502542020 10/23/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2587469

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES D. REINKE	10/18/2013
CHARLES R. GORDON	10/21/2013
KEVIN P. KUEHN	10/21/2013
MICHAEL B. TERRY	10/21/2013

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:	14060649

CORRESPONDENCE DATA

Fax Number: (651)367-0471 Phone: 763-526-0925

Email: madonna.schroeder@medtronic.com

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

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:	C00006100.USU3
NAME OF SUBMITTER:	EVANS M. MBURU

PATENT REEL: 031457 FRAME: 0649

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Signature: /Evans M. Mburu/				
Date:	10/23/2013			
Total Attachments: 9				
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PATENT REEL: 031457 FRAME: 0650

Attorney Docket No.: C00006100.USU3

ASSIGNMENT OF APPLICATION(S)

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

CUDDLY MOICE DE IECTION IN 188DLANTADLE MEDICAL DEVICES

	SUPPLIT INVISE REJECTION IN INFLANTABLE MEDICAL DEVICES
\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 ;
\boxtimes	for which above application claims priority to U.S. Provisional Patent Application No. 61/876,454; filed on September 11, 2013;
	which application is identified as PCT International Patent Application No.; filed;

Whereas, <u>Medtronic</u>, <u>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

Page 1 of 3 Attorney Docket No.: C00006100.USU3

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/our name(s) on the day and year set forth below.				
		ame or Surname (I	ast name):	
James D.	Reinke			
Inventor's Signature:		Date:		
Dames of Route		10-18-	2013	
City and State:	***************************************	Country:	Citizenship:	
Maple Grove, Minnesota		US	US	
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this day of d				
Given Name (first and middle initial [if any]):	Comile N	lame or Surname (I	act rare)	
Charles R.	Gordon	iame or Suriame (i	ast name).	
Inventor's Signature:	4	Date:		
Residence (City and State):		Country:	Citizenship:	
Phoenix, Arizona		US	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.	Pamily Name or Surname (last name): Kuehn			
Inventor's Signature:		Date: $ 0/2 /20 $ Country: Citizenship:		
Residence (City and State): Shoreview, Minnesota		Country: US	Citizenship: US	
COUNTY OF AND SS. On this Aday of And				
Given Name (first and middle initial [if any]): Michael B.	Family N Terry	ame or Surname (last name):		
Inventor's Signature:		Date:		
Residence (City and State): Camas, Washington		Country: US	Citizenship: US	
STATE OF WASHINGTON) 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		

Attorney Docket No.: C00006100, USU3

ASSIGNMENT OF APPLICATION(8)

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

Ø	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. 61/876,454; filed on September 11, 2013;
	which application is identified as PCT International Patent Application No.; filed;
refe	Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and ing a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereinafter tred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the ted States and for all foreign countries and in and to any and all foreign and domestic Laters Person which was be

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

granted therefore;

Page 1 of 3 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432 Attorney Docket No.: C00006100.USU3

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]): James D.	our name(s) on the day and year set fort Family Name or Surname (last name): Reinke		
Inventor's Signature:		Date:	
City and State: Maple Grove, Minnesota		Country: US	Citizenship: US
STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this day of and who executed the foregoing instrument, as sa	id person's	before me free act and deed, on the	personally appeared the above-named, day and year aforesaid.
(Scal)		Notary Public	
Given Name (first and middle initial [if any]): Charles R.	Family Gordon	Name or Surname (last nai	me);
Inventor's Signature:		Date: 10/21/2013	\$
Residence (City and State): Phoenix, Arizona	······································	Country: US	Citizenship: US
STATE OF ARIZONA COUNTY OF AR COP On this 2 day of Stock and who executed the foregoing instrument, as sa (Seal) (Seal)			personally appeared the above-named , day and year aforesaid.

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Given Name (first and middle initial [if any]): Kevin P.	Family Name or Surname (last name): Kuchn	
Inventor's Signature:	Date:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Residence (City and State):		
Shoreview, Minnesota	Country: US	Citizenship:
(2000 C. 100 O.	320	US
STATE OF MINNESOTA)		
), ss.		
COUNTY OF		
On thisday of	,, before me perso	mally appeared the above-named.
and who executed the foregoing instrument, as sa	id person's free act and deed, on the day a	ınd year aforesaid.
(Seal)		
	Notary Public	
Given Name (first and middle initial [if any]):	Family Name or Surname (last name):	
Michael B.	Terry	
Inventor's Signature:	Date:	
Residence (City and State):	Country:	Citizenship:
Camus, Washington	US	US
over a new constant and a second constant and		
STATE OF WASHINGTON)		
COUNTY OF		
On thisday of and who executed the foregoing instrument, as sa	before me perso	maily appeared the above-named.
and who executed the toregoing instrument, as sa	in person's tree act and deed, on the day a	ing year aforesaid.
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(Seal)	Notary Public	
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Attorney Docket No.: C00006100 USU3

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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

SUPPLY NOISE REJECTION IN IMPLANTABLE MEDICAL DEVICES				
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. 61/876,454; filed on September 11, 2013;				
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;

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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

Attorney Docket No.: C00006100.USU3

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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 form delow. ven Name (first and middle initial [if any]): Family Name or Surname (last name): mes D. Reinke							
Inventor's Signature:	Date:						
Manager a manager							
City and State: Maple Grove, Minnesota	Country: US	Citizenship: US					
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)							
On thisday 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.							
(Scal)	Notary Public	Notary Public					
Given Name (first and middle initial [if any]): Family Name or Surname (last name): Charles R. Gordon							
Inventor's Signature:	Date:	Date:					
Residence (City and State): Phoenix, Arizons	Country: US	Citizenship: US					
STATE OF ARIZONA)) ss.							
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.							
(Scai)	Notary Public						

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Given Name (first and middle initial [if any]): Family Kevin P. Kuehn		Name or Surname (last name):					
Inventor's Signature:	and the second s	Date:					

Residence (City and State): Shoreview, Minnesota		Country: US	Citizenship: US				

STATE OF MINNESOTA)							
COUNTY OF							
On thisday 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.							
and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.							
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(Scal)							
()		Notary Public					
Given Name (first and middle initial [if any]):	Family N	iame or Surname (k	ast name):				
Michael B.	Terry						
Inventor's Signature		Date:					
Myself B Zery		Country: Citizenship:					
Residence (City and State):		Country: US	Catazenship: US				
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STATE OF WASHINGTON)							
COUNTY OF CLASS							
On this 21 day of 00 to 13, 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.							
and who executed the foregoins instrument, as said person's free act and deed, on the day and year aforesaid. NOTARY PUBLIC							
STATE OF WASHINGTON		<i>I</i> , .	4.7 .,				
(Seal) AMBER L. PRITCHARD		Mindee	t Bither				
MY COMMISSION EXPIRES		Notary Public	· ·				
OCTOBER 1, 2016							

Assignment

Attorney Docket No.: C00006100.USU3