

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Timothy J. Denison	12/07/2007
Joel A. Anderson	11/30/2007
Michael W. Heinks	11/14/2007

RECEIVING PARTY DATA

Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11861939

CORRESPONDENCE DATA

Fax Number: (651)735-1102

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 6517351100

Email: Cygan@ssiplaw.com

Correspondent Name: Shumaker & Sieffert, P.A.

Address Line 1: 1625 Radio Drive, Suite 300

Address Line 4: Woodbury, MINNESOTA 55125

ATTORNEY DOCKET NUMBER:

1023-627US01

NAME OF SUBMITTER:

Michael J. Ostrom

Total Attachments: 9

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PATENT

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Attorney Docket No.: 1023-627US01

ASSIGNMENT

For valuable consideration, we, Timothy J. Denison of 4441 Beard Avenue S., Minneapolis, MN 55410, Joel A. Anderson of 9921 Toledo Drive N., Brooklyn Park, MN 55443 and Michael W. Heinks of 1796 19<sup>th</sup> Terrace, New Brighton, MN 55112, hereby assign to: Medtronic, Inc., having a place of business at: 710 Medtronic Parkway, LC-340, Minneapolis, MN 55432 and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled CHOPPER-STABILIZED ANALOG-TO-DIGITAL CONVERTER, filed September 26, 2007, and assigned U.S. Serial Number 11/861,939; this assignment including said application, any provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other application for any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 7 Dec 2007
  
 Timothy J. Denison

 State of \_\_\_\_\_ )  
   ) ss:  
 County of \_\_\_\_\_ )

On this 7<sup>th</sup> day of December, 2007, before me, Timothy J. Denison  
~~Michelle M. Hill~~ (circled)  
 Notary Public, personally appeared Timothy J. Denison personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are 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.

WITNESS my hand and official seal.



Michelle M. Hill  
 Signature of Notary Public  
 My Commission Expires:

Date: \_\_\_\_\_

Joel A. Anderson

 State of \_\_\_\_\_ )  
   ) ss:  
 County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_  
 Notary Public, personally appeared Joel A. Anderson personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are 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.

WITNESS my hand and official seal.

\_\_\_\_\_  
 Signature of Notary Public  
 My Commission Expires:

Date: \_\_\_\_\_

Michael W. Heinks

State of )  
 ) ss:  
County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_,  
Notary Public, personally appeared Michael W. Heinks personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person(s) whose name is/are 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.

WITNESS my hand and official seal.

Signature of Notary Public  
My Commission Expires:

Attorney Docket No.: 1023-627US01

### ASSIGNMENT

For valuable consideration, we, Timothy J. Denison of 4441 Beard Avenue S., Minneapolis, MN 55410, Joel A. Anderson of 9921 Toledo Drive N., Brooklyn Park, MN 55443 and Michael W. Heinks of 1796 19<sup>th</sup> Terrace, New Brighton, MN 55112, hereby assign to: Medtronic, Inc., having a place of business at: 710 Medtronic Parkway, LC-340, Minneapolis, MN 55432 and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled CHOPPER-STABILIZED ANALOG-TO-DIGITAL CONVERTER, filed September 26, 2007, and assigned U.S. Serial Number 11/861,939; this assignment including said application, any provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other application for any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: \_\_\_\_\_

Timothy J. Denison

State of \_\_\_\_\_ )  
 ) ss:  
 County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_,  
 Notary Public, personally appeared Timothy J. Denison personally known to me (or proved to me on the  
 basis of satisfactory evidence) to be the person(s) whose name is/are 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.

WITNESS my hand and official seal.

\_\_\_\_\_  
 Signature of Notary Public  
 My Commission Expires:

Date: 11-30-07

Joel A. Anderson  
 Joel A. Anderson

State of Minnesota )  
 ) ss:  
 County of Ramsey )

On this 30th day of November, 2007, before me, Molly Chlebeck,  
 Notary Public, personally appeared Joel A. Anderson personally known to me (or proved to me on the  
 basis of satisfactory evidence) to be the person(s) whose name is/are 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.

WITNESS my hand and official seal.



Molly Chlebeck  
 Signature of Notary Public  
 My Commission Expires:

Date: \_\_\_\_\_

Michael W. Heinks

State of \_\_\_\_\_ )  
 ) ss:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_,  
Notary Public, personally appeared Michael W. Heinks personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person(s) whose name is/are 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.

WITNESS my hand and official seal.

Signature of Notary Public  
My Commission Expires:



Attorney Docket No.: 1023-627US01

ASSIGNMENT

For valuable consideration, we, Timothy J. Denison of 4441 Beard Avenue S., Minneapolis, MN 55410, Joel A. Anderson of 9921 Toledo Drive N., Brooklyn Park, MN 55443 and Michael W. Heinks of 1796 19<sup>th</sup> Terrace, New Brighton, MN 55112, hereby assign to: Medtronic, Inc., having a place of business at: 710 Medtronic Parkway, LC-340, Minneapolis, MN 55432 and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled CHOPPER-STABILIZED ANALOG-TO-DIGITAL CONVERTER, filed September 26, 2007, and assigned U.S. Serial Number 11/861,939; this assignment including said application, any provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other application for any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: \_\_\_\_\_

\_\_\_\_\_  
Timothy J. DenisonState of \_\_\_\_\_ )  
 ) ss:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_,  
Notary Public, personally appeared Timothy J. Denison personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person(s) whose name is/are 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.

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of Notary Public  
My Commission Expires:

Date: \_\_\_\_\_

\_\_\_\_\_  
Joel A. AndersonState of \_\_\_\_\_ )  
 ) ss:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_,  
Notary Public, personally appeared Joel A. Anderson personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person(s) whose name is/are 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.

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of Notary Public  
My Commission Expires:

Date: 11-14-2007

Michael W. Heinks  
Michael W. Heinks

State of Minnesota )  
County of Anoka ) ss:

On this 14<sup>th</sup> day of November, 2007, before me, RITA L. ANDERSON  
Notary Public, personally appeared Michael W. Heinks personally known to me (or proved to me on the  
basis of satisfactory evidence) to be the person(s) whose name is/are 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.

WITNESS my hand and official seal.



Rita Anderson 11/14/07  
Signature of Notary Public  
My Commission Expires: 1/31/10