

*WHD* ASSIGN  
*3-13-00*

04-26-2000



To the Honorable Commissioner of Pat

101336515

original documents or copy thereof.

1. Name of conveying party(ies):

Frans Philippens, Craig F. Borchard, Jill Guimont  
Tim Hauch, Dan Sheehan, Robert Spencer  
Mary Robischon, Joanna Pierce, Patrick Johnson  
*2000 MAR 13 PM 12:13*  
*OPR/FINANCE*

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

2. Name and address of receiving party(ies):

Name: MEDTRONIC, INC.

Internal Address: M.S. 301

Street Address: 7000 CENTRAL AVENUE NORTHEAST

City: MINNEAPOLIS State: MN Zip: 55432

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

<b>Execution Date:</b>	Philippens 2/11/00	Borchard 1/14/00
Guimont 1/20/00	Hauch 1/24/00	Sheehan 1/31/00
Spencer 1/21/00	Robischon 1/21/00	Pierce 2/1/00
Johnson 1/18/00		

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

If this document is being filed together with a new application, the execution date of the application is: December 22, 1999

A. Patent Application No.(s) 09/470,020

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Curtis D. Kinghorn

Address: MEDTRONIC, INC.  
7000 Central Avenue N.E.  
M.S. 301  
Minneapolis, Minnesota 55432

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

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

Enclosed  
 Authorized to be charged to deposit account

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

DO NOT USE THIS SPACE

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.

Curtis D. Kinghorn  
Name of Person Signing

*Curtis D. Kinghorn*  
Signature

March 2, 2000  
Date

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

04/25/2000 TTON11 00000168 132546 09470020

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

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

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

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), 1 Washington, D.C. 20503.

**PATENT**  
**REEL: 010720 FRAME: 0383**

**ASSIGNMENT**

WHEREAS, WE, Frans Philippens, Craig F. Borchard, Jill Guimont, Tim Hauch, Dan Sheehan, Robert Spencer, Mary Robischon, Joanna Pierce and Patrick Johnson are the inventors of Valved Connector and Method of Use 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 even date herewith; therefore: 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 7000 Central Avenue 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:

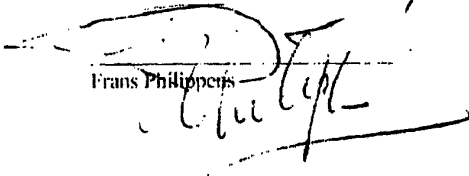
AND, for the consideration aforesaid, I materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, I am the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above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

**PATENT**  
**REEL: 010720 FRAME: 0384**

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

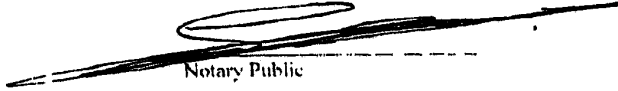
IN WITNESS WHEREOF, I have hereunto set my hand on this 11 day of February, 2000.

  
Frans Philippens

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_ ss.

On this 11 day of February, 2000, before me personally appeared Frans Philippens, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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 \_\_\_ day of \_\_\_\_\_, 2000.

\_\_\_\_\_  
Craig F. Borchard

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_ ss.

On this \_\_\_ day of \_\_\_\_\_, 2000, before me personally appeared Craig F. Borchard, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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

**PATENT**  
**REEL: 010720 FRAME: 0385**

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 \_\_\_\_ day of \_\_\_\_\_, 2000.

\_\_\_\_\_  
Frans Philippens

STATE OF \_\_\_\_\_

ss.

COUNTY OF \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2000, before me personally appeared Frans Philippens, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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<sup>th</sup> day of January, 2000.

Craig F. Borchard  
Craig F. Borchard

STATE OF MINNESOTA

ss.

COUNTY OF ANOKA

On this 14<sup>th</sup> day of JANUARY 2000, before me personally appeared Craig F. Borchard, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

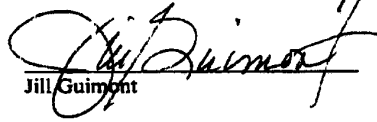
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Quanita J. Trautler  
Notary Public

**PATENT**  
**REEL: 010720 FRAME: 0386**

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 20 day of January, 2000.

  
Jill Guimont

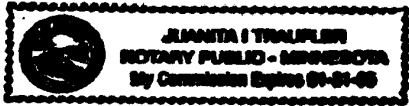
STATE OF Minnesota

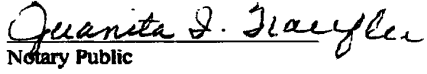
ss.

COUNTY OF Anoka

On this 20 day of January, 2000, before me personally appeared Jill Guimont, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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 \_\_\_\_ day of \_\_\_\_\_, 2000.

\_\_\_\_\_  
Tim Hauch

STATE OF \_\_\_\_\_

ss.

COUNTY OF \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2000, before me personally appeared Tim Hauch, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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

**PATENT  
REEL: 010720 FRAME: 0387**

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 \_\_\_\_\_ day of \_\_\_\_\_, 2000,

\_\_\_\_\_  
Jill Guimont

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_ ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 2000, before me personally appeared Jill Guimont, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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 24 day of January, 2000.

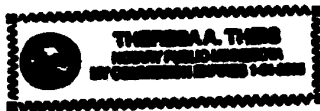
Tim Hauch  
Tim Hauch

STATE OF PA  
COUNTY OF LANCASTER ss.

On this 24 day of January, 2000, before me personally appeared Tim Hauch, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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.

Theresa A. Thies  
Notary Public



**PATENT**  
**REEL: 010720 FRAME: 0388**

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 31 day of Jan, 2000.

Daniell P. Sheehan  
Dan Sheehan

STATE OF MINNESOTA

ss.

COUNTY OF ANOKA

On this 31 day of January, 2000, before me personally appeared Dan Sheehan, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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.



Juanita I. Trautler  
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 21 day of January, 2000.

Robert Spencer  
Robert Spencer

STATE OF \_\_\_\_\_

ss.

COUNTY OF \_\_\_\_\_

On this 21<sup>st</sup> day of January, 2000, before me personally appeared Robert Spencer, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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.

Kathleen A. Paron  
Notary Public



**PATENT**  
**REEL: 010720 FRAME: 0389**

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 21 day of January, 2000.

Mary Robischn  
Mary Robischn

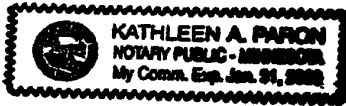
STATE OF \_\_\_\_\_

ss.

COUNTY OF \_\_\_\_\_

On this 21 day of January, 2000, before me personally appeared Mary Robischn, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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.



Kathleen A. Paron  
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 1 day of February, 2000.

Joanna Pierce  
Joanna Pierce

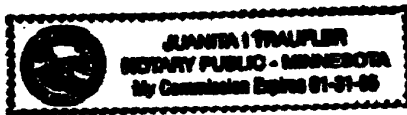
STATE OF MINNESOTA

ss.

COUNTY OF HENRY

On this 1 day of February, 2000, before me personally appeared Joanna Pierce, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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.




Juanita Trautler  
Notary Public

**PATENT**  
**REEL: 010720 FRAME: 0390**



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 January, 2000.

  
Patrick Johnson

STATE OF Minnesota

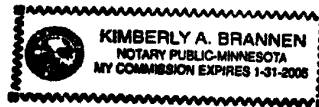
SS.

COUNTY OF \_\_\_\_\_

On this 18<sup>th</sup> day of January, 2000, before me personally appeared Patrick Johnson, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his 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



RECORDED: 03/13/2000

PATENT  
REEL: 010720 FRAME: 0391