11/16/2017 504645615

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4692335

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HAILIANG ZHAO	01/21/2016
ERIK J. HOVLAND	01/21/2016

RECEIVING PARTY DATA

Name:	MEDTRONIC, INC.	
Street Address:	710 MEDTRONIC PARKWAY N.E.	
City:	MINNEAPOLIS	
State/Country:	MINNESOTA	
Postal Code:	55432-5604	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15666802

CORRESPONDENCE DATA

Fax Number: (612)305-1228

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: 6123051220

Email: kdahlquist@mrgs.com Correspondent Name: VINCENT L. PHAM Address Line 1: 111 THIRD AVE S

Address Line 2: SUITE 350

Address Line 4: MINNEAPOLIS, MINNESOTA 55401

ATTORNEY DOCKET NUMBER:	C00007143.USC3
NAME OF SUBMITTER:	VINCENT L. PHAM
SIGNATURE:	/Vincent L. Pham/
DATE SIGNED:	11/16/2017

Total Attachments: 3

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> **PATENT** REEL: 044150 FRAME: 0293 504645615

Attorney Docket No.: C00007143.USUI

(134.08760101)

ASSIGNMENT OF APPLICATION(S)

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

	POWER TERMINAL FOR IMPLANTABLE 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;
	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, filed on;
	which application is identified as PCT International Patent Application No; filed;
refe Uni	Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota ring a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereina erred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for ited States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may need 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 Attorney Docket No.: C00807143.USU1 Medtronic, Inc., 710 Medtronic Parkway, Minnespolis, 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]): Hailiang	Family Nat Zhao	me or Surname (la	ast name):	
Inventor's Signature:	Lew	Date: ≥/~(Jan ?	2016
City and State: Maple Grove, Minnesota	5	Country: USA		Citizenship: US
STATE OF MINNESOTA) SS. COUNTY OF ANOKA On this 2 day of 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				

Given Name (first and middle initial [if any]): Erik J.	Family Name or Surname (last name): Hovland		
Inventor's Signature:	Date: 2 - JAN	-2016	
Residence (City and State): Minnetonka, Minnesota	Country: USA	Citizenship: US	
STATE OF MINNESOTA) S5. COUNTY OF ANOKA) On this 215 day of Caraca Caraca Hovland, Caraca Caraca III.A JO LOSII Notary Public State of Minnesots My Commission Expires January 31, 2020	gga, as said person's free act and	appeared the above-named <u>Erik I.</u> deed, on the day and year aforesaid.	

Assignment

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