502542022 10/23/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2587471

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHARLES R. GORDON	10/21/2013
KEVIN P. KUEHN	10/21/2013
JAMES D. REINKE	10/18/2013
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:	14060646

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.USU2
NAME OF SUBMITTER:	EVANS M. MBURU

PATENT

REEL: 031457 FRAME: 0660

502542022

Signature: /Evans M. Mburu/			
Date:	10/23/2013		
Total Attachments: 9	Total Attachments: 9		
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PATENT REEL: 031457 FRAME: 0661

Attorney Docket No.: C00006100,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

ļ	IMPLANTABLE MEDICAL DEVICES WITH POWER SUPPLY NOISE ISOLATION
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;
	Whereas Madreynia Inc. of annual and the state of the sta

Whereas, Mcdtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and having a principle place of business at 710 Mcdtronic 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

Assignment

Page 1 of 3 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

Attorney Docket No.: C00006100 USU2

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.

Family Name or Surname (last name):

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]):

	Cord		
Inventor's Signature:	***************************************	Date:	
and I de la de la della	<u> </u>	10/21/2013	
Residence (City and State):		Country:	Citizenship:
Phoenix, Arizona		US	US CONTRACTOR
STATE OF PHOENIX)			
COUNTY OF TARLEGED A			
On this <u>21</u> day of 05	UPSE 12.	2012 before	me personally appeared the above-nam
and who executed the foregoing instrument	tt, as said person	s free act and deed, on	the day and year aforesaid.
(C-0)	SICHAM	Carried St.	
(Scal) Setter Patrick State Control of the Associated May Commission			A My Market Ball Ball Ball Ball Ball Ball Ball Bal
		Notary Public	
Given Name (first and middle initial [if an Kevin P.		Name or Suriame (Jasi	
N.C.Y. 11	Kuchn		

inventor's Signature:		Date:	
nventor's Signature:		Date:	
Residence (City and State):		Date: Country:	Citizenship:
Residence (City and State):			Citizenship: US
Residence (City and State): Shoreview, Minnesota		Country:	\$1.65
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Residence (City and State): Shoreview, Minnesota STATE OF MINNESOTA)) ss.		Consistry: US	\$1.65
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Residence (City and State): Shoreview, Minnesota TATE OF MINNESOTA) Ss. OUNTY OF On this day of nd who executed the foregoing instrument	t, as said person's	Country: US	ve nerconsily amount the above years
Residence (City and State): Shoreview, Minnesota STATE OF MINNESOTA)) ss.	t, as said person's	Country: US	ve nerconsily amount the above years

Given Name (first and middle initial [if any]): James D.	Family N Reinke	ame or Surname (last name):	
Inventor's Signature:		Date:	
City and State: Maple Grove		Country; US	Citizenship: US
STATE OF MINNESOTA) > ss. COUNTY OF RAMSEY) On thisday of			
and who executed the foregoing instrument, as sai	id person's f		nally appeared the above-named , and year aforesaid.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Notary Public	
Given Name (first and middle initial [if any]): Michael B.	Family Na Terry	ime or Surname (last name):	
Inventor's Signature:		Date:	
Residence (City and State): Camas, Washington		Country: US	Citizenship: US
STATE OF WASHINGTON) COUNTY OF			
On this day of	l person's fr	,, before me person se act and deed, on the day as	ally appeared the above-named , if year aforesaid.
(Seal)			<i>menuum</i>
		Notary Public	

Attorney Docket No.: C00006100.USU2

Attorney Docket No.: C00006100.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

IMPLANTABLE MEDICAL DEVICES WITH POWER SUPPLY NOISE ISOLATION

\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;
hav	Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and ring a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereinafte

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

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 Attorney Docket No.: C00006100.USU2 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

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]): Charles R.	Family Name or Surname (las Gordon	t name):		
Inventor's Signature:	Date:	Date:		
Residence (City and State): Phoenix, Arizona	Country: US	Citizenship: US		
STATE OF PHOENIX)) 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.		
(Seal)	Notary Public			
Given Name (first and middle initial [if any]): Kevin P.	Family Name or Surname (las Kuehn	t name):		
Inventor's Signature:	Date: /0/2//	2013 Citizenship:		
Residence (City and State): Shoreview, Minnesota	Country: US	Citizenship: US		
STATE OF MINNESOTA) COUNTY OF AND SS. On this day of And And School of State of S	aid person's free act and deed, on	me personally appeared the above-named, the day and year aforesaid.		

Assignment

Page 2 of 3 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

Attorney Docket No.: C00006100.USU2

REEL: 031457 FRAME: 0666

Inventor's Signature: Aarban D. Rainka	Date:	Date: (0-18-2013	
City and State: Maple Grove	Country: US	Citizenship: US	
STATE OF MINNESOTA) ss. COUNTY OF RAMSEY) On this day of	1 , 2013, before said person's free act and deed, on	me personally appeared the above-nam	
(Seal) MADONNA M. SCHROEDI Notary Public Minnesots Sy Commission Bysiss Jan 31, 20	Notary Public	Quella	

Given Name (first and middle initial [if any]): Michael B.	Family Name or Surname (last name): Terry						
Inventor's Signature:	L	Date:					
Residence (City and State): Camas, Washington		Country: US	Citizenship: US				
STATE OF WASHINGTON) SS.							
(Seal)	Notary Public						

Assignment

Page 3 of 3 Meditronic, inc., 710 Meditronic Parkway, Minneapolis, MN 55432

Attorney Docket No. C00006100.USU2

Attorney Docket No.: C00006100.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

IMPLANTABLE MEDICAL DEVICES WITH POWER SUPPLY NOISE ISOLATION

l	
	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</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>Minnesotas</u>, <u>Minnesotas</u>, <u>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.USU2

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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]): Charles R.	Family Name or Surname (last name): Gordon					
Inventor's Signature:		Date:				
Residence (City and State): Phoenix, Arizona		Country: US	Citizenship: US			
STATE OF PHOENIX. SS.						
(Scal) Notary Public						
Given Name (first and middle initial [if any]): 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						

Given Name (first and middle initial [if any]): James D.	Family? Reinke	Family Name or Surname (last name): Reinke					
Inventor's Signature:		Date:					
City and State: Maple Grove		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]): Family Name or Surname (last name): , Michael B. Terry							
Inventor's Signature Nulse B Terre		Date: /0/21//3					
Residence (City and State): Camas, Washington		Country: US	/// Citizenship: US				
STATE OF WASHINGTON)) 56.							
COUNTY OF CACES On this A to of County of Cou							
(Seal) MY COMMISSION EXPIRES COCTOBER 1, 2016		Notary Public	State of the state				

Assignment

RECORDED: 10/23/2013

ge 3 of 3 Attorney Docket No.: C00006100.USU2