PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
William T. Donofrio	01/04/2010
Paul Gordon Krause	01/04/2010
Gerald P. Arne	01/04/2010
James D. Reinke	01/04/2010
David Jerome Peichel	01/06/2010
Timothy Davis	01/08/2010
John E. Burnes	01/04/2010

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12610025

CORRESPONDENCE DATA

Fax Number: (651)735-1102

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

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

1625 Radio Drive Address Line 1:

Suite 300 Address Line 2:

Address Line 4: Woodbury, MINNESOTA 55125

ATTORNEY DOCKET NUMBER: P0033877.01/1111-113US01

PATENT

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NAME OF SUBMITTER:	Brenda L. Thom
Total Attachments: 10	
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Attorney Docket No.: P0033877.01/1111-113US01

ASSIGNMENT OF APPLICATION

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

INTERFERENCE MITIGATION FOR IMPLANTABLE DEVICE RECHARGING		
for which an application for a United States Patent is being filed contemporaneously herewith; for which an application for a United States Patent identified as U.S. Patent Application No. 12/610,025; was filed on October 30, 2009;		
which application is identified as PCT International Patent Application No.; filed;		
Whomas Made : I		

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 55432-5640</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, including any provisional application disclosing said invention, such as U.S. Provisional Application No. 61/110,144 filed on October 31, 2008, 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 o 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 a the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interes 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, shal advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding ir 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.

Assignment

Page 1 of 5 Attorney Docket No.: P0033877.01/1111-113USC1 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

In witness whereof, I/we have signed my/our name	(s) on the day and year set for	orth below.
Given Name (first and middle initial [if any]): William T.	Family Name or Surname (last name):	
	Donofrio	
Inventor's Signature: (V () T) On fu City and State:	Date: / - 4 - 10	
City and State:	Country:	Citizenship:
Andover, Minnesota	USA	USA
STATE OF MINNESOTA)		
On this day of appeared the above-named William T. Donofrio, person's free act and deed, on the day and year aforest.	and who executed the fore presaid.	pefore me personally egoing instrument, as said
(Seal) JARRIE M ARCAND Notary Public Winnesota M Conduction Expires January 31, 2010	Notary Public	arcand
Given Name (first and will be the first		
Given Name (first and middle initial [if any]): Paul Gordon	Family Name or Surname (last name): Krause	
Inventor's Signature:	Date: 1/4/10	
Residence (City and State):	Country:	Citizenship:
Shoreview, Minnesota	USA	USA
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)	-	
On this 4th day of January	, 2010 ,b	efore me personally
appeared the above-named radii Gordon Krause, a	ind who executed the fore	going instrument, as said
person's free act and deed, on the day and year afor	oresaid.	
Sea BETH M. LINDBLOM Notary Public-State of Minnesota My Commission Expires January 31, 2012	Both M. Lindblom Notary Public	

Given Name (first and middle initial [if any]):	Family Name or Surname (last name):	
Gerald P.	Arne	
Inventor's Signature	Date: / /	
	1/4/2010	
Residence (City and State):	Country:	Citizenship:
Long Lake, Minnesota	USA	USA
STATE OF MINNESOTA)		
) ss. COUNTY OF RAMSEY)		
On this	, <i>2010</i> , be	fore me personally
appeared the above named detaild 1. Affic, and who	o executed the foregoing	instrument, as said person's
free act and deed, on the day and year aforesaid.		pozocii o
BETH M. LINDBLOM Notary Public-State of Minnesota My Commission Expires January 31, 2012	Beth M. Lindblom Notary Public	
Circon Name (C. 4. 1. 1111 1 11 1 11 1 11 1 11 1 11 1		
Given Name (first and middle initial [if any]): James D.	Family Name or Surname (last name): Reinke	
Inventor's Signature:	Date:	
Residence (City and State):	1/4/2010	
	Country:	Citizenship:
Maple Grove, Minnesota	USA	USA
STATE OF MINNESOTA)		
) ss. COUNTY OF RAMSEY)		
On this 4th day of January	, 2010.be	fore me personally
appeared the above-named James D. Reinke, and w	no executed the foregoing	g instrument, as said
person's free act and deed, on the day and year afore	esaid.	5
SETH M. LINDBLOM Notary Public-State of Minnesota My Commission Expires January 31, 2012	Both M. Lindblom Notary Public	

Given Name (first and middle initial [if any]):	Family Name or Surname (last name):		
David Jerome	Peichel		
Inventor's Signature:	Date:		
1) - 5	1/6/2010	1 4 7010	
Residence (City and State):	Country:	Citizenship:	
Minneapolis, Minnesota	USA	USA	
STATE OF MINNESOTA)			
) ss.			
COUNTY OF RAMSEY)			
On this 6 day of Jenuary	2010 he	fore me personally	
On this day of,,,,			
person's free act and deed, on the day and year afor	esaid.	some morament, as said	
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The second second and the second second	000	$1 \bigcirc 1$	
(Seal) ARRIE M ARCAND Notary Public	_ Cashu !!	Caranel	
Minnesota	Notary Public		
My Commission Expires January 31, 2010			
Given Name (first and middle initial [if any]):	Family Name or Surname (la	st name):	
Timothy	Davis		
Inventor's Signature:	Date:		
D :1 (C: 1.C			
Residence (City and State):	Country:	Citizenship:	
Coon Rapids, Minnesota	USA	USA	
STATE OF MINNESOTA)			
) SS.			
COUNTY OF)			
On this day of	,, bet	fore me personally	
appeared the above-named Timothy Davis, and who	executed the foregoing i	nstrument, as said person's	
free act and deed, on the day and year aforesaid.	_	•	
(a)			
(Seal)			
	Notary Public	-	

Given Name (first and middle initial [if any]):	Family Name or Surname (last name):	
John E.	Burnes	
Inventor's Signature: \	Date: \/4/10	
Residence (City and State):	Country:	Citizenship:
Coon Rapids, Minnesota	USA	USA
STATE OF MINNESOTA) ss. COUNTY OF RAMSEY) On this	ر کرات , be o executed the foregoing	fore me personally instrument, as said person's
Seal Notary Public-State of Minnesota My Commission Expires January 31, 2012	Beth W. Lindblom Notary Public	

Attorney Docket No.: P0033877.01/1111-113US01

ASSIGNMENT OF APPLICATION

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

INTERFERENCE MITIGATION FOR IMPLANTABLE DEVICE RECHARGING
for which an application for a United States Patent is being filed contemporaneously herewith;
for which an application for a United States Patent identified as U.S. Patent Application No. 12/610,025; was filed on October 30, 2009;
which application is identified as PCT International Patent Application No.; filed;
Wharans Madtronia Inc. a server the server to the server t

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 55432-5640</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, including any provisional application disclosing said invention, such as U.S. Provisional Application No. 61/110,144 filed on October 31, 2008, 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.

Page 1 of 5 Attorney Docket No.: P0033877.01/1111-113US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

In witness whereof, I/we have signed my/our name	e(s) on the day and yea	ar set forth below.
Given Name (first and middle initial [if any]):	Family Name or Sur	rname (last name):
William T.	Donofrio	
Inventor's Signature:	Date:	
City and State:	Country:	Citizenship:
Andover, Minnesota	USA	USA
STATE OF MINNESOTA)		
) ss. COUNTY OF RAMSEY)		
.		
On this day of		, before me personally
appeared the above-named William T. Donofrio,	and who executed the	he foregoing instrument, as said
person's free act and deed, on the day and year afor	oresaid.	
(Seal)		
(Seal)	NI-40 Dublio	
	Notary Public	
Given Name (first and middle initial [if any]):	Family Name or Sur	rname (last name):
Paul Gordon	Krause	
Inventor's Signature:	Date:	
Residence (City and State):	Country:	Citizenship:
Shoreview, Minnesota	USA	USA
STATE OF MINNESOTA)		
) ss. ´		
COUNTY OF RAMSEY)		
On this day of	,	, before me personally
· · · · · · · · · · · · · · · · · · ·	and sub-a 1 (1	ne foregoing instrument as said
appeared the above-named Paul Gordon Krause, a	ana wno executea th	
appeared the above-named Paul Gordon Krause, a person's free act and deed, on the day and year aforms	and who executed transcribed t	ie roregonig matrument, as said
appeared the above-named Paul Gordon Krause, a person's free act and deed, on the day and year aform	oresaid.	is rorogonig instrument, as said
appeared the above-named Paul Gordon Krause, a person's free act and deed, on the day and year aform	oresaid.	io rorogonig instrument, as salu
appeared the above-named Paul Gordon Krause, a person's free act and deed, on the day and year aform (Seal)	oresaid.	roregoing instrument, as said
person's free act and deed, on the day and year afor	oresaid. Notary Public	

0. 11 (0. 11)				
Given Name (first and middle initial [if any]): Gerald P.	Family Name or Surname (last name): Arne			
Inventor's Signature:	Date:			
: 				
Residence (City and State):	Country:	Citizenship:		
Long Lake, Minnesota	USA	USA		
STATE OF MINNESOTA)				
) ss. COUNTY OF RAMSEY)				
On this day of		hefore me personally		
appeared the above-named Gerald P. Arne, and wh	no executed the fores	, before the personally going 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 Surn	ama (last nama):		
James D.	Family Name or Surname (last name): Reinke			
Inventor's Signature:	Date:			
Residence (City and State):	Country:	Citizenship:		
Maple Grove, Minnesota	USA	USA		
STATE OF MINNESOTA)				
) ss. COUNTY OF RAMSEY)				
On this day of		hefore me nerconally		
On this day of appeared the above-named James D. Reinke, and v	who executed the for	egoing instrument as said		
person's free act and deed, on the day and year afor	resaid.	egoing monument, as said		
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(Seal)				
	Notary Public			

Given Name (first and middle initial [if any]):	Family Name of Comme (1			
David Jerome	Family Name or Surname (last name): Peichel			
Inventor's Signature:	Date:			
5				
Residence (City and State):	Country:	Citizenship:		
Minneapolis, Minnesota	USA	USA		
STATE OF MINNESOTA)				
) ss.				
COUNTY OF RAMSEY)				
On this day of	, , be	efore me personally		
On this day of appeared the above-named David Jerome Peichel,	and who executed the for	egoing 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 anv]):	Family Name or Surname (la	ast name):		
Given Name (first and middle initial [if any]): Timothy	Family Name or Surname (la Davis	ast name):		
Timothy Inventor's Signature:		ast name):		
Inventor's Signature: Timothy Davis	Davis Date:			
Inventor's Signature: Timothy David Residence (City and State):	Davis Date:	ast name): S 10 Citizenship:		
Inventor's Signature: Timothy Davis Residence (Caty and State): Coon Rapids, Minnesota	Davis Date: 544	2010		
Inventor's Signature: Timothy David Residence (City and State):	Davis Date: Country:	Citizenship:		
Inventor's Signature: Jimothy Davis Residence (City and State): Coon Rapids, Minnesota STATE OF MINNESOTA)	Davis Date: Country:	Citizenship:		
Timothy Inventor's Signature: Timothy Davis Residence (City and State): Coon Rapids, Minnesota STATE OF MINNESOTA) COUNTY OF Ramsley)	Davis Date: Jan. Ffa Country: USA	Citizenship: USA		
Timothy Inventor's Signature: Timothy Davis Residence (City and State): Coon Rapids, Minnesota STATE OF MINNESOTA) COUNTY OF Ramsley)	Davis Date: Jan. Ffa Country: USA	Citizenship: USA		
Inventor's Signature: Timethy Davis Residence (City and State): Coon Rapids, Minnesota STATE OF MINNESOTA State of Minnesota On this State day of appeared the above-named Timothy Davis, and wh	Davis Date: Jan. Ffa Country: USA	Citizenship: USA		
Timothy Inventor's Signature: Timothy Davis Residence (City and State): Coon Rapids, Minnesota STATE OF MINNESOTA) COUNTY OF Ramsley)	Davis Date: Jan. Ffa Country: USA	Citizenship: USA		
Inventor's Signature: Timethy Davis Residence (City and State): Coon Rapids, Minnesota STATE OF MINNESOTA State of Minnesota On this State day of appeared the above-named Timothy Davis, and wh	Davis Date: Jan. Ffa Country: USA	Citizenship: USA		
Inventor's Signature: Throthy David Residence (Cay and State): Coon Rapids, Minnesota STATE OF MINNESOTA) ss. COUNTY OF Counties On this State day of appeared the above-named Timothy Davis, and wh free act and deed, on the day and year aforesaid. BARBARA FAN HECKMANN	Davis Date: Jan. Ffa Country: USA	Citizenship: USA		
Inventor's Signature: Timethy Davis Residence (City and State): Coon Rapids, Minnesota STATE OF MINNESOTA State of Minnesota On this State day of appeared the above-named Timothy Davis, and wh	Davis Date: Jan. Ffa Country: USA	Citizenship: USA		

Given Name (first and middle initial [if any]):	Family Name or Surname (last name):				
John E.	Burnes				
Inventor's Signature:	Date:				
Residence (City and State): Coon Rapids, Minnesota	Country: USA	Citizenship: USA			
STATE OF MINNESOTA) ss. COUNTY OF RAMSEY) On this day of,, before me personally appeared the above-named John E. Burnes, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.					
(Seal)					

Assignment

RECORDED: 01/15/2010

Page 5 of 5 Attorney Docket No.: P0033877.01/1111-113US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432