# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE	≣:	NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONV	EYANCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PART	Y DATA				
		Name	Execution Date		
Christopher C. Star	ncer		07/22/2010		
Piotr J. Przybyszev			07/20/2010		
Sandy K. Wixon			07/22/2010		
Joel Peltier			07/22/2010		
Sung-Min Park			07/16/2010		
David E. Manahan			07/28/2010		
Jonathan Edmonso	on		07/22/2010		
Ben W. Herberg			07/22/2010		
		Minneapolis			
r	Medtronic, Ir				
Street Address:	710 Medtron	710 Medtronic Parkway N.E.			
City:	Minneapolis	Minneapolis			
State/Country:		MINNESOTA			
Postal Code:	55432-5640	55432-5640			
PROPERTY NUMB	ERS Total: 1				
Property	Property Type Number				
Application Numbe	Application Number: 12828097				
CORRESPONDEN	CE DATA	·			
Fax Number:	(651)73	35-1102			
		S Mail when the fax attempt is unsuccess	sful.		
Phone:	651735				
Email:					
Correspondent Nan					
Address Line 1:		adio Drive, Suite 300 ury, MINNESOTA 55125			
Address Line 4:					
Address Line 4: ATTORNEY DOCK	ET NUMBER:	1111-184US01	PATENT		

NAME OF SUBMITTER:	Patricia M. Cygan
Total Attachments: 10 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif source=Assignment#page10.tif	

## ASSIGNMENT OF APPLICATION

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

## CONTROLLING EFFECTS CAUSED BY EXPOSURE OF AN IMPLANTABLE MEDICAL DEVICE TO A DISRUPTIVE ENERGY FIELD

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. 12/828,097; was filed on June 30, 2010;

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 55432-5640</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. 61/256,794, filed October 30, 2009, 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 for damages by reason of past infringement or for provisional rights and including the right to suc 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 5
 Attorney Docket No.: P0036387.01/1111-184US01

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

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 for	rth below.	
Given Name (first and middle initial [if any]):	d middle initial [if any]): Family Name or Surname (last name):		
Christopher C.	Stancer		
Inventor's Signature:	Date:		
Chin Stun	DDDalyDaloCountry:Citizenship:USAUnited States of America		
City and State:	Country:	Citizenship:	
Prescott, Wisconsin	USA	United States of America	
STATE OF Minnesote)			
COUNTY OF Ransey ) ss.			
	, 2010, before	e me personally appeared	
the above-named Christopher C. Stancer, and who	executed the foregoing in	strument, as said person's	
free act and deed, on the day and year aforesaid.	encouled the foregoing m	son amont, as cara persons	
(Seal)	Notary Public	Cert	
Jan 31, 2015			
Jan 31, 2015			
Given Name (first and middle initial [if any]): Piotr J.	Family Name or Surname (la Przybyszewski	ast name):	
Jan 31, 2015 Given Name (first and middle initial [if any]):	Family Name or Surname (la	ast name):	
Given Name (first and middle initial [if any]): Piotr J. Inventor's Signature:	Family Name or Surname (la <b>Przybyszewski</b> Date:		
Given Name (first and middle initial [if any]): Piotr J. Inventor's Signature: Residence (City and State):	Family Name or Surname (la <b>Przybyszewski</b> Date: Country:	Citizenship:	
Given Name (first and middle initial [if any]): Piotr J. Inventor's Signature:	Family Name or Surname (la <b>Przybyszewski</b> Date:		
Jan 31, 2015         Given Name (first and middle initial [if any]):         Piotr J.         Inventor's Signature:         Residence (City and State):         Coon Rapids, Minnesota         STATE OF MINNESOTA         )         State         COUNTY OF	Family Name or Surname (la Przybyszewski Date: Country: USA , 2010, before	Citizenship: Poland e me personally appeared	

Assignment

Page 2 of 5 Attorney Docket No.: P0036387.01/1111-184US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

Given Name (first and middle initial [if any]):	Family Name or Surname (last name):	
Sandy K.	Wixon	
Inventor's Signature:	Date:	
Residence (City and State):	7/22/2010	
Residence (City and State):	Country:	Citizenship:
Andover, Minnesota	USA	<b>United States of America</b>
STATE OF MINNESOTA )		
) ss.		
COUNTY OF Ramsey		
On this 22 2 day of July	, 2010, before	e me personally appeared
the above-named Sandy K. Wixon, and who execut	ted the foregoing instrum	ent, as said person's free act
and deed, on the day and year aforesaid.		
Y MARAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		
JANELLE MARIE COOK Notary Public	$\bigcap$	$\rho$
(Seal) Minnesota	Joula	Cach
My Comm. Expires Jan 31, 2015	Notary Public	
	Escuito Mana an Succession (1	
Given Name (first and middle initial [if any]):	Family Name or Surname (la	ist name):
Joel	Peltier	ist name):
	Peltier Date:	
Joel Inventor's Signature:	Peltier Date:	
Joel Inventor's Signature: Residence (City and State):	Peltier Date: 22 JUL Country:	- <i>Jolo</i> Citizenship:
Joel Inventor's Signature: Residence (City and State): Lindstrom, Minnesota	Peltier Date:	
Joel Inventor's Signature: Residence (City and State): Lindstrom, Minnesota STATE OF MINNESOTA )	Peltier Date: 22 JUL Country:	- <i>Jolo</i> Citizenship:
Joel Inventor's Signature: Residence (City and State): Lindstrom, Minnesota STATE OF MINNESOTA )	Peltier Date: 22 JUL Country:	- <i>Jolo</i> Citizenship:
Joel Inventor's Signature: Residence (City and State): Lindstrom, Minnesota STATE OF MINNESOTA ) COUNTY OF Ransey ) ss.	Peltier Date: JUL Country: USA	Citizenship: United States of America
Joel Inventor's Signature: Residence (City and State): Lindstrom, Minnesota STATE OF MINNESOTA ) COUNTY OF $Amser and a back a$	Peltier Date: JUC Country: USA , 2010, before	Citizenship: United States of America
Joel Inventor's Signature: Residence (City and State): Lindstrom, Minnesota STATE OF MINNESOTA ) COUNTY OF Cancer On this 20 <sup>rd</sup> day of July the above-named Joel Peltier, and who executed the	Peltier Date: JUC Country: USA , 2010, before	Citizenship: United States of America
Joel Inventor's Signature: Residence (City and State): Lindstrom, Minnesota STATE OF MINNESOTA ) COUNTY OF $Amser and a back a$	Peltier Date: JUC Country: USA , 2010, before	Citizenship: United States of America
Joel         Inventor's Signature:         Residence (City and State):         Lindstrom, Minnesota         STATE OF MINNESOTA         STATE OF MINNESOTA         )         Ss.         COUNTY OF $\land$ $\land$ On this $\land$	Peltier Date: JUC Country: USA , 2010, before	Citizenship: United States of America
Joel Inventor's Signature: Residence (City and State): Lindstrom, Minnesota STATE OF MINNESOTA ) COUNTY OF Cancer On this 2 day of July the above-named Joel Peltier, and who executed the deed, on the day and year aforesaid. JANELLE MARIE COOK Notary Public	Peltier Date: <i>JUL</i> Country: USA, 2010, before e foregoing instrument, as	Citizenship: United States of America
Joel Inventor's Signature: Residence (City and State): Lindstrom, Minnesota STATE OF MINNESOTA ) COUNTY OF Ansate On this 2014 day of July the above-named Joel Peltier, and who executed the deed, on the day and year aforesaid. JANELLE MARIE COOK	Peltier Date: <i>JUL</i> Country: USA, 2010, before e foregoing instrument, as	Citizenship: United States of America

Given Name (first and middle initial [if any]): Sung-Min	Family Name or Surname (last name): Park			
Inventor's Signature:	Date: 7-16-10			
Residence (City and State): Blaine, Minnesota	Country: USA	Citizenship: Republic of Korea		
STATE OF MINNESOTA ) STATE OF MINNESOTA ) COUNTY OF $\overrightarrow{\text{Ransey}}$ ) On this $\underline{/6^{A}}$ day of $\underline{July}$ , 2010, before me personally appeared the above-named Sung-Min Park, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal) (Seal) JANELLE MARIE COOK Notary Public Minnesota My Comm. Expires Jan 31, 2015	Notary Public	Carel		
Given Name (first and middle initial [if any]):	Family Name or Surname (la	st name):		
David E. Manahan				
Inventor's Signature:	Date: 7-28-20	10		
Residence (City and State):	Country:	Citizenship:		
St. Paul, Minnesota	USA	United States of America		
STATE OF MINNESOTA ) COUNTY OF Ransey ) On this 28 day of July , 2010, before me personally appeared the above-named David E. Manahan, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
JANELLE MARIE COOK				

Given Name (first and middle initial [if any]): Jonathan	Family Name or Surname (last name): Edmonson			
Inventor's Signature	Date: 7/22/10			
Residence (City and State): Blaine, Minnesota	Country: USA	Citizenship: United States of America		
STATE OF MINNESOTA ) ) ss. COUNTY OF <u>Cancey</u> ) On this <u>22 <sup>nc</sup></u> day of <u>July</u> the above-named Jonathan Edmonson, and who ex	, 2010, before			
act and deed, on the day and year aforesaid.	cedied the foregoing man	unient, as said person's nee		
(Seal) JANELLE MARIE COOK Notary Public Minnesota My Comm Expires Jan 31, 2015 Notary Public Notary Public				
Given Name (first and middle initial [if any]):	Family Name or Surname (la	ast name):		
Ben W.	Herberg			
Inventor's Signature:	Date: 7/22/10			
Residence (City and State): Andover, Minnesota	Country: USA	Citizenship: United States of America		
STATE OF MINNESOTA ) () ss. COUNTY OF $Ramsey$ ) On this $22 \stackrel{\text{reg}}{=}$ day of $J_{1}(2)$ , 2010, before me personally appeared the above-named Ben W. Herberg, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal)	Junille	) Ceek		

#### ASSIGNMENT OF APPLICATION

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

## CONTROLLING EFFECTS CAUSED BY EXPOSURE OF AN IMPLANTABLE MEDICAL DEVICE TO A DISRUPTIVE ENERGY FIELD

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. 12/828,097; was filed on June 30, 2010;

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 55432-5640</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. 61/256,794, filed October 30, 2009, 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 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 5 Attorney Docket No.: P0036387.01/1111-184US01 Medfronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

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			
Given Name (first and middle initial [if any]): Family Name or Surname (last name):		ast hame).	
Christopher C.	Stancer		
Inventor's Signature:	Date:		
City and State:	Country:	Citizenship:	
Prescott, Wisconsin	USA United States of America		
STATE OF) ss. COUNTY OF) On this day of	, 2010, befor	e me personally appeared	
the above-named Christopher C. Stancer, and who free act and deed, on the day and year aforesaid.	executed the foregoing ir	istrument, as said person's	
(Seal)	Notary Public		
	Eamily Name or Surname (1	act name).	
Given Name (first and middle initial [if any]): <b>Piotr J.</b>	: Family Name or Surname (last name): Przybyszewski		
Inventor's Signature:		0/2010	
Residence (City and State): Coon Rapids, Minnesota	Country: USA	Citizenship: Poland	
STATE OF MINNESOTA ) STATE of Minnesota )			
Seal) SUSAN M. NIENABER Notary Public-Minnesota My Commission Expires Jan 91, 2015 Notary Public			

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Assignment

Page 2 of 5 Attorney Docket No.: P0036387.01/1111-184US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

Given Name (first and middle initial [if any]): Sandy K.	Family Name or Surname (last name): Wixon			
Inventor's Signature:	Date:			
Residence (City and State): Andover, Minnesota	Country: USA	Citizenship: United States of America		
STATE OF MINNESOTA       )         )       ss.         COUNTY OF)       )         On this day of, 2010, before me personally appeared         the above-named Sandy K. Wixon, 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]): Joel				
Inventor's Signature:	Date:			
Residence (City and State): Lindstrom, Minnesota	Country: USA	Citizenship: United States of America		
STATE OF MINNESOTA ) ) ss. COUNTY OF) On this day of the above-named Joel Peltier, and who executed the deed, on the day and year aforesaid. (Seal)	he foregoing instrument, a	re me personally appeared as said person's free act and		
	Notary Public			

Page 3 of 5 Attorney Docket No.: P0036387.01/1111-184US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

Given Name (first and middle initial [if any]): Sung-Min	Family Name or Surname (last name): Park			
Inventor's Signature:	Date:			
Residence (City and State): Blaine, Minnesota	Country: USA	Citizenship: Republic of Korea		
the above-named Sung-Min Park, and who execute	, 2010, before me personally appeared ited 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]): David E.	Family Name or Surname (I Manahan	last name):		
Inventor's Signature:	Date:			
Residence (City and State): St. Paul, Minnesota	Country: USA	Citizenship: United States of America		
STATE OF MINNESOTA       )         )       ss.         COUNTY OF)       )         On this day of, 2010, before me personally appeared         the above-named David E. Manahan, and who executed the foregoing instrument, as said person's free         act and deed, on the day and year aforesaid.				
(Seal)	Notary Public			

 Page 4 of 5
 Attorney Docket No.:
 P0036387.01/1111-184US01

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

Given Name (first and middle initial [if any]): Jonathan	Family Name or Surname (I Edmonson	ily Name or Surname (last name): monson	
Inventor's Signature:	Date:		
Residence (City and State): Blaine, Minnesota			
STATE OF MINNESOTA ) ) ss. COUNTY OF) On thisday of the above-named Jonathan Edmonson, and who ex	, 2010, befor xecuted the foregoing inst	e me personally appeared rument, 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):	
Ben W.	Herberg		
Inventor's Signature:	Date:		
Residence (City and State): Andover, Minnesota	Country: USA	Citizenship: United States of America	
STATE OF MINNESOTA ) ) ss. COUNTY OF) On this day of the above-named Ben W. Herberg, and who exect and deed, on the day and year aforesaid. (Seal)	ated the foregoing instrum	re me personally appeared lent, as said person's free act	
	Notary Public		

.Page 5 of 5 Attorney Docket No.: P0036387.01/1111-184US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

RECORDED: 08/23/2010