

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT														
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Eric C. Corndorf</td><td>01/27/2009</td></tr> <tr><td>Charles H. Dudding</td><td>01/27/2009</td></tr> <tr><td>Nicholas C. Wine</td><td>01/27/2009</td></tr> <tr><td>George C. Rosar</td><td>01/27/2009</td></tr> <tr><td>Quentin S. Denzene</td><td>01/27/2009</td></tr> <tr><td>Robert S. Wentink</td><td>01/27/2009</td></tr> </tbody> </table>		Name	Execution Date	Eric C. Corndorf	01/27/2009	Charles H. Dudding	01/27/2009	Nicholas C. Wine	01/27/2009	George C. Rosar	01/27/2009	Quentin S. Denzene	01/27/2009	Robert S. Wentink	01/27/2009
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<b>RECEIVING PARTY DATA</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;"><b>Name:</b></td><td>MEDTRONIC, INC.</td></tr> <tr><td><b>Street Address:</b></td><td>710 Medtronic Parkway N.E.</td></tr> <tr><td><b>City:</b></td><td>Mineapolis</td></tr> <tr><td><b>State/Country:</b></td><td>MINNESOTA</td></tr> <tr><td><b>Postal Code:</b></td><td>55432-5640</td></tr> </table>		<b>Name:</b>	MEDTRONIC, INC.	<b>Street Address:</b>	710 Medtronic Parkway N.E.	<b>City:</b>	Mineapolis	<b>State/Country:</b>	MINNESOTA	<b>Postal Code:</b>	55432-5640				
<b>Name:</b>	MEDTRONIC, INC.														
<b>Street Address:</b>	710 Medtronic Parkway N.E.														
<b>City:</b>	Mineapolis														
<b>State/Country:</b>	MINNESOTA														
<b>Postal Code:</b>	55432-5640														
<b>PROPERTY NUMBERS Total: 2</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>61043093</td> </tr> <tr> <td>Application Number:</td> <td>12364432</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	61043093	Application Number:	12364432								
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Application Number:	61043093														
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<b>CORRESPONDENCE DATA</b>															
<p>Fax Number: (763)505-2530  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 763-514-4000        Email: blancheb@gtlaw.com        Correspondent Name: MEDTRONIC, INC.        Address Line 1: 710 Medtronic Parkway N.E.        Address Line 2: Mail Stop LC340        Address Line 4: Mineapolis, MINNESOTA 55432-5640</p>															

CH \$80.00 61043093

**500891124**

**PATENT  
 REEL: 022852 FRAME: 0055**

ATTORNEY DOCKET NUMBER:	P0029944 (011800)
NAME OF SUBMITTER:	Angela Williams
<p>Total Attachments: 8</p> <p>source=MEDTRONICP0029944AssignmentInvToMED#page1.tif</p> <p>source=MEDTRONICP0029944AssignmentInvToMED#page2.tif</p> <p>source=MEDTRONICP0029944AssignmentInvToMED#page3.tif</p> <p>source=MEDTRONICP0029944AssignmentInvToMED#page4.tif</p> <p>source=MEDTRONICP0029944AssignmentInvToMED#page5.tif</p> <p>source=MEDTRONICP0029944AssignmentInvToMED#page6.tif</p> <p>source=MEDTRONICP0029944AssignmentInvToMED#page7.tif</p> <p>source=MEDTRONICP0029944AssignmentInvToMED#page8.tif</p>	

**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)**

Eric C. Corndorf; Charles H. Dudding; Nicholas C. Wine;  
George C. Rosar; Quentin S. Denzene; Robert S. Wentink

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

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

Execution Date(s) January 27, 2009

- ☒ 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: \_\_\_\_\_

Street Address: 710 Medtronic Parkway N.E.

City: Minneapolis

State: Minnesota

Country: USA Zip: 55432-5640

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

**4. Application or patent number(s):**

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

61/043,093  
12/364,432

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: MEDTRONIC, INC.

Internal Address: \_\_\_\_\_

Street Address: 710 Medtronic Parkway N.E.

Mail Stop LC340

City: Minneapolis

State: Minnesota Zip: 55432-5640

Phone Number: 763-514-4000

Fax Number: 763-505-2530

Email Address: blancheb@qtlaw.com

**6. Total number of applications and patents involved:** two

**7. Total fee (37 CFR 1.21(h) & 3.41)** \$ 80.00

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

**8. Payment Information**

Deposit Account Number 50-2638

Authorized User Name Greenberg Traurig LLP

**9. Signature:**

Signature

June 19, 2009

Date

Bradley D. Blanche

Name of Person Signing

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

8

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

**ASSIGNMENT**

WHEREAS, We, Eric C. Corndorf, a citizen of The United States of America, residing at 4933 Russell Ave., S., Minneapolis, Minnesota 55410, Charles H. Dudding, a citizen of the United States of America, residing at 685 River Birch Place, Lino Lakes, Minnesota 55014, Nicholas C. Wine, a citizen of the United States of America, residing at 1760 Meadowoods Trail, Medina, MN 55356, George C. Rosar, a citizen of The United States of America, residing at 111 4th Avenue North, #103, Minneapolis, Minnesota 55401, Quentin S. Denzene, a citizen of The United States of America, residing at 1315 146th Ave. NW, Andover, Minnesota 55304, and Robert S. Wentink, a citizen of The United States of America, residing at 6344 White Owl Drive, Lino Lakes, Minnesota 55014, are the inventors with residence and citizenship as indicated above, have made an invention entitled **LOW POWER MULTIPLE CHANNEL MIXING ARCHITECTURE FOR DETECTING WAKE-UP SIGNALS AND RELATED FALSING PROTECTION ALGORITHM** that is the subject of United States Provisional Application Serial Number 61/043,093, filed April 7, 2008, and United States Utility Application Serial Number ( 12/364,432 ), filed ( February 2, 2009 ), [We hereby authorize the Corporation's representatives to insert the application serial number and filing date of said utility application above in the parentheses when known];

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 55432-5640, 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, 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, our entire right, title and interest in and to said invention and our 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 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 behoof and use and behoof 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 also hereby authorize Corporation and its employees to fill in the serial number and filing date above after this document has been executed;

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 our 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 hereby grant Corporation the right to fill in the serial number and filing date in this document upon their receipt;

ASSIGNMENT

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P0029944.01 (062032-011800)


OC286,338,218 v1 062032-014200

**PATENT****REEL: 022852 FRAME: 0058**

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 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 27 day of January, 2009.

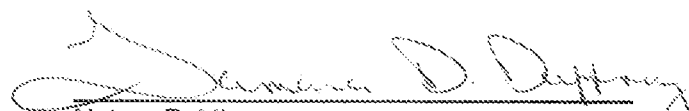
  
Eric C. Comdorf

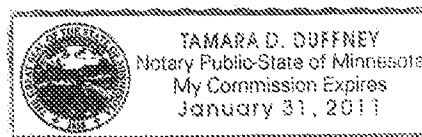
STATE OF MINNESOTA

COUNTY OF Ramsey

On this 27 day of January, 2009, before me personally appeared Eric C. Comdorf, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

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

  
Notary Public



IN WITNESS WHEREOF, I have hereunto set my hand on this 27 day of Jan, 2009.

Charles H. Dudding  
Charles H. Dudding

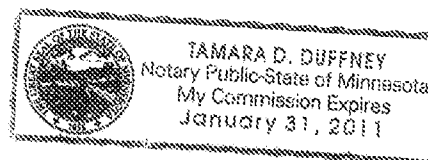
STATE OF MINNESOTA

COUNTY OF Ramsey

On this 27 day of January, 2009, before me personally appeared Charles H. Dudding, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

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

Tamara D. Duffney  
Notary Public



IN WITNESS WHEREOF, I have hereunto set my hand on this 27<sup>th</sup> day of January, 2009.

Nicholas C. Wine  
Nicholas C. Wine

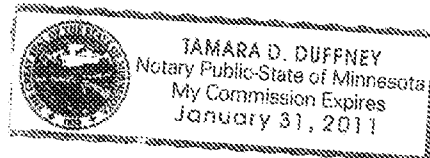
STATE OF MINNESOTA

COUNTY OF Ramsey

On this 27 day of January, 2009, before me personally appeared Nicholas C. Wine, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

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

Tamara D. Duffney  
Notary Public



IN WITNESS WHEREOF, I have hereunto set my hand on this 27 day of January, 2009.

George C. Rosar  
George C. Rosar

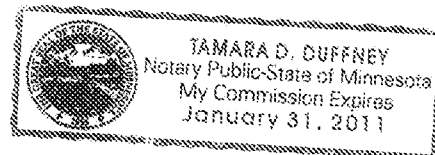
STATE OF MINNESOTA

COUNTY OF Ramsey

On this 27 day of January, 2009, before me personally appeared George C. Rosar, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

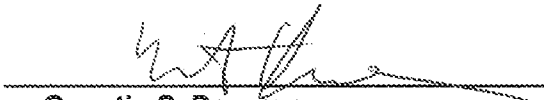
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Tamara D. Duffney  
Notary Public





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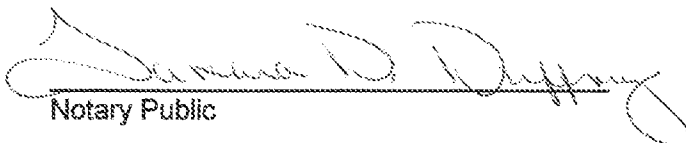
  
Quentin S. Denzene

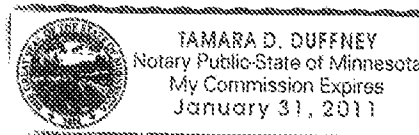
STATE OF MINNESOTA

COUNTY OF Ramsey

On this 27 day of January, 2009, before me personally appeared Quentin S. Denzene, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

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

  
Notary Public



ASSIGNMENT

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P0029944.01 (062032-011800)

OC286,338,218 v1 062032-014200

PATENT

REEL: 022852 FRAME: 0063

IN WITNESS WHEREOF, I have hereunto set my hand on this 27<sup>th</sup> day of January, 2009.

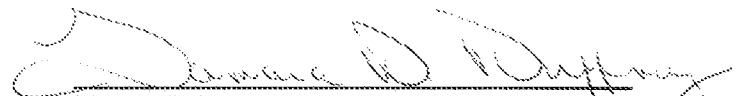
  
Robert S. Wentink

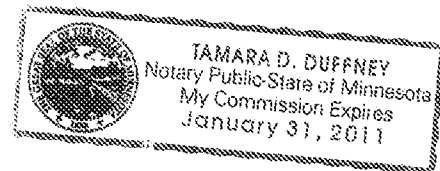
STATE OF MINNESOTA

COUNTY OF Ramsey

On this 27 day of January, 2009, before me personally appeared Robert S. Wentink, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

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

  
Notary Public



ASSIGNMENT

Page 7 of 7

P0029944.01 (062032-011800)

OC286,338,218 v1 062032-014200

RECORDED: 06/19/2009

PATENT  
REEL: 022852 FRAME: 0064