504851789 04/04/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEVIN R. SEIFERT	04/02/2018
VANIA LEE	03/29/2018
LINDA L. FRANKE	04/02/2018
LONNIE D. RONNING	04/02/2018
DINA L. WILLIAMS	04/02/2018
MICHAEL D. EGGEN	04/03/2018
CARLA C. PFEIFFER	04/02/2018

RECEIVING PARTY DATA

Name:	MEDTRONIC, INC.		
Street Address:	Address: 710 MEDTRONIC PARKWAY NE.		
Internal Address: MS: LC340 LEGAL PATENTS			
City: MINNEAPOLIS			
State/Country:	MINNESOTA		
Postal Code:	55432		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15940259

CORRESPONDENCE DATA

Fax Number: (651)367-0471

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: 763-526-3873

Email: madonna.schroeder@medtronic.com

Correspondent Name: DAVID F. PRIEM

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Address Line 2: MS: MVC22

Address Line 4: MINNEAPOLIS, MINNESOTA 55432

ATTORNEY DOCKET NUMBER:	C00013558.USU3
NAME OF SUBMITTER:	MADONNA M. SCHROEDER
SIGNATURE:	/Madonna M. Schroeder/

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DATE SIGNED:	04/04/2018	
Total Attachments: 5		
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PATENT REEL: 045432 FRAME: 0176

Attorney Docket No.: C00013558.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

	INTERVENTIONAL MEDICAL SYSTEMS AND ASSOCIATED ASSEMBLIES
	for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
\boxtimes	for which an application for a United States Patent identified as U.S. Patent Application No.15/940,259; was filed on March 29, 2018.
	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. 62/479,034; filed on arch 30, 2017;
\boxtimes	for which above application claims priority to U.S. Provisional Patent Application No. 62/574,424; filed on
Oc	tober 19, 2017;
	which application is identified as PCT International Patent Application No.; filed;
	Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and

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 55432-5604</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 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

Assignment

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

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]):	Family Name or Surname (last name):				
Kevin R. SEIFERT					
Inventor Signature;		Date:	×		
1hadel	~~~~	02 At	ML 2018		
City and State:		Country:	Citizenship:		
Forest Lake, Minnesota		US	US		
STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this day of Mul Kevin R. SEIFERT, and who executed the foregone aforesaid.	oing instrum	, 2018 befo	ore me personally appeared the above-named n's free act and deed, on the day and year		
(Seal) MADONNA M. SCHROEDER Notary Public State of Minnesote My Commission Expires January 31, 2020		Notary Public	Bluck		
Given Name (first and middle initial [if any]):	Family N	ame or Surname (disct name):		
Vania	LEE	ance or cumume t	(mot marro).		
Inventor's Signature:		Date:			
Varte			rch 2018		
Residence (City and State):		Country:	Citizenship:		
Circle Pines, Minnesota		US	US		
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY)		<u>Lanian</u>			

Given Name (first and middle initial [if any]): Linda L.	Family ? FRANI	Name or Surname (la	ast name):	
Inventor's Menature:		Date:	4-02-2018	
Residence (City and State): Blaine, Minnesota		Country: US	Citizenship: US	
STATE OF MINNESOTA) On this day of Linda L. FRANKE, and who executed the forego	oing instrun	JOIS, befor	e me personally appeared the above-named sfree act and deed, on the day and year	
aforesaid. (Seal) MADONNA M. SCHROEDER Notary Public State of Minnesota My Commission Expires January 31, 2020	g distributions	Notary Public	Bauch	
Given Name (first and middle initial [if any]): Lonnie D.	arne or Surname (last name): NG			
Inventor's Signature: Fornce D. Lonnin	~- <u>~</u>	Date: 4//2//8		
Residence (City and State): Coon Rapids, Minnesota	Ü	Country: US	Citizenship: US	
STATE OF MINNESOTA) On this day of Lonnie D. RONNING, and who executed the for aforesaid. MADONNA M. SCHROEI Notary Public State of Minnesora	egoing inst	, 2018, befor rument, as said perso	re me personally appeared the above-named on's free act and deed, on the day and year	

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Given Name (first and middle initial [if any]): Dina L.	Family N WILLIA	ame or Surname (la \MS	ast name):	
Inventor Signature:		Date: 02 f	IPK 18	
Residence (City and State): Andover, Minnesota		Country: US		Citizenship: US
STATE OF MINNESOTA) SS. COUNTY OF RAMSEY) On this day of Dina WILLIAMS, and who executed the foregoin aforesaid. (Seal) MADONNA M. SCHROEDER Notary Public State of Minnesota My Commission Expires January 31, 2020	g instrumer	.2018, befor nt, as safd person's Notary Public	re me person free act and	nally appeared the above-named deed, on the day and year
Given Name (first and middle initial [if any]): Michael D.	Family N EGGEN	ame or Surname (l	ast name):	
Inventor's Signature	3	Date: 3 Apr	211	
Residence (City and State): Chisago City, Minnesota		Country: US		Citizenship: US
STATE OF MINNESOTA)) 55. COUNTY OF RAMSEY) On this				

Notary Public

(Seal)

Given Name (first and middle initial [if any]): Family Name or Surname (last name): PFEIFFER			
Inventor's Signature:	Date:		
LIVUL C. VANA	02 APR 18		
Residence (City and State):	Country: Citizenship:		
Anoka, Minnesota	US		
STATE OF MINNESOTA)) ss. COUNTY OF RAMSEY) On this day of Audion of Management of Management of Management of Minnesota My Commission Expires January 31, 2020	1 /X///	: above-named ind year	

Assignment

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Attorney Docket No./, C00013558.USU3

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RECORDED: 04/04/2018