505155146 10/23/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5201913

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEVEN CHRISTENSON	10/23/2018
TOUBY DREW	10/23/2018
JAMES M. HAASE	10/23/2018
SCOTT A. SARKINEN	10/23/2018

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:	16168358

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	4944.342US01
NAME OF SUBMITTER:	SAWYER L. HENNLICH
SIGNATURE:	/Sawyer L. Hennlich/
DATE SIGNED:	10/23/2018

Total Attachments: 5

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> PATENT REEL: 047281 FRAME: 0519

Attorney Docket No.: 4944.342US01 (C00019364.US01)

ASSIGNMENT OF APPLICATION(S)

NEEDLE INSERTION RESPONSIVE SYSTEM	
for which an application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provisional Application for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a United States Patent or a U.S. Provision for a U.S. Provision for a U.S. Provision for a U.	ication is being filed
for which an application for a United States Patent identified as U.S. No;	Patent Application
for which an application for a U.S. Provisional Application No; wa	s filed on;
for which above application claims priority to U.S. Provisional Patent Application No;	
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 tand having a principal place of business at <u>710 Medtronic Parkway N.E., Minneapolis, M</u>	<u>linnesota 55432-560</u> 4
nereinafter referred to as "Corporation," is desirous of acquiring the entire right, title and not not to any and all not all	
Letters Patent which may be granted therefore;	ioreign and domest

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, which include the right to claim priority based on the filing date of said application(s), 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;

Assignment

Page 1 of 5 Attorney Docket No.: 4944,342US01 (C00019364,US01) Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

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.

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]): Steven	Family Name or Surname Christenson	(last name):
Inventor's Signature:	Date: /7/23//8	
City and State: Minneapolis, MN	Country: USA	Citizenship: US

PATENT PATENT: 0521

Given Name (first and middle initial [if any]):	Family Name or Surname (last name):	
Touby	Drew	
Inventor's Signature:	Date: 23 Oct 2이8	
City and State:	Country:	Citizenship:
Minneapolis, MN	USA	US

Given Name (first and middle initial [if any]):	Family Name or Surname (last name):		
James M.	Haase		
Inventor's Signature!	Date: 23 ので2 2018		
City and State: Minneapolis, MN	Country: USA	Citizenship: US	

Given Name (first and middle initial [if any]): Scott A.	Family Name or Surname (la Sarkinen	Family Name or Surname (last name): Sarkinen	
Inventor 5 Signature	Date:		
City and State: Minneapolis, MN	Country: USA	Citizenship: US	

Assignment

Attorney Docket No.: 4944.342US01 (C00019364.US01)

Page 5 of 5 Attorney Dr Medtronic, Inc., 710 Medtronic Parkwey, Minneapolis, MN 55432

RECORDED: 10/23/2018