504689619 12/15/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4736341 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NATHANIEL R. LAU	12/13/2017
CHRISTOPHER BARDEN	12/13/2017
JESSICA SACKS	12/13/2017
WILLIAM X. SIOPES	12/13/2017

RECEIVING PARTY DATA

Name:	MEDTRONIC ADVANCED ENERGY LLC
Street Address:	710 MEDTRONIC PARKWAY, NE
Internal Address:	MS: LC340
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15841790

CORRESPONDENCE DATA

Fax Number: (954)828-9122

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: 954-828-1488

Email: PTOMAIL@CWIPLAW.COM

Correspondent Name: JOHN CHRISTOPHER

Address Line 1: CHRISTOPHER & WEISBERG, P.A.

Address Line 2: 1232 N. UNIVERSITY DRIVE
Address Line 4: PLANTATION, FLORIDA 33322

ATTORNEY DOCKET NUMBER: 21819E-485U

NAME OF SUBMITTER: JOHN CHRISTOPHER

SIGNATURE: /John Christopher/

DATE SIGNED: 12/15/2017

Total Attachments: 5

PATENT REEL: 044404 FRAME: 0748

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PATENT REEL: 044404 FRAME: 0749

Attorney Docket No.: 21819E-485U-C00014854.USU2

ASSIGNMENT OF APPLICATION

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

]
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. ; filed on ;	
which application is identified as PCT International Patent Application No.; filed;	
Whereas, MEDTRONIC ADVANCED ENERGY LLC. a corporation organized and existing under the law	s of
the State of Minnesota and having a principal place of business at 710 Medtronic Parkway, Minneapolis, Minnesota berging to as "Comparation" is decirated to as "Comparation".	<u>iota</u>
55432, hereinafter referred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to invention for the United States and for all foreign countries and in and to appropriate the United States and for all foreign countries and in and to appropriate the United States and for all foreign countries and in and to appropriate the United States and for all foreign countries and in and to appropriate the United States and for all foreign countries and in and to appropriate the united States and for all foreign countries and in and to appropriate the United States and for all foreign countries and in and to appropriate the united States and for all foreign countries and in and to appropriate the united States and for all foreign countries and in an all foreign countries and all foreign countries and the united States and are all the united States and the united States are all the united States and the united States are all the united States a	aid
invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Pa which may be granted therefore;	ent

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 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

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Medtronic Advanced Energy LLC – 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 <u>Medtronic Advanced Energy LLC</u>, 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]): Nathanicl R.	Family Name or Surname (last name): LAU		
Inventor's Signature: Nathaniel Leu	Date: 13-DEC-2017		
Residence (City and State): Dover, NH	Country: US	Citizenship: US	
STATE OF) NEW Hampshire) ss.		-	
On this 18 day of December 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.			
LAURRIE ANNE MALIZIA, Notary Public State of New Hampehire My Commission Express January 13, 2021			
(Seal)	Notary Public LAUTCHE H	nne Malizia	
,	13-Dec-	2017	

Given Name (first and middle initial [if any]): Christopher	Family Name or Surname (last name): BARDEN		
Inventor's Signature:	Date: 13 - DEC - 2017		
Residence (City and State) Acton, MA	Country: US	Citizenship: US	
STATE OF On this 13 day of December and who executed the foregoing instrument, as said person's	, <i>201</i> 7, before me perso	nally appeared the above-named, and year aforesaid.	
(Seal) My Commission Expires January 13, 2021 Notary Public Notary Public Notary Public Notary Public AUSCIE Home Valide			No tau

REEL: 044404 FRAME: 0752

Given Name (first and middle initial [if any]): Jessica	Family Name or Surname (last name): SACKS	
Inventor's Signature:	Date: 13 Dec 2017	
Residence (City and State): Lynnfield, MA	Country: US	Citizenship: US
STATE OF) NEW Hampshire) ss. COUNTY OF On this 13 day of December and who executed the foregoing instrument, as said person	2017, before me persons free act and deed, on the day	onally appeared the above-named, and year aforesaid.
(Seal) LAURRIE ANNE MALIZIA, Notary Public State of New Hampehire My Commission Expires January 13, 2021 Author Grant Public Laurrie Anne Malizia		
	13- Dec-20	7

Given Name (first and middle initial [if any]): William X.	Family Name or Surname (last name): SIOPES		
Inventor's Signature:	Date: 13 DEC2Ø17		
Residence (City and State): Tyngsboro, MA	Country: US	Citizenship: US	
STATE OF DEW Hampshire COUNTY OF On this 13 day of December , 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. LAURRIE ANNE MALIZIA, Notary Public State of New Hampshire My Commission Expires January 13, 2021 Autril Anne Malizia Notary Public Laurrie Anne Malizia			
	13-20	2-2017	

Assignment

RECORDED: 12/15/2017

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