502671845 02/07/2014

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2718452

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PENG CONG	02/07/2014
TIMOTHY J DENISON	02/07/2014
FORREST CM PAPE	02/07/2014
WESLEY A SANTA	02/07/2014
JALPA S SHAH	02/07/2014
SCOTT R STANSLASKI	02/07/2014

RECEIVING PARTY DATA

Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY N.E.
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432-5604

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14175491

CORRESPONDENCE DATA

 Fax Number:
 (770)643-8913

 Phone:
 770-643-8912

Email: tina@witherskeys.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: MEDTRONIC - WK Address Line 1: P.O. BOX 71355

Address Line 4: MARIETTA, GEORGIA 30007-1355

ATTORNEY DOCKET NUMBER:	C00004334.USU1
NAME OF SUBMITTER:	JERAMIE J. KEYS

502671845 REEL: 032174 FRAME: 0202

Signature: /Jeramie J. Keys/	
Date: 02/07/2014	
Total Attachments: 7 source=C00004334-USU1_ASSIGNMENT# source=C00004334-USU1_ASSIGNMENT# source=C00004334-USU1_ASSIGNMENT# source=C00004334-USU1_ASSIGNMENT# source=C00004334-USU1_ASSIGNMENT# source=C00004334-USU1_ASSIGNMENT# source=C00004334-USU1_ASSIGNMENT#	tpage2.tif tpage3.tif tpage4.tif tpage4.tif tpage5.tif tpage5.tif tpage6.tif

PATENT REEL: 032174 FRAME: 0203

Attorney Docket No.: C00004334.USU1

ASSIGNMENT OF APPLICATION(S)

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

	Devices and Methods for Sensing Physiological Signals During Stimulation Therapy
\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
	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, filed on;
	which application is identified as PCT International Patent Application No; filed;

Whereas, <u>Medtronic</u>, <u>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.

Assignment Page 1 of 7 Attorney Docket No.: C00004334.USU1

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]): Peng	Family Name or Surname (last name): Cong			
Inventor's Signature:	Date:	02/07/	12014	
City and State:	Coun	try:	Citizenship:	
Plymouth, Minnesota	USA		CN	
STATE OF MINNESOTA) ss. COUNTY OF ANOKA) On this day of Eoglasy	, 2014, before xx	personally appe	ared the above-named P	eng Cong, and
who executed the foregoing instrument, as said p	erson's free act and	deed, on the day	and year aforesaid.	
(Seal) (Seal)	Notas	y Mablic	× 741	

Given Name (first and middle initial [if any]): Timothy J.	Family Name or Surname (last) Denison	name):
Inventor's Signature:	Date: 7 Fe L	2014
Residence (City and State):	Country:	Citizenship:
Minneapolis, Minnesota	USA	US
COUNTY OF ANOKA On this the day of February Denison, and who executed the foregoing inst		
(Seal) KARLA K. WEIS NOTARY PUBLIC - MINNESO MY COMMISSION EXPIRE IANI IARY 31 2015	JTA SQUE	The day and year aroresand.

Given Name (first and middle initial [if any]): Forrest C.M.	Family Name or Surname (last name): Pape		
Inventor's Signature:	Date: Feb 7	, 2014	
Residence (City and State):	Country:	Citizenship:	
New Brighton, Minneapolis	USA	US	
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA) On this May of Hornor Interpreted the foregoing instrument	, 2014, before me personally appear	red the above-named Forrest C.M.	
1 apc, and who executed the lovegoing manament	as said persons need det and dead,	in the day tild year dividedia.	
(Seal) KARLA K. WEIS NOTARY PUBLIC - MINNESOT MY COMMISSION EXPIRES JANUARY 31, 2015	Notary Public	5.7m	

Given Name (first and middle initial [if any]): Wesley A.	Family Name or Surname (last name): Santa		
Inventor's Signature: Wally Band	Date: 8/7	12014	
Residence (City and State):	Country:	Citizenship:	
Andover, Minneapolis	USA	US	
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA On this			
(Seal) KARLA K. WEIS NOTARY PUBLIC - MINNESOTA MY COMMISSION EXPIRES JANUARY 31, 2015	Notary Public	3 mm	

Given Name (first and middle initial [if any]): Jalpa S.	iddle initial [if any]): Family Name or Surname (last name): Shah		
Inventor's Signature:	Date:	171	
Residence (City and State): Maple Grove, Minneapolis	02/07/20 Country: USA	Citizenship: IN	
STATE OF MINNESOTA) ss. COUNTY OF ANOKA) On this 7 day of FOULD 14 who executed the forest the same to the sam	2014, before me personally appears	ed the above-named Jalpa S. Shah, and and year aforesaid.	
(Seal) WY WOMEN RESON WHISOT Notary Public			

Given Name (Scott R.	first and middle initial [if any]):	1	Family Name or Surname (last name): Stanslaski			
Inventor's Signature:			Date: 2/7/2014			
Residence (City and State):			Country:	Ci	tizenship:	
Shoreview, Minneapolis			USA	US	S	
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA) On this day of Horuman, 2014, before me personally appeared the above-named Scott R. Stanslaski, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.						
(Seal)	KARLA K. WEIS NOTARY PUBLIC - MINNESOT MY COMMISSION EXPIRES JANUARY 31, 2015	A	Notary Pyblic		7W7_	

Assignment

Page 7 of 7 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

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RECORDED: 02/07/2014