502113251 10/31/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Matthew D. Bonner	10/11/2012
Saul E. Greenhut	10/09/2012
Todd J. Sheldon	10/11/2012
Wade M. Demmer	10/09/2012

RECEIVING PARTY DATA

Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway N.E.
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13665492

CORRESPONDENCE DATA

Fax Number: 6517351102

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

Phone: (651) 735-1100

Email: pairdocketing@ssiplaw.com
Correspondent Name: Shumaker & Sieffert, P.A.

Address Line 1: 1625 Radio Drive

Address Line 4: Woodbury, MINNESOTA 55125

ATTORNEY DOCKET NUMBER:	C00001713.USU1/1111-400

NAME OF SUBMITTER: Barbara A. Geisthardt

Total Attachments: 6

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PATENT REEL: 029221 FRAME: 0495 D \$40.00 13665492

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PATENT REEL: 029221 FRAME: 0496

Attorney Docket No.: C00001713.USU1/1111-400US01

ASSIGNMENT OF APPLICATION(S)

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

	LEADLESS PACEMAKER SYSTEM	
	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 fil	ed 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 Unit	Whereas, <u>Medtronic</u> , <u>Inc.</u> , a corporation organized and existing under the laws of the State of Minneso ing a principle place of business at <u>710 Medtronic Parkway N.E.</u> , <u>Minneapolis</u> , <u>Minnesota 55432-5604</u> , here to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention it ted States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which total therefore:	einafter or the

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

Assignment

Page 1 of 3 Attorney Docket No.: C00001713.USU1/1111-400US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

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]):	Family N	ame or Surname (1	last name):		***********
Matthew D.	Bonner				
Inventor's Signature:	- 	Date:			
Misorch Dame			11-13		
City and State:		Country:		Citizenship:	
Plymouth, Minnesota		USA		USA	
STATE OF MINNESOTA)					
) ss.					
COUNTY OF RAMSEY)		in the same			
On this May of October	***************************************	30) 3 , before	re me person	nally appeared the above-named	l
Matthew D. Bonner, and who executed the forego	WWW #	ent, as said person	i's free act ar	nd deed, on the day and year	
≹ 282 POX. SUSAN M. NIENAR	BER (*			φ _{iA} ,	
🐧 A SELECTOR OF ALAMAN, WE ARROUGH STREET	ST 1999 1	-	-	ž 3.	
(Seal)	. 2016 (2) Waxaya	moar	<u> </u>	enaber	
**************************************		Notary Public			
	***************************************	***************************************		***************************************	
Given Name (first and middle initial [if any]):	Family N	ame or Surname (I	act name).	**************************************	nononinno
Saul E.	Greenhut		asi name,		
Inventor's Signature:	1	Date:			
Residence (City and State):	***************************************	Country:		Citizenship:	
Aurora, Colorado		USA		USA	
STATE OF COLORADO)		***************************************			
) ss.					
COUNTY OF)					
On this day of		, befor	re me persor	nally appeared the above-named	l
On this day of Saul E. Greenhut, and who executed the foregoing	; instrument	, as said person's f	re me persor ree act and o	nally appeared the above-named deed, on the day and year	l
On this day of Saul E. Greenhut, and who executed the foregoing aforesaid.	instrument	, as said person's f	re me persor free act and o	nally appeared the above-named deed, on the day and year	[
Saul E. Greenhut, and who executed the foregoing	; instrument	, as said person's f	re me persor free act and o	nally appeared the above-named deed, on the day and year	I
Saul E. Greenhut, and who executed the foregoing aforesaid.	g instrument	, as said person's f	re me persor free act and o	nally appeared the above-named deed, on the day and year	!
Saul E. Greenhut, and who executed the foregoing	; instrument	, as said person's f	re me persor free act and o	nally appeared the above-named deed, on the day and year	

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Given Name (first and middle initial [if any]): Todd J.	Family N Sheldon	ame or Surname (last name):	
Inventor's Signature: Reld Reld	marks.	Date: /0-//-/2	
Residence (City and State) North Oaks, Minnesota		Country: USA	Citizenship: USA
STATE OF MINNESOTA)) ss.			
COUNTY OF RAMSEY)		na vijeka na sama	
On this May of October		DOD, before me person	ally appeared the above-named
Todd J. Sheldon, and who executed the foregoing i	instrument,	as said person's free act and de	eed, on the day and year
aforesaid. SUSAN M. NIENABEF Noticity Public Minytesiota My Commission Explass Jan 31, 201		Notary Public	raber_
			100

Given Name (first and middle initial [if any]): Wade M.	Family Na	ame or Surname (last name):	MANALA MARKANIA MARKANI
		D	MMM: Microscope (1997)
Wade M.		D	-2012
Wade M.			Citizenship:
Wade M. Inventor's Signature: Residence (City and State):		Date: O 9 - Oc t- Country:	ーンシ/ こ Citizenship: USA
Wade M. Inventor's Signature: Residence (City and State): Coon Rapids, Minnesota STATE OF MINNESOTA) ss. COUNTY OF RAMSEY)		Date: O 9 - Oc t- Country: USA	USA
Wade M. Inventor's Signature: Residence (City and State): Coon Rapids, Minnesota STATE OF MINNESOTA) ss.	Demmer	Date: O 9 - Oct Country: USA before me person	ally appeared the above-named

Attorney Docket No.: C00001713.USU1/1111-400US01

ASSIGNMENT OF APPLICATION(S)

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

	LEADLESS PACEMAKER SYSTEM		
\boxtimes	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	led 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 Un	Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the String a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 5 erred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to ited States and for all foreign countries and in and to any and all foreign and domestic Letter need therefore:	5432-5604, her said invention	reinafte for the

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

Page 1 of 3 Attorney Docket No.: C00001713.USU1/1111-400US01

Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

Assignment

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.

			ar set forth below.
Given Name (first and middle initial [if any]): Matthew D.	Family I Bonner	lame or Surname (last	name):
Inventor's Signature:		Date:	220000000000000000000000000000000000000
City and State: Plymouth, Minnesota		Country: USA	Citizenship: USA
STATE OF MINNESOTA)) 55. COUNTY OF RAMSEY) On this day of Matthew D. Bonner, and who executed the foreg	oing instru	, , before ; nent, as said person's ;	me personally appeared the above-named free act and deed, on the day and year
(Seal)		Notary Public	
Given Name (first and middle initial [if any]): Saul E.	Family I Greenh	Vame or Surname (las ut	t name):
Inventor's Signapage:		Date: 10/9/201	2.15
115 Mart		10/9/20/	L
		Country: USA	Citizenship: USA

Given Name (first and middle initial (if any)):	Family Name or Surname	(last nama)	0000000000
Todd J.	Sheldon	(tase traite).	
Inventor's Signature:	Date:		
Residence (City and State): North Oaks, Minnesota	Country: USA	Citizenship: USA	*********
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this day of Todd J. Sheldon, and who executed the foregoing aforesaid.	, bei g instrument, as said person's	ore me personally appeared the above-name free act and deed, on the day and year	ĸŠ.
(Scal)	Notary Public		

Given Name (first and middle initial [if any]):	Family Name or Surname	(last name):	***************************************
Given Name (first and middle initial [if any]): Wade M.	Family Name or Surname Demmer	(last name):	***************************************
	, ,	(last name):	00000000000000000000000000000000000000
Wade M.	Denmer	(last name): Citizenship: USA	000000000
Wade M. Inventor's Signature; Residence (City and State):	Demmer Date: Country: USA	Citizenship: USA USA ore me personally appeared the above-name	