

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Thomas E. MEYER</td> <td>03/23/2013</td> </tr> <tr> <td>David B. LURA</td> <td>03/22/2013</td> </tr> <tr> <td>Bryant J. PUDIL</td> <td>03/22/2013</td> </tr> <tr> <td>Martin T. GERBER</td> <td>03/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	Thomas E. MEYER	03/23/2013	David B. LURA	03/22/2013	Bryant J. PUDIL	03/22/2013	Martin T. GERBER	03/22/2013
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David B. LURA	03/22/2013										
Bryant J. PUDIL	03/22/2013										
Martin T. GERBER	03/22/2013										
RECEIVING PARTY DATA											
Name:	Medtronic, Inc.										
Street Address:	710 Medtronic Parkway NE										
Internal Address:	LC 340										
City:	Minneapolis										
State/Country:	MINNESOTA										
Postal Code:	55432										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13757722</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13757722						
Property Type	Number										
Application Number:	13757722										
CORRESPONDENCE DATA											
Fax Number:	7635052530										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	763-505-2523										
Email:	juanita.traufler@medtronic.com										
Correspondent Name:	Juanita I. Traufler										
Address Line 1:	710 Medtronic Parkway NE										
Address Line 2:	LC340										
Address Line 4:	Minneapolis, MINNESOTA 55432										
ATTORNEY DOCKET NUMBER:	C00004928USU1/CO01534.017										
NAME OF SUBMITTER:	Kenneth J. Collier										

CH \$40.00 13757722

Signature:	/Kenneth J. Collier/
Date:	04/12/2013
Total Attachments: 10 source=efs_Assignment_C00004928USU1_041213#page1.tif source=efs_Assignment_C00004928USU1_041213#page2.tif source=efs_Assignment_C00004928USU1_041213#page3.tif source=efs_Assignment_C00004928USU1_041213#page4.tif source=efs_Assignment_C00004928USU1_041213#page5.tif source=efs_Assignment_C00004928USU1_041213#page6.tif source=efs_Assignment_C00004928USU1_041213#page7.tif source=efs_Assignment_C00004928USU1_041213#page8.tif source=efs_Assignment_C00004928USU1_041213#page9.tif source=efs_Assignment_C00004928USU1_041213#page10.tif	

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FEE TRANSMITTAL

Complete if known

FEE TRANSMITTAL		Application Number	13/757,722	
		Filing Date	February 1, 2013	
		First Named Inventor	Meyer et al	
		Examiner Name		
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27	Art Unit	1778 / Confirmation No. 1085		
TOTAL AMOUNT OF PAYMENT	(\$)	40.00	Practitioner Docket No.	C00004928.USU1/MED-29035/US

METHOD OF PAYMENT (check all that apply)

 Check Credit Card Money Order None Other (please identify): _____

 Deposit Account Deposit Account Number: 192546 Deposit Account Name: Medtronic, Inc.

For the above-identified deposit account, the Director is hereby authorized to (check all that apply):

 Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee

 Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 Credit any overpayment of fee(s)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	390	195	620	310	250	125	
Design	250	125	120	60	150	80	
Plant	250	125	380	190	200	100	
Reissue	390	195	620	310	760	380	
Provisional	250	125	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	62	31
Each independent claim over 3 (including Reissues)	250	125
Multiple dependent claims	460	230

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
_____ - 20 or HP = _____	_____ x _____ = _____					
HP = highest number of total claims paid for, if greater than 20.						
_____ Indep. Claims	_____ Extra Claims	_____ Fee (\$)	_____ Fee Paid (\$)			
_____ - 3 or HP = _____	_____ x _____ = _____					
HP = highest number of independent claims paid for, if greater than 3.						

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$320 (\$160 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____	_____ / 50 = _____	_____ (round up to a whole number) x _____		

4. OTHER FEE(S)

Non-English specification, \$130 fee (no small entity discount)

Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, \$400 fee (\$200 small entity)

Other (e.g., late filing surcharge): Assignment Recordation Fee

40.00

SUBMITTED BY

Signature	/Kenneth J. Collier/	Registration No. (Attorney/Agent)	34982	Telephone	763-505-2521
Name (Print/Type)	Kenneth J. Collier	Date	04/12/2013		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-8199 and select option 2.

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

MEYER, Thomas E.

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) March 23, 2013

- Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

2. Name and address of receiving party(ies)

Name: Medtronic, Inc.

Internal Address: LC 340

Street Address: 710 Medtronic Parkway NE

City: Minneapolis

State: Minnesota

Country: US Zip: 55432

Additional name(s) & address(es) attached? Yes No

4. Application or patent number(s):

This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No. (s)

B. Patent No.(s)

13/757,722

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Kenneth J. Collier

Internal Address: LC 340

Street Address: 710 Medtronic Parkway NE

City: Minneapolis

State: Minnesota Zip: 55432

Phone Number: 763-505-2521

Docket Number: C00004928.USU1/CO01534.017

Email Address: ken.collier@medtronic.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

- Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment information

Deposit Account Number 132546

Authorized User Name Kenneth J. Collier

9. Signature: /Kenneth J. Collier/

April 11, 2013

Signature

Date

Kenneth J. Collier

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 7

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

LURA, David B.

Additional name(s) of conveying party(ies) attached? Yes No

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Execution Date(s) March 22, 2013

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RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

PUDIL, Bryant J.

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Medtronic, Inc.

Internal Address: LC 340

Street Address: 710 Medtronic Parkway NE

City: Minneapolis

State: Minnesota

Country: US Zip: 55432

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) March 22, 2013

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RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies) GERBER, Martin T. Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2. Name and address of receiving party(ies) Name: <u>Medtronic, Inc.</u> Internal Address: <u>LC 340</u> Street Address: <u>710 Medtronic Parkway NE</u> City: <u>Minneapolis</u> State: <u>Minnesota</u> Country: <u>US</u> Zip: <u>55432</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance/Execution Date(s): Execution Date(s) <u>March 22, 2013</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____		4. Application or patent number(s): <input type="checkbox"/> This document serves as an Oath/Declaration (37 CFR 1.63). A. Patent Application No. (s) <u>13/757,722</u> B. Patent No. (s) Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	
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9. Signature: /Kenneth J. Collier/ Kenneth J. Collier Name of Person Signing		8. Payment Information Deposit Account Number <u>132546</u> Authorized User Name <u>Kenneth J. Collier</u> Signature _____ Date <u>April 11, 2013</u> Total number of pages including cover sheet, attachments, and documents: <u>7</u>	

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ASSIGNMENT

WHEREAS, Thomas E. Meyer; David B. Lura; Bryant J. Pudil; Martin T. Gerber, are the inventors of SODIUM AND BUFFER SOURCE CARTRIDGES FOR USE IN A MODULAR CONTROLLED COMPLIANT FLOW PATH for which we have executed an application for filing in the United States Patent and Trademark Office preparatory to obtaining Letters Patent of the United States as a NonProvisional patent application on 02/01/2013 as US5N 13/757,722; therefor; and

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 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 therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I 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 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 therefor including my 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 behalf and use and behalf 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;

AND, for the consideration aforesaid, I materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, I am 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 I have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, I 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 or extension of said Letters Patent is lawful and desirable, I, or my 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 hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 23 day of March, 2013.

Thomas E. Meyer
Thomas E. Meyer

STATE OF Minnesota

ss.

COUNTY OF Anoka

On this 23rd day of March, 2013, before me, Juanita I. Trautler, Notary Public, personally appeared Thomas E. Meyer, personally known to me (or provided to me on the basis of satisfactory evidence) to be the person(s) whose name is subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

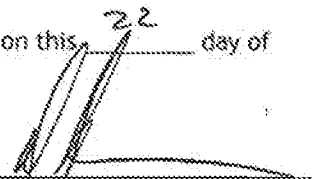
Juanita I. Trautler
Signature of Notary Public
My Commission Expires: Jan. 31, 2015

SEAL:



I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this, 22 day of March, 2013.



David B. Lura

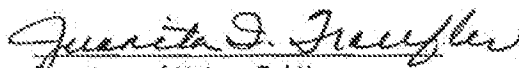
STATE OF Minnesota

ss.

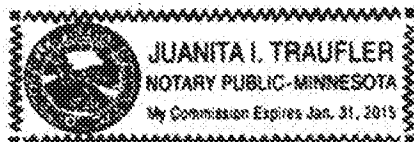
COUNTY OF Anoka

On this 22nd day of March, 2013, before me, Juanita I. Traufler, Notary Public, personally appeared David B. Lura, personally known to me (or provided to me on the basis of satisfactory evidence) to be the person(s) whose name is subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



Signature of Notary Public
My Commission Expires: Jan. 31, 2015

SEAL:



I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 22 day of March, 2013.


Bryant J. Pudil

STATE OF Minnesota

ss.

COUNTY OF Anoka

On this 22nd day of March, 2013, before me, Juanita I. Traufler, Notary Public, personally appeared Bryant J. Pudil, personally known to me (or provided to me on the basis of satisfactory evidence) to be the person(s) whose name is subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



Signature of Notary Public
My Commission Expires: Jan. 31, 2015

SEAL:



I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 22 day of March, 2013.


Martin T. Gerber

STATE OF Minnesota

ss.

COUNTY OF Anoka

On this 22nd day of March, 2013, before me, Juanita I. Traufler Notary Public, personally appeared Martin T. Gerber, personally known to me (or provided to me on the basis of satisfactory evidence) to be the person(s) whose name is subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.


Signature of Notary Public
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SEAL:

