06/09/2016 503864225

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3910874

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SCOTT M. HANSON	04/28/2014
ADAM J. RIVARD	04/28/2014
CHAD C. WHITERABBIT	12/02/2014
JOSEPH P. RICCI	08/20/2014
THOMAS I. MILLER	08/20/2014
EVAN M. GUSTAFSON	06/08/2016
BRUCE BEHYMER	08/05/2014
JEFFREY R. DIXON	08/21/2014
CHARLES T. BOMBECK	08/19/2014
DARRIN E. DICKERSON	11/25/2014
DOUGLAS C. CERNY	11/25/2014
RAYMOND F. MCMULLEN	08/25/2014
PHILLIP C. FALKNER	08/20/2014

RECEIVING PARTY DATA

Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY NE
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14179716

CORRESPONDENCE DATA

(770)643-8913 Fax Number:

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Correspondent Name: JERAMIE J. KEYS Address Line 1: P.O. BOX 2049

PATENT

REEL: 038861 FRAME: 0604 503864225

Address Line 4: MCD	ONOUGH, GEORGIA 30253
ATTORNEY DOCKET NUMBER:	C00004339.USU2
NAME OF SUBMITTER:	JERAMIE J. KEYS
SIGNATURE:	/Jeramie J. Keys/
DATE SIGNED:	06/09/2016
Total Attachments: 14	
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PATENT REEL: 038861 FRAME: 0605

Attorney Docket No.: C00004339.USU2

ASSIGNMENT OF APPLICATION(S)

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

	Tools and Methods for Implantation of Implantable Medical Lead Extensions
	for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
\boxtimes	for which an application for a United States Patent identified as U.S. Patent Application No. 14/179,716; was filed on February 13, 2014;
\boxtimes	for which an application for a U.S. Provisional Application No. 61/781,653; was filed on March 14, 2013;
	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, 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 14 Attorney Docket No.: C00004339.USU2

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]): Scott M.	Family Name or Surname (last Hanson	name):
Inventor's Signature:	Date: 04/	28/2014
City and State:	Country:	Citizenship:
Savage, MN	USA	US
STATE OF MINNESOTA) ss. COUNTY OF ANOKA On this 25th day of 400000000000000000000000000000000000	_, 2014, before me personally appaid person's free act and deed, on	ne day and year aloresaid.

Given Name (first and middle initial [if any]): Adam J.	Family Name or Surname (last Rivard	name):	
Inventor's Signature:	Date: 4/28/	, 2 <i>01</i> 4	
Residence (City and State):	Country:	Citizenship:	
Blaine, MN	USA	US	
STATE OF MINNESOTA) ss. COUNTY OF ANOKA) On this 28 day of 4 day and who executed the foregoing instrument, as so THERESA C. TO Sometimes of Earlies and 31, 2015 \$	aid person's free act and deed, on t		i,

Given Name (first and middle initial [if any]): Chad C.	Family Name or Surname (last Whiterabbit	name):
Inventor's Signature:	Date:	Z14
Residence (City and State):	Country:	Citizenship:
Mahtomedi, MN	USA	US
STATE OF MINNESOTA) or ss. COUNTY OF ANOKA) On this ON Day of Occorrect, 2 and who executed the foregoing instrument, as sa	014, before me personally appeare	ed the above-named Chad C. Whiterabbit, he day and year aforesaid.
(Seal) KARLA K. WEIS Notary Public State of Minnesote My Commission Expires January 31, 2020	Notary Public	

Given Name (first and middle initial [if any]): Joseph P.	Family Name or Su Ricci	ırname (last nan	ıe):	
Inventor's Signature	Date:	8-20-	14	
Residence (City and State):	Country USA	7:	Citizenship:	
Ham Lake, MN	USA		US	
STATE OF MINNESOTA) ss. COUNTY OF ANOKA) On this do day of audus, 20 who executed the foregoing instrument, as said p	014, before me person erson's free act and de	nally appeared theed, on the day ε	ne above-named Joseph P. and year aforesaid.	Ricei, and
(See) Notary Public Minnesots	<u>Jul</u> Notary I	<u>USα C-</u> Public	<u>ان</u>	

Given Name (first and middle initial [if any]): Thomas I.	Family Name or Surname (last Miller	name):	
Inventor's Signature:	Date: 209И	162014	
Residence (City and State): Blaine, MN	Country: USA	Citizenship: US	
STATE OF MINNESOTA) SS. COUNTY OF ANOKA) On this 20th day of August and who executed the foregoing instrument, as so THERESA C. TO Notery Public Minnesota My Commission States Jan 31, 2016	, 2014, before me personally appe aid person's free act and deed, on <u>Jallia</u> C Notary Public	the day and year aforesaid.	

Given Nan Evan M.	ne (first and middle initial [if any]):	Family Name or Surname (Gustafson	last name):	
Inventor's	Signature: DH	Date: 6/8	/2016	
	(City and State): alley_AIN Sentle, UA	Country: USA	Citizenship: US	
On thi	CAMENAS AND SS. OF AHERA AND SS. Fadas as Thanks 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	herson's free internally appears	ed the above-named Evan M. Gustafson he day and year aforesaid.	, and
(Sea)	Notary Public State of Washingto My Commission Exp January 19, 2011	oires Normy Public	Jakk 1917	<u></u>

Witness Printed Name			Witness F	rinted Name		
Witness Signature			Witness S	ignature		
Wisa and Cinnat			3X/2 C		8:	·····
Residence (City and State) Grant, MN			5 AUG Country: US	204	Citizenship: US	8.
Inventor's Signature:	i		Date: }			
Given Name (first and middle initial [if an Bruce	[if any]): Family Name or Surname (last name): Behymer					

Jeffrey R.	Pamily Name or Surname (last name Dixon	e):
Inventor's Signature	Date: 8/2///	4
Residence (City and State):	Country:	Citizenship:
Andover, MN	USA	US
) ss. COUNTY OF ANOKA On this <u>21^{S1} day of August</u> , 2014, who executed the foregoing instrument, as said p	, before me personally appeared the abo erson's free act and deed, on the day an	ove-named Jeffrey R. Dixon, and nd year aforesaid.
(Seal) THERESA C. TO Seal Notary Public-Minnesota	<u>Jheresa</u> C. Je Notary Public	<u> </u>
8 1940 1444 1444 1444 1444 1444 1444 1444		

Given Name (first and middle initial [if any]): Charles T.	Family Name or Surname (last name): Bombeck		
Inventor's Signature:	Date:	9/2014	
Residence (City and State)	Country:	Citizenship:	
Lino Lakes, MN	USA	US	
STATE OF MINNESOTA) SS. COUNTY OF ANOKA) On this day of	, before me personally appeared terson's free act and deed, on the control of the		

Given Name (first and middle initial [if any]): Darrin E.	Family Name or Surname (last Dickerson	name):
Inventor's Signature Dovin E. Dalyn	Date:	74
Residence (City and State):	Country:	Citizenship:
Blaine, MN	USA	US
STATE OF MINNESOTA) ss. COUNTY OF ANOKA) On this 25 day of wovenber, 20 who executed the foregoing instrument, as sai	114, before me personally appeared to d person's free act and deed, on the d	ne above-named Darrin E. Dickerson, and lay and year aforesaid.
(Seal) THERESA C. TO Notary Public Alimberous	S. Marrie M.	e. Io

Given Name (first and middle initial [if any]): Douglas C.	Family Name or Surname (last name): Cerny			
Inventor's Signature:	Date: (1-/25/	Date: 11-/25/2014		
Residence (City and State): Minneapolis, MN	Country: USA	Citizenship: US		
STATE OF MINNESOTA) on this 25th day of 400000000000000000000000000000000000	14, before me personally appeared the dependency on the day	above-named Douglas C. Cerny, and yand year aforesaid.		
(Seal) THERESA C. TO NESSEY FORD-INSTRUMENTS	Notary Public	<u>20</u>		

Given Name (first and middle initial [if any]): Raymond F.	Family Name or Surname (last name): McMullen			
Inventor's Signature:	1	Date: 25 A	140ust 2014	
Residence (City and State):		Country:	Citizenship:	
Shorewood, MN		USA	US	
On this 25th day of 2014, before me personally appeared the above-named Raymond F. McMullen, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal) THERESA C. TO Notary Public Minnesota		Jhulsa Notary Public	2 C. W	

Given Name (first and middle initial [if any]): Family Name or Surname (last name):				
Phillip C. Falkner				
Inventor's Signature:	Date:	/		
	/			
Residence (City and State):	Country:	Citizenship:		
Minneapolis, MN	USA	US		
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA) On this 20 day of 4 day of				

Assignment

Page 14 of 15 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432 Attorney Docket No.: C00004339,USU2