505579875 07/19/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5626674

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREA ASLESON	05/21/2019
MICHAEL P. CAMPBELL	06/17/2019
KEITH D. ANDERSON	05/21/2019
TERESA A. WHITMAN	06/27/2019
BRIDGET A. PORTWAY	05/20/2019

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:	16375486	

CORRESPONDENCE DATA

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: (305) 364-1533

Email: magali.martinez@medtronic.com

Correspondent Name: MEDTRONIC, INC.

Address Line 1: 14420 NW 60TH AVENUE

Address Line 2: MAGALI MARTINEZ

Address Line 4: MIAMI LAKES, FLORIDA 33014

ATTORNEY DOCKET NUMBER:	C00019453.US01
NAME OF SUBMITTER:	SEAN J. EDMAN
SIGNATURE:	/Sean J. Edman/
DATE SIGNED:	07/19/2019
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Total Attachments: 9

PATENT REEL: 049799 FRAME: 0448

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PATENT REEL: 049799 FRAME: 0449

Attorney Docket No.: C00019453.US01 - 21819D-530U

ASSIGNMENT OF APPLICATION(S)

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

	CANNULA DELIVERY CATHETER AND PROCEDURE METHOD			
	for which an application for a United States Patent or a U.S. Provisional A contemporaneously herewith;	application is	being	filed
\boxtimes	for which an application for a United States Patent identified as U.S. Patent Application on April 04, 2019;	1 No. <u>16/37548</u>	8 <u>6;</u> was	filed
	for which an application for a U.S. Provisional Application No;	was filed on _	And the second s	your personal super
	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 _	ri marianisti arteiratona	<u>.</u> ;
	Whereas Meditronic Inc. a comporation organized and existing under the laws of	the State of M	Tinn on o	** **

Whereas, <u>Medtronic, Inc.</u>, a corporation organized and existing under the laws of the State of Minnesota and having a principal 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, 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 3

Attorney Docket No.: C00019453.US01 - 21819D-530U

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.

Andrea	Family Name or Surname (last name): ASLESON		
Inventor's Signature:	Date: 21 May 20 (9		
City and State: Maple Grove, MN	Country: USA	Citizenship: U.S.	
Given Name (first and middle initial [if any]): Michael P.	Family Name or Surname (la CAMPBELL	st name):	
Inventor's Signature:	Date:		
City and State:	Country:	Citizenship:	
Blaine, MN	USA	U.S.	
Given Name (first and middle initial [if any]): Teresa A.	Family Name or Surname (last name): WHITMAN		
Inventor's Signature:	Date:		
City and State:	Country:	Citizenship:	
Dayton, MN	USA	U.S.	

Given Name (first and middle initial [if any]): Keith D.	Family Name or Surname (last name): ANDERSON	
Inventor's Signature:	Date:	
City and State: Minneapolis, MN	Country: USA	Citizenship: U.S.

Given Name (first and middle initial [if any]): Bridget A.	Family Name or Surname (last name): PORTWAY	
Inventor's Signature:	Date:	
City and State: White Bear Township	Country: USA	Citizenship: U.S.

^{**}Last Page**

Attorney Docket No.: C00019453.US01 - 21819D-530U

ASSIGNMENT OF APPLICATION(S)

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

CANNULA DELIVERY CATHETER AND PROCEDURE METHOD
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. <u>16/375486</u> ; was filed on <u>April 04, 2019</u> ;
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, <u>Medtronic</u> , <u>Inc.</u> , a corporation organized and existing under the laws of the State of Minnesota and having a principal 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, 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 3 Attorney Docket No.: C00019453.US01 - 21819D-530U

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.

Family Name or Surname (last name):

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]):

Andrea	ASSESON		
Inventor's Signature:	Date:		
City and State: Maple Grove, MN	Country: USA	Citizenship: U.S.	
Given Name (first and middle initial [if any]): Michael P.	Family Name or Su	rname (last name):	
Inventor's Signature: Michael P Campbell	Date: 17 Jine 2019		
City and State: Blaine, MN	Country: USA	Citizenship: U.S.	
	-		_
Given Name (first and middle initial [if any]): Teresa A.	Family Name or Su WHITMAN	rname (last name):	
Inventor's Signature:	Date:		
City and State: Dayton, MN	Country: USA	Citizenship: U.S.	

Given Name (first and middle initial [if any]): Keith D.	Family Name or Surname (last name): ANDERSON	
Inventor's Signature:	Date: 21MAY2019	
City and State: Minneapolis, MN	Country: USA	Citizenship: U.S.

Given Name (first and middle initial [if any]): Bridget A.	Family Name or Surname (last name): PORTWAY		
Inventor's Signature:	Date:		
City and State: White Bear Township	Country: USA	Citizenship: U.S.	

^{**}Last Page**

Attorney Docket No.: C00019453.US01 - 21819D-530U

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

CANNULA DELIVERY CATHETER AND PROCEDURE METHOD		
for which an application for a United States Patent or a U.S. Provisional contemporaneously herewith;	Application is being filed	
for which an application for a United States Patent identified as U.S. Patent Applica on April 04, 2019;	tion No. <u>16/375486</u> ; was filed	
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 filed on;	No	
which application is identified as PCT International Patent Application No.	; filed;	
Whereas, Medtronic, Inc., a corporation organized and existing under the laws having a principal place of business at 710 Medtronic Parkway N.F., Minneapolis, Min		

Whereas, <u>Medtronic, Inc.</u>, a corporation organized and existing under the laws of the State of Minnesota and having a principal 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, 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;

Attorney Docket No.: C00019453.US01 - 21819D-530U

PATENT REEL: 049799 FRAME: 0456 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]): Andrea	Family Name or Surname (last name): ASLESON		
Inventor's Signature:	Date:		
City and State: Maple Grove, MN	Country: USA	Citizenship: U.S.	
Given Name (first and middle initial [if any]): Michael P.	Family Name or Surname (last name): CAMPBELL		
Inventor's Signature:	Date:		
City and State: Blaine, MN	Country: USA	Citizenship: U.S.	
Given Name (first and middle initial [if any]): Teresa A.	Family Name or Surname (last name): WHITMAN		
Inventor's Signature: M. Whid	Date: 27 June 19		
City and State: Dayton, MN	Country: USA	Citizenship: U.S.	

Attorney Docket No.: C00019453.US01 - 21819D-530U

Given Name (first and middle initial [if any]): Keith D.	Family Name or Surname (last name): ANDERSON	
Inventor's Signature:	Date:	
City and State: Minneapolis, MN	Country: USA	Citizenship: U.S.

Given Name (first and middle initial [if any]): Bridget A.	Family Name or Surname (last name): PORTWAY		
But Sua Partway	Date: 5/20/19		
City and State: White Bear Township	Country: USA	Citizenship: U.S.	

Assignment

RECORDED: 07/19/2019

Page 3 of 3

Attorney Docket No.: C00019453.US01 - 21819D-530U

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