEN D. CHRISTEN NOTARY PUBLIC STATE OF COLORADO	SEN	Kahloom I Notary Public My Conn	21/10/15/07800 15:500 Expres 05/11/2015		

Given Name (first and middle initial [if any]): Grant A.	Family N Neitzell	ame or Surname (la	ast name):		***************************************
Inventor's Signature:		Date:	20-15	marks.	•••••••••••••••••••••••••••••••••••••••
Residence (City and State):	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	//	- C**:	
Fridley, Minnesota		Country: USA		Citizenship: US	
STATE OF MINNESOTA)					
) ss. COUNTY OF RAMSEY)					
On this day of AVI		DOIS hefor	re me nercon	ally anneared the above nor	nad
and who executed the foregoing instrument, as sa	id person's	free act and deed, o	on the day an	d year aforesaid.	nca ,
BAAAAAAAAAAAAAAAAAAAAAAAAAAA 2 AMBA OHOAN N NICHADO >	<		1		
SUSAN M. NIENABER § (Seal) (Seal) Notary Public-Minnesota		Duller	1 /	enaber	
*		Notary Public			
<u></u>	·····	***************************************	*************************		***********************
Given Name (first and middle initial [if any]): Jerry D.	Family N Reiland	ame or Surname (la	ast name):		
Inventor's Signature:		Date:	atricus.		***************************************
Residence (City and State):		4/20/20 Country:	45	- F15.1	************
Coon Rapids, Minnesota		USA		Citizenship: US	
STATE OF MINNESOTA)					
) ss. COUNTY OF RAMSEY)					
On this Off day of		⊃015, befor	re me person	ally appeared the above-nar	ned .
and who executed the foregoing instrument, as sa	id person's	free act and deed, o	on the day an	d year aforesaid.	,
SUSAN M. NIENABER	pomen		A 3		
(Seal)		MOUNT	1	eraber	
My Commission Expires Jan 31, 2020 &		Notary Public			
francisco de la constantina della constantina de		***************************************	****************	***************************************	31131131313131
Given Name (first apd middle initial [if any]):	Family N	ame or Surname (I	ast name):		
Ryan	Wyszyn				
Inventor's Signature:		Date: od/2	0/2019	ALTONIA .	
Residence (City and State):		Country:	700/5	Citizenship:	
Oak Grove, Minnesota		USA		US	
STATE OF MINNESOTA)		.1			
) SS.					
COUNTY OF RAMSEY) On this day of		2015 hefor	re me nercon	ally appeared the above-nar	ned
and who executed the foregoing instrument, as sa	id person's				u ,
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		Notary Public			

Assignment

Page 3 of 3 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

Attorney Docket No.: C00002902.USU5

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