PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2917045

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
MELISSA G.T. CHRISTIE	06/02/2014
AMY E. THOMPSON-NAUMAN	05/29/2014
BECKY L. DOLAN	05/23/2014
PAUL J. DEGROOT	06/03/2014
RICK D. MCVENES	06/03/2014

RECEIVING PARTY DATA

Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY NE.
Internal Address:	MAILSTOP LC340
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14270804	

CORRESPONDENCE DATA

Fax Number: (651)367-0471

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.

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Correspondent Name: EVANS M. MBURU

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ATTORNEY DOCKET NUMBER:	C00005686.USU2
NAME OF SUBMITTER:	EVANS M. MBURU
SIGNATURE:	/Evans M. Mburu/
DATE SIGNED:	06/27/2014

Total Attachments: 3

PATENT REEL: 033194 FRAME: 0711

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> PATENT REEL: 033194 FRAME: 0712

Attorney Docket No.: C00005686.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

MULTI-MODE 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. 14/270,804; was filed on May 6, 2014;			
	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. 61/819,926; filed on May 6, 2013;			
	which application is identified as PCT International Patent Application No.; filed;			
refi Un	Whereas, <u>Medtronic. Inc.</u> , a corporation organized and existing under the laws of the State of Minnesota and ving a principle place of business at <u>710 Medtronic Parkway N.E., Minneapolis, 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 inted 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 3 Attorney Docket No.: C00005686.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.

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	nily Name or Surname (last	name):	
Melissa G.T. Chi	ristie		200000
Inventor's Signature:	Date:		
Walson DD Christia	6/2/14	(20)	
City and State:	Country:	Citizenship:	
Andover, Minnesota	US	US	90000
STATE OF MINNESOTA)			
) ss.			700000
COUNTY OF RAMSEY) On this	anub.		
On this day of and who executed the foregoing instrument, as said per	son's free act and deed on	me personally appeared the above-name	:a,
and who exceuted the foregoing moralment, as said per	son's nee act and acca, on	me day and your diorestra.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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(Seal) \$ Notary Public Minnesote \$		<u>woor</u>	
\$ 7.27 My Commission Elegens usin 31, 2015 \$ 1 months and	Notary Public	The state of the s	
Given Name (first and middle initial [if any]): Far	La Maria an Company (100)	name):	
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Amy E. The	ompson-Nauman		
Amy E. The	ompson-Nauman	Y ZO / 4 Citizenship:	
Amy E. The Lexensor's Signature Thomas Son Juma	ompson-Nauman Date:		
Amy E. The Inventor's Signature. The Son Juma Residence (City and State):	ompson-Nauman Date: 29 Country:	Y ZO / 4 Citizenship:	
Amy E. The Invenior's Signature. Residence (City and State): Ham Lake, Minnesota STATE OF MINNESOTA)) ss.	ompson-Nauman Date: 29 Country:	Y ZO / 4 Citizenship:	
Amy E. The Inventor's Signature. Residency (City and State): Ham Lake, Minnesota STATE OF MINNESOTA) SS. COUNTY OF RAMSEY)	Ompson-Nauman Date: 29 Country: US	ZO/4 Citizenship: US	
Amy E. The Inventor's Signature. Residency (City and State): Ham Lake, Minnesota STATE OF MINNESOTA) State Of MINNESOTA) On this American day of	Ompson-Nauman Date: 29 Country: US	Citizenship: US me personally appeared the above-name	ed,
Amy E. The Inventor's Signature. Residency (City and State): Ham Lake, Minnesota STATE OF MINNESOTA) SS. COUNTY OF RAMSEY)	Ompson-Nauman Date: 29 Country: US	Citizenship: US me personally appeared the above-name	ed,
Amy E. The January Signature. Residency (City and State): Ham Lake, Minnesota STATE OF MINNESOTA) COUNTY OF RAMSEY) On this	Ompson-Nauman Date: 29 Country: US	Citizenship: US me personally appeared the above-name	ed,
Amy E. The Inventor's Signature Residency (City and State): Ham Lake, Minnesota STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this day of and who executed the foregoing instrument as said per and who executed the foregoing instrument as a said per and who executed the foregoing instrument as a said per and who executed the foregoing instrument as a said per and who executed the foregoing instrument as a said per and who executed the foregoing instrument as a said per and who executed the foregoing instrument as a said per and who executed the foregoing instrument as a said per and who executed the foregoing instrument as a sai	Date: 29 Country: US 2014, before reson's free act and deed, on	Citizenship: US me personally appeared the above-name	ed,
Amy E. The Inventor's Signature Residency (City and State): Ham Lake, Minnesota STATE OF MINNESOTA) Ss. COUNTY OF RAMSEY) On this day of and who executed the foregoing instrument as said per	Date: 29 Country: US 2014, before reson's free act and deed, on	Citizenship: US me personally appeared the above-name	∍d,

Given Name (first and middle initial [if any]): Becky L.				
Inventor's Signature:		Date: 5/23//4 Country: Citizenship:		
Residence (City and State): Chisago, Minnesota		Country: US	Citizenship: US	
STATE OF MINNESOTA) On this 23 22 day of 24 2 20 4 , before me personally appeared the above-named ,				
and who executed the foregoing instrument, as sa MADONNA M. SCHROEDE Notary Public-Minnesota My Commission Express Lan 21, 25		Notary Public	nd year aforesaid.	
Given Name (first and middle initial [if any]): Paul J.	Family N DeGroot	ame or Surname (last name):		
Inventor's Signature.		Date: 3-June - 2014		
Residence (City and State): Shoreview, Minnesota		Country: US	Citizenship: US	
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this 3v4 day of 4v4 , 204, 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) MOLLY CHLEBECK Notary Public Notary Public Notary Public				
Given Name (first and middle initial [if any]): Family Name or Surname (last name): Rick D. McVenes				
Inventor's Signature:		Date: 6/3	14	
Residence (City and State): Isanti, Minnesota		Country: US	Citizenship: US	
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this 3vd day of				
(Seal) Notary Public-Minnesota My Commission Express Jan 31, 20		Notary Public	www.	

Assignment

RECORDED: 06/27/2014

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

Attorney Docket No.:> C00005686.USU2