PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Marshall J. Rasmussen	03/07/2013
Forrest C.M. Pape	03/06/2013
Lonny V. Cabelka	03/03/2013

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:	13795471

CORRESPONDENCE DATA

Fax Number: 6513670471

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

Phone: 763-526-0925

Email: madonna.schroeder@medtronic.com

Correspondent Name: Evans M. Mburu

Address Line 1: 710 Medtronic Parkway NE.

Address Line 2: Mailstop MVC22

Address Line 4: Minneapolis, MINNESOTA 55432

ATTORNEY DOCKET NUMBER:	C00003465.USU1
NAME OF SUBMITTER:	Evans M. Mburu

Total Attachments: 9

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PATENT REEL: 029973 FRAME: 0262 13795471

CH \$40,00

502263369



PATENT REEL: 029973 FRAME: 0263

Attorney Docket No.: C00003465.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

SUBTHRESHOLD LEAD IMPEDANCE MEASUREMENT FOR SUBCUTANEOUS DEVICE

X	for which an application for a United States Patent or a U.S. Provisional Application is being contemporaneously herewith;	filed	
	for which an application for a United States Patent identified as U.S. Patent Application No. ;	; was fi	iled on
	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>, Inc., 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

Assignment

Attorney Docket No.: C00003465.USU1

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 iny/o		***************************************	101105104
Given Name (first and middle initial [if any]): Marshall J.	nitial [if any]): Family Name or Surname (last name): Rasmussen		
	# 20 111 12 23		
Inventor's Signature: Www. 4. Augus	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Date: 3-7-13	
City and State: \\ Mesa, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA) ss. COUNTY OF Markof a) On this 7th day of 7th day of and who executed the foregoing instrument, as said	ch d person's		nally appeared the above-named,
(Seal) Strict A WAE SELL Notary Public - State of Arizone MASICOPA COUNTY My Commission Expenss November 39, 2018	Section Control	Hotary-Public	Mae Bell
	, europe	***************************************	000000000000000000000000000000000000000
Given Name (first and middle initial [if any]): Forrest C.M.	Family N Pape	ame or Surname (last name):	
Inventor's Signature:		Date:	
Residence (City and State): New Brighton, Minnesota		Country: US	Citizenship: US
STATE OF MINNESOTA) on this day of and who executed the foregoing instrument, as said	i nerconic i		nally appeared the above-named ,
and the vicesia are releging histament, as sar	e freezent g i	aco nos ana acea, va ane uay a	aw you acrossed.
(Seal)		Notary Public	

REEL: 029973 FRAME: 0265

Given Name (first and middle initial [if any]): Lonny V.	Family Name or Surname (last name): Cabelka	
Inventor's Signature:	Date:	
Residence (City and State): San Clemente, California	Country: US	Citizenship: US
and who executed the foregoing instrument, as sa	,, before r uid person's free act and deed, on t	me personally appeared the above-named , the day and year aforesaid.
(Seal)	Notary Public	

Attorney Docket No.: C00003465.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

SUBTHRESHOLD LEAD IMPEDANCE MEASUREMENT FOR SUBCUTANEOUS DEVICE

✓ 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. ; was filed on ; ☐ 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>Medironic, 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 Medironic 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

Page 1 of 3 Attorney Docket No.: C00003465.USU1

Assignment

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/			
Given Name (first and middle initial [if any]):	Family Name or Surname (last name): Rasmussen		
Marshall J.	Kasmussen		
Inventor's Signature:	D	ate:	
City and State:	C	ountry:	Citizenship:
Mesa, Arizona	U	S	US
STATE OF ARIZONA)) ss. COUNTY OF)			
On this day of and who executed the foregoing instrument, as sa	aid person's free	, before act and deed, on	me personally appeared the above-named, the day and year aforesaid.
(Seal)	Ñ	otary Public	
, we have			
Charles (Control of the Labor Life on the		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4
Given Name (first and middle initial [if any]): Forrest C.M.		or Sumame (las	t name):
	Family Name	e or Surname (las	
Forrest C.M.	Family Name	e or Surname (las	t name):
Residence (City and State): New Brighton, Minnesota STATE OF MINNESOTA)	Family Name Pape D	e or Surname (las	4 6 7 20/3 Citizenship:
Residence (City and State): New Brighton, Minnesota STATE OF MINNESOTA)	Family Name Pape	e or Sumame (las	Citizenship: US me personally appeared the above-named ,

Given Name (first and middle initial [if any]): Lonny V.	Family Name or Surname (last Cabelks	name):
Inventor's Signature:	Date:	
Residence (City and State): San Clemente, California	Country: US	Citizenship: US
STATE OF CALIFORNIA)) ss. COUNTY OF On this day of and who executed the foregoing instrument, as sai (Seal)	,, before r id person's free act and deed, on t	ne personally appeared the above-named , he day and year aforesaid.
(acai)	Notary Public	

Attorney Docket No.: C00003465.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

SUBTHRESHOLD LEAD IMPEDANCE MEASUREMENT FOR SUBCUTANEOUS DEVICE

\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. ; was filed on ;
	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;
refe	Whereas, <u>Medtronic</u> , Inc., a corporation organized and existing under the laws of the State of Minnesota and ring a principle place of business at <u>710 Medtronic Parkway N.E.</u> , <u>Minneapolis</u> , <u>Minnesota 55432-5604</u> , hereinafter erred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the ited States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be
	ntad 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

Assignment

Page 1 of 3 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432 Attorney Docket No.: C00003465.USU1

Line 1

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.

Given Name (first and middle initial [if any]): Marshall J.	Family Name or Surname (last name): Rasmussen	
Inventor's Signature:	Date:	
City and State: Mesa, Arizona	Country: US	Citizenship: US
STATE OF ARIZONA) ss. COUNTY OF) On this day of and who executed the foregoing instrument, as sa	, before id person's free act and deed, on	me personally appeared the above-named the day and year aforesaid.
(Seaf)	Notary Public	
Given Name (first and middle initial [if any]): Forrest C.M.	Family Name or Surname (las	t name):
Inventor's Signature:	Date:	
Residence (City and State):	Country: US	Citizenship: US
New Brighton, Minnesota	1	

Attorney Docket No.: C00003465.USU1

Name or Surname (last name):	
Date:	3
Country: US	Citizenship: US
STATE OF CALIFORNIA) Chrisona COUNTY OF Mariespa) On this 12th day of March , 2613, 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. SHEILA MAE BELL Notary Public - State of Arizona MARICOPA COUNTY My Commission Expires November 30, 2015 Notary Public	
	Date: 3-MAR-20[Country: US , 26/3, before me person free act and deed, on the day are

Attorney Docket No.: C00003465,USU1