

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8147001

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DANIEL HAHN	08/27/2018
MOHSEN ASKARINYA	09/10/2018
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	08/27/2018
ALEJO CHAVEZ GAXIOLA	08/27/2018
RECEIVING PARTY DATA	
Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY NE
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432-5604
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18460271
CORRESPONDENCE DATA	
Fax Number:	(651)735-1102
<i>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.</i>	
Phone:	6517351100
Email:	pairedocketing@ssiiplaw.com, rs.patents.two@medtronic.com
Correspondent Name:	SHUMAKER & SIEFFERT, P.A.
Address Line 1:	1625 RADIO DRIVE
Address Line 2:	SUITE 300
Address Line 4:	WOODBURY, MINNESOTA 55125
ATTORNEY DOCKET NUMBER:	C00017886US01CON/1111-650

PATENT

NAME OF SUBMITTER:	ANGELA D. MALIK LUCK
SIGNATURE:	/Angela D. Malik Luck/
DATE SIGNED:	09/01/2023

Total Attachments: 55

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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 granted therefore;

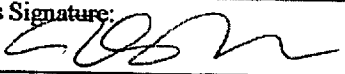
NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest 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;

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]): Daniel	Family Name or Surname (last name): Hahn	
Inventor's Signature: 	Date: 8/27/2018	
City and State: Tustin, California	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:	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:	
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 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:	
City and State: Chandler, Arizona	Country: USA	Citizenship: USA

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)

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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;

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

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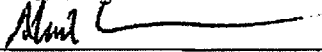
Given Name (first and middle initial [if any]): James K.	Family Name or Surname (last name): Carney	
Inventor's Signature:	Date:	
City and State: Roseville, Minnesota	Country: USA	Citizenship: USA

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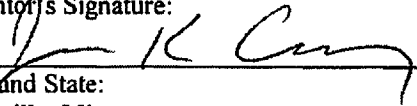
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Inventor's Signature:	Date:	
City and State: Phoenix, Arizona	Country: USA	Citizenship: CA

Given Name (first and middle initial [if any]): Santhisagar		Family Name or Surname (last name): Vaddiraju	
Inventor's Signature: <i>V. Santhisagar</i>		Date: <i>8/23/2018</i>	
City and State: Plymouth, Minnesota		Country: USA	Citizenship: USA

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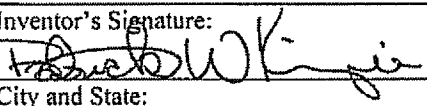
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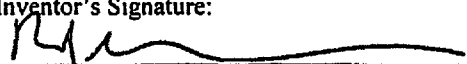
Given Name (first and middle initial [if any]): Daniel	Family Name or Surname (last name): Hahn	
Inventor's Signature:	Date:	
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Inventor's Signature:	Date:	
City and State: Chandler, Arizona	Country: USA	Citizenship: USA

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

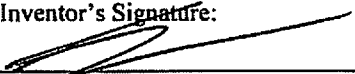
Given Name (first and middle initial [if any]): Patrick W.	Family Name or Surname (last name): Kinzie	
Inventor's Signature: 	Date: 23-AUG-2018	
City and State: Glendale, Arizona	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Jennifer	Family Name or Surname (last name): Lorenz Marckmann	
Inventor's Signature: 	Date: 23 Aug 2018	
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: 27 Aug 2018	
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 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: 8/27/18	
City and State: Chandler, Arizona	Country: USA	Citizenship: USA

Given Name (first and middle initial [if any]): Alejo	Family Name or Surname (last name): Chavez Gaxiola	
Inventor's Signature: <i>Alejo Chavez Gaxiola</i>	Date: 08/27/2018	
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

<p align="center">ELECTROCHEMICAL SENSOR INCLUDING MULTIPLE WORK ELECTRODES AND COMMON REFERENCE ELECTRODE</p>

- ☐ 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. 16/116,346; was filed on **August 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. _____, 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 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;

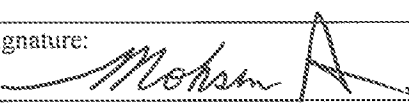
AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above 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;

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

Given Name (first and middle initial [if any]): Mohsen	Family Name or Surname (last name): Askarinya	
Inventor's Signature: 	Date: 9-10-2018	
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:	
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Given Name (first and middle initial [if any]): Patrick W.	Family Name or Surname (last name): Kinzie	
Inventor's Signature:	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 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:	
City and State: Chandler, Arizona	Country: USA	Citizenship: USA

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