

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3111916

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KURT J CASBY	12/10/2002
PAUL B AAMODT	12/12/2002
FRANISE D BARTLEY	12/18/2002
STEVE M BRUESEHOFF	01/14/2003
DAVID P HAAS	01/13/2003
KARL E HOKANSON	12/10/2002
THOMAS M NUTZMAN	12/11/2002
ANDREW J RIES	11/22/2002
SCOTT J ROBINSON	12/10/2002
RANDY S ROLES	12/11/2002
SONJA K SOMDAHL	01/07/2003
WALTER C SUNDERLAND	01/02/2003
JASON T PAPENFUSS	01/06/2003
WILLIAM J FARRELL	01/06/2003
KIMBERLY A CHAFFIN	12/11/2002

RECEIVING PARTY DATA

Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway
Internal Address:	Mail Stop LC340
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13785113

CORRESPONDENCE DATA

Fax Number: (763)505-2530

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) 526-0932

PATENT

Email: susan.m.nienaber@medtronic.com
Correspondent Name: CAROL F. BARRY
Address Line 1: 710 MEDTRONIC PARKWAY
Address Line 2: MAIL STOP LC340
Address Line 4: MINNEAPOLIS, MINNESOTA 55432

NAME OF SUBMITTER: SUSAN M. NIENABER

SIGNATURE: /Susan M. Nienaber/

DATE SIGNED: 11/18/2014

Total Attachments: 19

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UNITED STATES
PATENT AND
TRADEMARK OFFICE

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JUN 27 2003

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JUNE 19, 2003

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

MEDTRONIC, INC.
710 MEDTRONIC PARKWAY NE
MS-LC340
MINNEAPOLIS, MN 55432-5604



102365385A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/05/2003

REEL/FRAME: 013741/0244
NUMBER OF PAGES: 17

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
AAMODT, PAUL B.

DOC DATE: 12/12/2002

ASSIGNOR:
BARTLEY, FRANISE D.

DOC DATE: 12/18/2002

ASSIGNOR:
BRUESEHOFF, STEVE M.

DOC DATE: 01/14/2003

ASSIGNOR:
CASBY, KURT J.

DOC DATE: 12/10/2002

ASSIGNOR:
HAAS, DAVID P.

DOC DATE: 01/13/2003

ASSIGNOR:
SOMDAHL, SONJA K.

DOC DATE: 01/07/2003

ASSIGNOR:
PAPENFUSS, JASON T.

DOC DATE: 01/06/2003

ASSIGNOR:
 \ CHAFFIN, KIMBERLY A.

DOC DATE: 12/11/2002

ASSIGNOR:
 \ HOKANSON, KARL E.

DOC DATE: 12/10/2002

ASSIGNOR:
 \ NUTZMAN, THOMAS M.

DOC DATE: 12/11/2002

ASSIGNOR:
 \ RIES, ANDREW J.

DOC DATE: 11/22/2002

ASSIGNOR:
 \ ROBINSON, SCOTT J.

DOC DATE: 12/10/2002

ASSIGNOR:
 \ ROLES, RANDY S.

DOC DATE: 12/11/2002

ASSIGNOR:
 \ SUNDERLAND, WALTER C.

DOC DATE: 01/02/2003

ASSIGNOR:
 \ FARRELL, WILLIAM J.

DOC DATE: 01/06/2003

ASSIGNEE:
 MEDTRONIC, INC.
 710 MEDTRONIC PARKWAY
 M.S. LC 340
 MINNEAPOLIS, MINNESOTA 55432

SERIAL NUMBER: 10260625
 PATENT NUMBER:

FILING DATE: 09/30/2002
 ISSUE DATE:

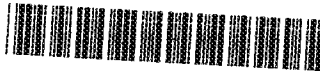
SHARON LATIMER, EXAMINER
 ASSIGNMENT DIVISION
 OFFICE OF PUBLIC RECORDS

ASSIGNMENT RECORD
PARTIAL

02-13-2003

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks



Documents or copy thereof.

1. Name of conveying party(ies):

2-11-03

102365385

Receiving party(ies):

Paul B. Aamodt	Karl E. Hokanson
Franise D. Bartley	Thomas M. Nutzman
Steve M. Bruesehoff	Andrew J. Ries
Kurt J. Casby	Scott J. Robinson
David P. Haas	Randy S. Roles
Sonja K. Somdahl	Walter C. Sunderland
Jason T. Papenfuss	William J. Farrell
Kimberly A. Chaffin	

Name: MEDTRONIC, INC.
 Internal Address: M.S. LC 340
 Street Address: 710 Medtronic Parkway
 City: MINNEAPOLIS State: MN Zip: 55432

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

3. Nature of conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: 12/12/2002	Paul B. Aamodt
12/18/2002	Franise D. Bartley
01/14/2003	Steve M. Bruesehoff
12/10/2002	Kurt J. Casby
01/13/2003	David P. Haas
12/10/2002	Karl E. Hokanson
12/11/2002	Thomas M. Nutzman
01/06/2003	Jason T. Papenfuss
12/11/2002	Kimberly A. Chaffin

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

11/22/2002	Andrew J. Ries
12/10/2002	Scott J. Robinson
12/11/2002	Randy S. Roles
01/07/2003	Sonja K. Somdahl
01/02/2003	Walter C. Sunderland
01/06/2003	William J. Farrell

OFFICE OF PUBLIC RECORDS
2003 FEB 11 AM 10:04
FINANCE SECTION

4. Application number(s) or patent number(s): 10/260,625

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Additional numbers attached? []Yes [X]No

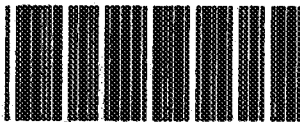
5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Paul H. McDowall

Address:

6. Total number of applications and patents involved:..... 1

7. Total fee (37 CFR 3.41):.....\$40.00



27581

- Enclosed
 Authorized to be charged to deposit account

8. Deposit Account Number: 13-2546
(Attach duplicate copy of this page)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Paul H. McDowall
Name of Person Signing

[Signature]
Signature

5 Feb. 03
Date

Total number of pages including cover sheet, attachments and document: 17

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

02/13/2003 LNUELLER 00000043 132546 10260625

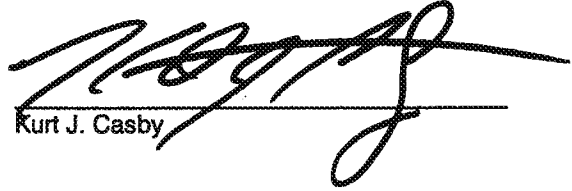
Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

01 FC:8021 40.00 CH

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), 1Washington, D.C. 20503.

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

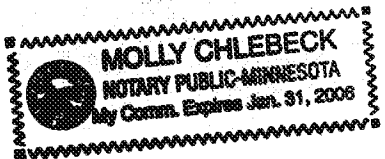
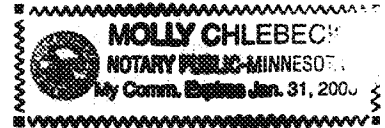
IN WITNESS WHEREOF, I have hereunto set my hand on this 10th day of DEC, 2002.


Kurt J. Casby

On this 10th day of December, 2002, before me personally appeared Kurt J. Casby, 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

WHEREAS, WE, Paul B. Aamodt, Franise D. Bartley, Steve M. Bruesehoff, Kurt J. Casby, David P. Haas, Karl E. Hokanson, Thomas M. Nutzman, Andrew J. Ries, Scott J. Robinson, Randy S. Roles, Sonja K. Somdahl, Walter C. Sunderland, Jason T. Papenfuss, William J. Farrell and Kimberly A. Chaffin, are the inventors of CONTOURED BATTER FOR IMPLANTABLE MEDICAL DEVICES AND METHOD OF MANUFACTURE 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 on ____, 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 55432-5640, 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, 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 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, 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 hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

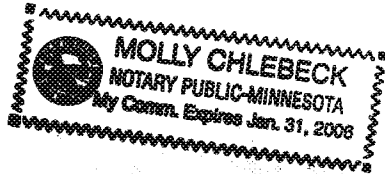
IN WITNESS WHEREOF, I have hereunto set my hand on this 12 day of December, 2002.

Paul B. Aamodt
Paul B. Aamodt

On this 12th day of December, 2002, before me personally appeared Paul B. Aamodt, 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.

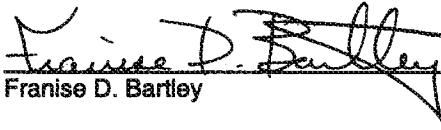
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Molly Chlebeck
Notary Public



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 18 day of December, 2002.



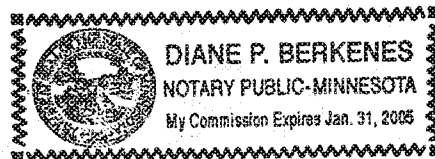
Franise D. Bartley

On this 18th day of December, 2002, before me personally appeared Franise D. Bartley, 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



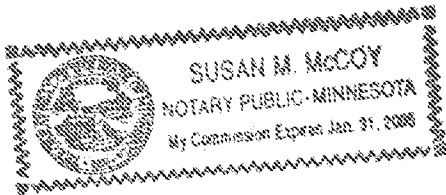
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 14 day of JANUARY, 2002.

Steve M. Bruesehoff
Steve M. Bruesehoff

On this 14th day of January, 2002, before me personally appeared Steve M. Bruesehoff, 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.



Susan M. McCoy
Notary Public

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

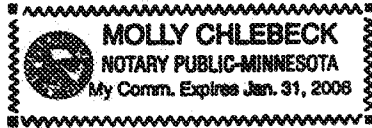
IN WITNESS WHEREOF, I have hereunto set my hand on this 13 day of January, 2003

David P. Haas
David P. Haas

On this 13th day of January, 2003, before me personally appeared David P. Haas, 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.

Molly Chlebeck
Notary Public



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

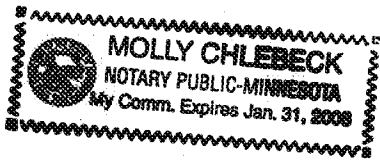
IN WITNESS WHEREOF, I have hereunto set my hand on this 10th day of DEC, 2002.


Karl E. Hokanson

On this 10th day of December, 2002, before me personally appeared Karl E. Hokanson, 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



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

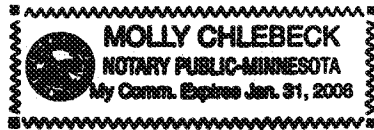
IN WITNESS WHEREOF, I have hereunto set my hand on this 11 day of DEC, 2002.


Thomas M. Nutzman

On this 11th day of December, 2002, before me personally appeared Thomas M. Nutzman, 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



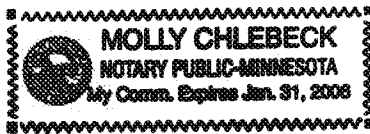
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 22 day of Nov, 2002.

Andrew J. Ries
Andrew J. Ries

On this 22nd day of November, 2002, before me personally appeared Andrew J. Ries, 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.



Molly Chlebeck
Notary Public

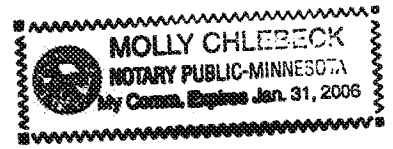
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 10th day of Dec, 2002.


Scott J. Robinson

On this 10th day of December, 2002, before me personally appeared Scott J. Robinson, 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.

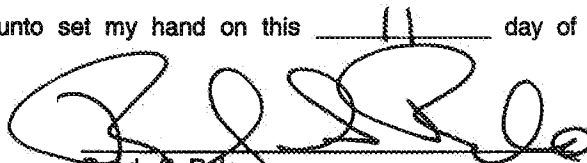
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.




Notary Public

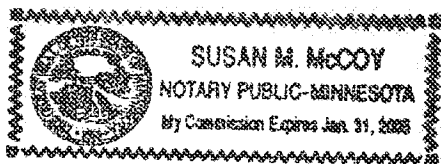
I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

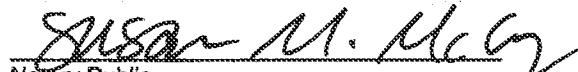
IN WITNESS WHEREOF, I have hereunto set my hand on this 11 day of Dec, 2002.


Randy S. Roles

On this 11th day of December, 2002, before me personally appeared Randy S. Roles, 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

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

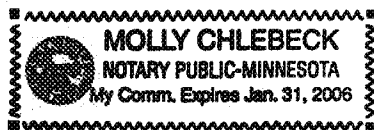
IN WITNESS WHEREOF, I have hereunto set my hand on this 7th day of January, ~~2002~~ 2003

Sonja K. Somdahl
Sonja K. Somdahl

On this 7th day of January, ~~2002~~ 2003, before me personally appeared Sonja K. Somdahl, 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.

Molly Chlebeck
Notary Public



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

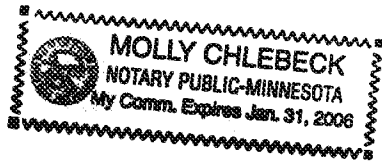
IN WITNESS WHEREOF, I have hereunto set my hand on this 2nd day of Jan., ~~2002~~ 2003

Walter C. Sunderland
Walter C. Sunderland

On this 2nd day of January, ~~2002~~ 2003, before me personally appeared Walter C. Sunderland, 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.

Molly Chlebeck
Notary Public



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

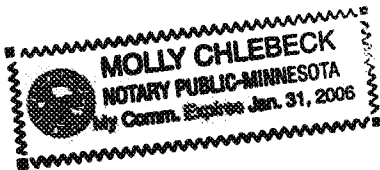
IN WITNESS WHEREOF, I have hereunto set my hand on this 6th day of JANUARY, 2003


Jason T. Papenfuss

On this 6th day of January, ~~2002~~ ²⁰⁰³, before me personally appeared Jason T. Papenfuss, 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



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

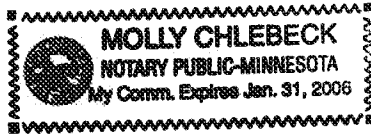
IN WITNESS WHEREOF, I have hereunto set my hand on this 6th day of January, 2003

William J. Farrell
William J. Farrell

On this 6th day of January, ~~2002~~ 2003, before me personally appeared William J. Farrell, 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,

Molly Chlebeck
Notary Public



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

Dec IN WITNESS WHEREOF, I have hereunto set my hand on this 11 day of _____, 2002.

Kimberly A. Chaffin
Kimberly A. Chaffin

On this 11th day of December, 2002, before me personally appeared Kimberly A. Chaffin, 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.

Molly Chlebeck
Notary Public

