05/13/2019 505472024

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYUN J. YOON	04/12/2017
WADE M. DEMMER	04/13/2017
MATTHEW J. HOFFMAN	04/12/2017
ROBERT A. BETZOLD	04/13/2017
JONATHAN D. EDMONSON	04/12/2017
MICHAEL L. ELLINGSON	04/13/2017
BEN W. HERBERG	04/13/2017
JULIANA E. PRONOVICI	04/13/2017
JAMES D. REINKE	04/12/2017
TODD J. SHELDON	04/13/2017
PAUL R. SOLHEIM	04/13/2017

RECEIVING PARTY DATA

Name:	MEDTRONIC, INC. (CVG)	
Street Address:	8200 CORAL SEA STREET NE.	
Internal Address:	MS: MVC22	
City:	MINNEAPOLIS	
State/Country:	MINNESOTA	
Postal Code:	55112	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16409921

CORRESPONDENCE DATA

(651)367-0471 Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 763-526-0929

Email: madonna.schroeder@medtronic.com

Correspondent Name: MICHAEL J. OSTROM

Address Line 1: 8200 CORAL SEA STREET NE.

Address Line 2: MS: MVC22

PATENT -

REEL: 049153 FRAME: 0153 505472024

Address Line 4: MINNEAPOLIS, MINNESOTA 55112		
ATTORNEY DOCKET NUMBER: C00011584.US01DIV		
NAME OF SUBMITTER:	MADONNA M. SCHROEDER	
SIGNATURE:	/Madonna M. Schroeder/	
DATE SIGNED:	05/13/2019	

Total Attachments: 12

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PATENT REEL: 049153 FRAME: 0154

Attomey Docket No.: C000011584.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

METHODS AND IMPLANTABLE

METHODS AND IMPLANTABLE MEDICAL SYSTEMS THAT IMPLEMENT EXPOSURE MODES OF THERAPY THAT ALLOW FOR CONTINUED OPERATION DURING EXPOSURE TO A MAGNETIC DISTURBANCE
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. 62/323,560; filed on April 15, 2016;
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 naving a principle place of business at <u>710 Medtronic Parkway N.E.</u> , <u>Minneapolis</u> , <u>Minnesota 55432-5604</u> , 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 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

Assignment

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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.

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]): Hyun J.	ny]): Family Name or Surname (last name): Yoon		
Inventor's Signature:	Date:	4-12-	2017
City and State: Vadnais Heights, MN	Count USA	ry:	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this 12 day of April 2017, 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) MOLLY CHLEBEC Notary Public-Minnesota My Commission Expires Jan 31, 20	K a ze i Notan	Wolly Cule y Public	beck

Given Name (first and middle initial [if any]): Wade M.	Family Name or Surname (last name): Demmer		
Inventor's Signature:	Date: 13 - Apr	- 2017	
Residence (City and State):	Country:	Citizenship:	
Coon Rapids, MN	USA	US	
STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this day of April 2017, before me personally appeared the above-named, and who executed the foregoing instrument, as said person's free act and dead, on the day and year aforesaid. (Seal) MADONNA M. SCHROEDER Notary Public State of Minnesota My Commission Expires January 31, 2020 Notary Public			

Given Name (first and middle initial [if any]): Matthew J.	Family Name or Surname (last name): Hoffman		
Inventor's Signature:	Date: 4-12-701	7	
Residence (City and State): St. Paul, MN	Country: USA	Citizenship: US	
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this 125 day of April 2017, 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) MOLLY CHLEBECI Notary Public-Minnesote My Commission Expires Jan 31, 20	K Wolly Will	ibech	

REEL: 049153 FRAME: 0158

Given Name (first and middle initial [if any]): Robert A.	Family Name or Surname (last name): Betzold		
Inventor's dignature:	Date: 4/13	12017	
Residence (City and State):	Country:	Citizenship:	
Fridley, MN	USA	US	
STATE OF MINNESOTA) SS. COUNTY OF MSEY On this day of April 2017, before instrument, as said person's free act and deed on MADONNA M. SCHROEDER Notary Public State of Minnesota My Commission Expires January 31, 2020	the day and year aforesaid.	e-named , and who executed the foregoing	

Given Name (first and middle initial [if any]): Jonathan D.	Family Name or Surname (last name): Edmonson		
Inventor's Signature:	Date: 4/12/1	7	
Residence (City and State): Blaine, MN	Country: USA	Citizenship: US	
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this 2 ^{tv} day of April 2017, 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) MOLLY CHLEBEC Notary Public-Minneso My Commission Expires Jan 31, 2	K Nolly () Notary Public	libech	

Given Name (first and middle initial [if any]): Michael L.	Family Name or Surname (las Ellingson	st name):	
Inventor's Signature: -NV Ellin	Date: 04~1	3-2017	
Residence (City and State): St. Louis Park, MN	Country: USA	Citizenship: US	
STATE OF MINNESOTA) STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this day of April 2017, 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) MADONNA M. SCHROEDER Notary Public State of Minnesota My Commission Expires January 31, 2020 Notary Public			

Given Name (first and middle initial [if any]): Ben W.	Family Name or Surname (last name): Herberg			
Inventor's Signature:	Date:			
Residence (City and State): Andover, MN	Country: USA	Citizenship; US		
STATE OF MINNESOTA) ss. COUNTY OF Algarity On this				
(Scal) LINDA MARIE SKIBA Notary Public Minnesota My Comm. Expires	ZALAZ Notary Public	are Shia		

Given Name (first and middle initial [if any]): Juliana E.	Family Name or Surname (last name): Pronovici				
Inventor's Signature:	Date: 4/13/2	017			
Residence (City and State):	Country:	Citizenship:			
New Hope, MN	USA	US			
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this day of April 2017, 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) MADONNA M. SCHROEDER Notary Public State of Minnesota My Commission Expires Jonuary 31, 2020	" Bluca				

Given Name (first and middle initial [if any]): James D.	Family Name or Sumame (last name): Reinke			
Inventor's Signature: Achael Rende		Date: 4/12/2	<i>⊂</i> 1 7	
Residence (City and State):		Country:	Citizenship:	
Maple Grove, MN		USA	US	
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this 2 day of April 2017, 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) MOLLY CHLEBECK Notary Public-Minnesota Notary Public Notary Public				

Assignment

Given Name (first and middle initial [if any]): Todd J.	Family Name or Surname (last name): Sheldon			
Inventor's Signature	Date: 13 - Apr - 2	0/7		
Residence (City and State):	Country: A	Citizenship:		
North Oaks, MN	USA	US		
STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this				

Given Name (first and middle initial [if any]): Paul R.	Family Name or Surname (last name): Solheim			
Inventor's Signature:	Date: 4//(3/	//7		
Residence (City and State):	Country:	Citizenship:		
Blaine, MN	USA	US		
STATE OF MINNESOTA) 55. COUNTY OF RAMSEY) On this day of April 2017, 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) MADONNA M. SCHROEDER Notary Public State of Minnesote My Commission Expires Notary Public				

RECORDED: 05/13/2019

REEL: 049153 FRAME: 0166