

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2827359

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RANDOLPH E. CRUTCHFIELD	04/22/2014
LONNY V. CABELKA	04/23/2014
MARK R. BOONE	04/22/2014
KEVIN P. KUEHN	04/21/2014
MARSHALL J. RASMUSSEN	04/22/2014
RECEIVING PARTY DATA	
Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY NE.
Internal Address:	LC340
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14260309
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 via US Mail.</i>	
Phone:	763-526-0925
Email:	madonna.schroeder@medtronic.com
Correspondent Name:	EVANS M. MBURU
Address Line 1:	710 MEDTRONIC PARKWAY NE.
Address Line 2:	MVC22
Address Line 4:	MINNEAPOLIS, MINNESOTA 55432
ATTORNEY DOCKET NUMBER:	C00006606.USU1
NAME OF SUBMITTER:	EVANS M. MBURU
SIGNATURE:	/Evans M. Mburu/
DATE SIGNED:	04/24/2014
Total Attachments: 18	

PATENT

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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

THERAPY DELIVERY METHODS AND CIRCUITS FOR AN IMPLANTABLE MEDICAL 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, 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;

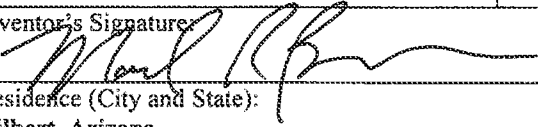
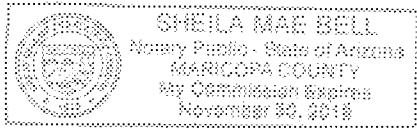
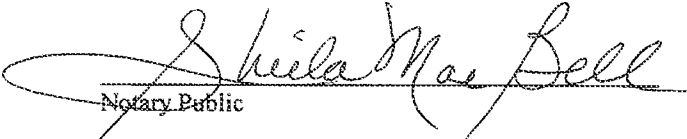
AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part 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

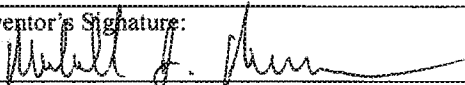

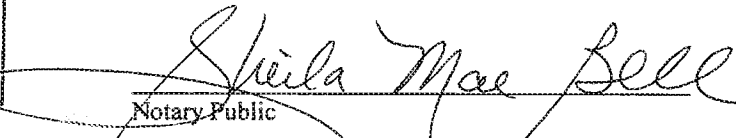
required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

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/our name(s) on the day and year set forth below.

Given Name (first and middle initial [if any]): Randolph E.		Family Name or Surname (last name): Crutchfield	
Inventor's Signature: 		Date: 22 APRIL 2014	
City and State: Scottsdale, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA) COUNTY OF <u>Maricopa</u>) ss. On this <u>22nd</u> day of <u>April</u> , <u>2014</u> , 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. <div style="display: flex; justify-content: space-between; align-items: center;"><div style="text-align: center;"> (Seal) SHEILA MAE BELL Notary Public - State of Arizona MARICOPA COUNTY My Commission Expires November 30, 2015</div><div style="text-align: center;"> Notary Public</div></div>			

Given Name (first and middle initial [if any]): Mark R.		Family Name or Surname (last name): Boone	
Inventor's Signature: 		Date: 4/22/2014	
Residence (City and State): Gilbert, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA)) ss. COUNTY OF <u>Maricopa</u> On this <u>22nd</u> day of <u>April</u> , <u>2014</u> , 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

Given Name (first and middle initial [if any]): Marshall J.		Family Name or Surname (last name): Rasmussen	
Inventor's Signature: 		Date: 4/22/2014	
Residence (City and State): Mesa, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA)) ss. COUNTY OF <u>Maricopa</u>) On this <u>22nd</u> day of <u>April</u> , <u>2014</u> , 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. <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">  (Seal) </div> <div style="text-align: center;">  Notary Public </div> </div>			

ASSIGNMENT OF APPLICATION(S)

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- ☒ for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
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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;

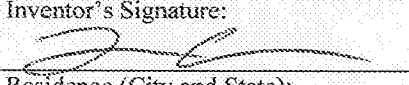
AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part 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.

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]): Randolph E.		Family Name or Surname (last name): Crutchfield	
Inventor's Signature:		Date:	
City and State: Scottsdale, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA)) 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	

Given Name (first and middle initial [if any]): Lonny V.		Family Name or Surname (last name): Cabelka	
Inventor's Signature: 		Date: 23-APR - 2014	
Residence (City and State): San Clemente, California		Country: US	Citizenship: US

ACKNOWLEDGMENT


State of California)
County of Orange


On April 23, 2014 before me, Brad Meindertsmas, Notary Public
(insert name and title of the officer)

personally appeared Lonny V. Cabelka, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ are subscribed to the within instrument and acknowledged to me that ~~he~~ ~~she~~ ~~they~~ executed the same in ~~his~~ ~~her~~ ~~their~~ authorized capacity(ies), and that by ~~his~~ ~~her~~ ~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature  (Seal)



BRAD MEINDERTSMA
Commission # 1962205
Notary Public - California
Orange County
My Comm. Expires Dec 1, 2015

Given Name (first and middle initial [if any]): Mark R.		Family Name or Surname (last name): Boone	
Inventor's Signature:		Date:	
Residence (City and State): Gilbert, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA)) 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	

Given Name (first and middle initial [if any]): Kevin P.		Family Name or Surname (last name): Kuehn	
Inventor's Signature:		Date:	
Residence (City and State): Shoreview, Minnesota		Country: US	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)			
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	

Given Name (first and middle initial [if any]): Marshall J.		Family Name or Surname (last name): Rasmussen	
Inventor's Signature:		Date:	
Residence (City and State): Mesa, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA)) 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.			
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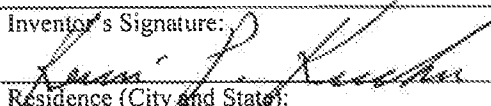

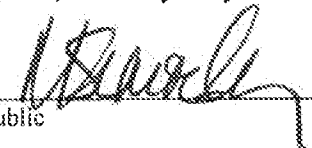
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In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle initial [if any]): Randolph E.		Family Name or Surname (last name): Crutchfield	
Inventor's Signature:		Date:	
City and State: Scottsdale, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA)) 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	

Given Name (first and middle initial [if any]): Mark R.		Family Name or Surname (last name): Boone	
Inventor's Signature:		Date:	
Residence (City and State): Gilbert, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA)) 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	

Given Name (first and middle initial [if any]): Kevin P.		Family Name or Surname (last name): Kuehn	
Inventor's Signature: 		Date: 4/21/2014	
Residence (City and State): Shoreview, Minnesota		Country: US	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this <u>21st</u> day of <u>April</u> , <u>2014</u> , 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)		 MADONNA M. SCHROEDER Notary Public-Minnesota My Commission Expires Jan 31, 2015  Notary Public	

Given Name (first and middle initial [if any]): Marshall J.		Family Name or Surname (last name): Rasmussen	
Inventor's Signature:		Date:	
Residence (City and State): Mesa, Arizona		Country: US	Citizenship: US
STATE OF ARIZONA)) 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	