PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5116679

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DANIEL HAHN	08/22/2018
MOHSEN ASKARINYA	08/22/2018
JAMES K. CARNEY	08/23/2018
PATRICK W. KINZIE	08/23/2018
JENNIFER LORENZ MARCKMANN	08/23/2018
RANDAL C. SCHULHAUSER	08/27/2018
SANTHISAGAR VADDIRAJU	08/23/2018
AKHIL SRINIVASAN	08/23/2018
DAVID PROBST	08/22/2018
ALEJO CHAVEZ GAXIOLA	08/22/2018

RECEIVING PARTY DATA

Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY NE
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432-9924

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16116306

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: 763-526-3539

Email: rs.patents.five@medtronic.com MEDTRONIC, INC. (CVG) Correspondent Name: 8200 CORAL SEA STREET NE. Address Line 1:

Address Line 2: MS: MVC22

Address Line 4: MINNEAPOLIS, MINNESOTA 55432-9924

ATTORNEY DOCKET NUMBER: C017886.USU1/1111-634US01

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NAME OF SUBMITTER:	KAREN SORENSEN
SIGNATURE:	/karen Sorensen/
DATE SIGNED:	08/29/2018

Total Attachments: 44 source=C00017886USU1 ASSIGNMENT#page1.tif source=C00017886USU1 ASSIGNMENT#page2.tif source=C00017886USU1 ASSIGNMENT#page3.tif source=C00017886USU1 ASSIGNMENT#page4.tif source=C00017886USU1 ASSIGNMENT#page5.tif source=C00017886USU1 ASSIGNMENT#page6.tif source=C00017886USU1 ASSIGNMENT#page7.tif source=C00017886USU1 ASSIGNMENT#page8.tif source=C00017886USU1 ASSIGNMENT#page9.tif source=C00017886USU1 ASSIGNMENT#page10.tif source=C00017886USU1 ASSIGNMENT#page11.tif source=C00017886USU1 ASSIGNMENT#page12.tif source=C00017886USU1 ASSIGNMENT#page13.tif source=C00017886USU1 ASSIGNMENT#page14.tif source=C00017886USU1 ASSIGNMENT#page15.tif source=C00017886USU1 ASSIGNMENT#page16.tif source=C00017886USU1 ASSIGNMENT#page17.tif source=C00017886USU1 ASSIGNMENT#page18.tif source=C00017886USU1_ASSIGNMENT#page19.tif source=C00017886USU1 ASSIGNMENT#page20.tif source=C00017886USU1 ASSIGNMENT#page21.tif source=C00017886USU1 ASSIGNMENT#page22.tif source=C00017886USU1 ASSIGNMENT#page23.tif source=C00017886USU1 ASSIGNMENT#page24.tif source=C00017886USU1 ASSIGNMENT#page25.tif source=C00017886USU1 ASSIGNMENT#page26.tif source=C00017886USU1 ASSIGNMENT#page27.tif source=C00017886USU1 ASSIGNMENT#page28.tif source=C00017886USU1 ASSIGNMENT#page29.tif source=C00017886USU1 ASSIGNMENT#page30.tif source=C00017886USU1 ASSIGNMENT#page31.tif source=C00017886USU1 ASSIGNMENT#page32.tif source=C00017886USU1 ASSIGNMENT#page33.tif source=C00017886USU1 ASSIGNMENT#page34.tif source=C00017886USU1 ASSIGNMENT#page35.tif source=C00017886USU1_ASSIGNMENT#page36.tif source=C00017886USU1 ASSIGNMENT#page37.tif source=C00017886USU1 ASSIGNMENT#page38.tif source=C00017886USU1 ASSIGNMENT#page39.tif source=C00017886USU1_ASSIGNMENT#page40.tif source=C00017886USU1 ASSIGNMENT#page41.tif source=C00017886USU1 ASSIGNMENT#page42.tif source=C00017886USU1 ASSIGNMENT#page43.tif

> PATENT REEL: 046974 FRAME: 0742

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PATENT REEL: 046974 FRAME: 0743

ASSIGNMENT OF APPLICATION(S)

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

ELECTROCHEMICAL SENSOR INCLUDING MULTIPLE WORK ELECTRODES AND COMMON

REFERENCE ELECTRODE
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, Inc., a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, 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

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;

Page 1 of 11 Attorney Docket No.: C00017886.USU1/1111-634US01

granted therefore;

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]): Daniel	Family Name or Surname (last name): Hahn		
Inventor's Signature:	Date:	Date:	
City and State: Tempe, Arizona	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): Mohsen	Family Name or St Askarinya	Family Name or Surname (last name): Askarinya		
Inventor's Signature:	Date:			
City and State: Chandler, Arizona	Country: USA	Citizenship: USA		

Given Name (first and middle initial [if any]): James K.	Family Name or Surname (last name): Carney	
Inventor's Signature:	Date: 8/23/	
City and State: Roseville, Minnesota	Country: USA	Citizenship: USA
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Given Name (first and middle initial [if any]): Patrick W.	Family Name or Su Kinzie	Family Name or Surname (last name): Kinzie		
Inventor's Signature:	Date:	Date:		
City and State: Glendale, Arizona	Country: USA	Citizenship: USA		

Given Name (first and middle initial [if any]): Jennifer	Family Name or Surname (last name): Lorenz Marckmann		
Inventor's Signature:	Date:		
City and State: Tempe, Arizona	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): Randal C.	Family Name or Surname (last name): Schulhauser		
Inventor's Signature:	Date:		
City and State: Phoenix, Arizona	Country: USA	Citizenship: CA	

Given Name (first and middle initial [if any]): Santhisagar	Family Name or Surname (last name): Vaddiraju	
Inventor's Signatura:	Date: (23120	18
City and State: Plymouth, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Akhil	Family Name or St Srinivasan	Family Name or Surname (last name): Srinivasan	
Inventor's Signature:	Date:		
City and State: Northridge, California	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): David	Family Name or Surname (last name): Probst		
Inventor's Signature:	Date:	Date:	
City and State: Chandler, Arizona	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): Alejo	Family Name or Surna Chavez Gaxiola	Family Name or Surname (last name): Chavez Gaxiola		
Inventor's Signature:	Date:			
City and State: Tempe, Arizona	Country: USA	Citizenship: MX		

ASSIGNMENT OF APPLICATION(S)

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

ELECTROCHEMICAL SENSOR INCLUDING MULTIPLE WORK ELECTRODES AND COMMON REFERENCE ELECTRODE
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
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 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 11 Attorney Docket No.: C00017886.USU1/1111-634US01 Meditronic, Inc., 710 Meditronic Parkway, Minneapolis, MN 55432

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]): Daniel	Family Name or Surname (last name): Hahn	
Inventor's Signature:	Date: 8/22/2018	
City and State: Tempe, Arizona M. TUSTIN, CA	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Mohsen	Family Name or Surname (last name): Askarinya	
Inventor's Signature:	Date:	
City and State: Chandler, Arizona	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): James K.	Family Name or Surname (last name): Carney	
Inventor's Signature: City and State:	Date:	
Roseville, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Patrick W.	Family Name or Surname (last name): Kinzie		
Inventor's Signature: City and State:	Date:		
Glendale, Arizona	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): Jennifer	Family Name or Surname (last name): Lorenz Marckmann	
Inventor's Signature:	Date:	
City and State: Tempe, Arizona	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Randal C.	Family Name or Surname (last name): Schulhauser	
Inventor's Signature:	Date:	
City and State: Phoenix, Arizona	Country: USA	Citizenship: CA

Given Name (first and middle initial [if any]): Santhisagar	Family Name or Surname (last name): Vaddiraju Date:		
Inventor's Signature:			
City and State: Plymouth, Minnesota	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): Akhil	Family Name or Surname (last name): Srinivasan	
Inventor's Signature: City and State:	Date:	
Northridge, California	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): David	Family Name or Surname (last name): Probst Date:	
Inventor's Signature:		
City and State: Chandler, Arizona	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Alejo	Family Name or Surn Chavez Gaxiola	ame (last name):
Inventor's Signature:	Date:	
City and State: Tempe, Arizona	Country: USA	Citizenship: MX

ASSIGNMENT OF APPLICATION(S)

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

ELECTROCHEMICAL SENSOR INCLUDING MULTIPLE WORK ELECTRODES AND COMMON

REFERENCE ELECTRODE 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. 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 principal place of business at <u>710 Medtronic Parkway N.E.</u>, <u>Minneapolis. 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;

Page 1 of 11 Attorney Docket No.: C00017886.USU1/1111-634US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

Assignment

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]): Daniel	Family Name or Surname (last name): Hahn	
Inventor's Signature:	Date:	
City and State: Tempe, Arizona	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Mohsen	Family Name or Su Askarinya	Family Name or Surname (last name): Askarinya	
Inventor's Signature:	Date:	Date:	
City and State: Chandler, Arizona	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): James K. Inventor's Signature:	Family Name or St Carney	Family Name or Surname (last name): Carney	
	Date:		
City and State: Roseville, Minnesota	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): Patrick W.	Family Name or St Kinzie	Family Name or Surname (last name): Kinzie	
Inventor's Signature:	Date:	Date:	
City and State: Glendale, Arizona	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): Jennifer	Family Name or Surname (last name): Lorenz Marckmann	
Inventor's Signature:	Date:	
City and State: Tempe, Arizona	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Randal C.	Family Name or Surname (last name): Schulhauser	
Inventor's Signature:	Date:	
City and State: Phoenix, Arizona	Country: USA	Citizenship: CA

Given Name (first and middle initial [if any]): Santhisagar	Family Name or Surname (last name): Vaddiraju	
Inventor's Signature:	Date:	
City and State: Plymouth, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Akhil	Family Name or Su Srinivasan	Family Name or Surname (last name): Srinivasan	
Inventor's Signature:	Date: 8/23/18		
City and State: Northridge, California	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): David	Family Name or St Probst	Family Name or Surname (last name): Probst	
Inventor's Signature:	Date:		
City and State: Chandler, Arizona	Country: USA	Citizenship: USA	

Page 10 of 11 Attorney Docket No.: C00017886.USU1/1111-634US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

Given Name (first and middle initial [if any]): Alejo	Family Name or Surname (last name): Chavez Gaxiola	
Inventor's Signature:	Date:	
City and State: Tempe, Arizona	Country: USA	Citizenship: MX

ASSIGNMENT OF APPLICATION(S)

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

	ELECTROCHEMICAL SENSOR INCLUDING MULTIPLE WORK ELECTRODES AND COMMON REFERENCE ELECTRODE		
\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; 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, <u>Medtronic</u>, Inc., 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;

Page 1 of 11 Attorney Docket No.: C00017886.USU1/1111-634US01

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]): Daniel	Family Name or Su Hahn	Family Name or Surname (last name): Hahn	
Inventor's Signature:	Date:	Date:	
City and State: Tempe, Arizona	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): Mohsen	Family Name or Surname (last name): Askarinya		
Inventor's Signature: Mohan A	Date: 8 / z z / z 0 / 8		
City and State: Chandler, Arizona	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): James K.	Family Name or Surname (last name): Carney	
Inventor's Signature:	Date:	
City and State: Roseville, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Patrick W.	Family Name or Surname (last name): Kinzie	
Inventor's Signature:	Date: 23-A46-24	o18 ·
City and State: Glendale, Arizona	Country: USA	Citizenship: USA

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Attorney Docket No.: C00017886.USU1/1111-634US01

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

Given Name (first and middle initial [if any]): Jennifer	Family Name or Sumame (last name): Lorenz Marckmann	
Inventor's Signature	Date: 23AV62018	
City and State: Tempe, Arizona	Country: Citizenship: USA USA	

Page 6 of 11 Attorney Docket No.: C00017886.USU1/1111-634US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

Given Name (first and middle initial [if any]): Randal C.	Family Name or Surname (last name): Schulhauser		
Inventor's Signature:	Date: 27 Ang 2018		
City and State: Phoenix, Arizona	Country: J Citizenship: CA		

Given Name (first and middle initial [if any]): Santhisagar	Family Name or Surname (last name): Vaddiraju	
Inventor's Signature:	Date:	
City and State: Plymouth, Minnesota	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Akhil	Family Name or Surname (last name): Srinivasan		
Inventor's Signature:	Date:	Date:	
City and State: Northridge, California	Country: USA	Citizenship: USA	

Given Name (first and middle initial [if any]): David	Family Name or Surname (last name): Probst	
Inventor's Signature:	Date: 8 (22 / 14	
City and State: Chandler, Arizona	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Alejo	Family Name or Su Chavez Gaxiola	Family Name or Surname (last name): Chavez Gaxiola	
Inventor's Signature: Alejo Chavez Gaziola	Date: 08/22/2018		
City and State: Tempe, Arizona	Country: USA	Citizenship: MX	

Assignment

Page 11 of 11 Attorney Docket No.: C00017886.USU1/1111-634US01 Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN S5432

PATENT REEL: 046974 FRAME: 0787