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02-29-2000



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To the Honorable Commissioner o Please record the attached ori

1. Name of conveying party(ies):
Jerome T. Hartlaub, David C. Ullestad, and Earle T. Roberts
Additional name(s) of conveying party(ies) attached?
YES NO

2. Name and address of receiving party(ies):
Name: Medtronic, Inc.
Internal Address:
Street Address: 7000 Central Avenue
City: Minneapolis
State: Minnesota
Zip: 55432
Additional name(s) & address(es) attached?
YES NO

RECEIVED
JAN 31 PM 2:13
OPR/FINANCE

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: May 25, 1999 and June 11, 1999

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: _____
A. Patent Application No.(s):
(include series code or filing date)
09/303,032, April 30, 1999
B. Patent No.(s):
Additional application or patent numbers attached? YES NO

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Banner & Witcoff, Ltd.
Address: 10 South Wacker Drive, Suite 3000
City: Chicago
State: Illinois Zip: 60606

6. Total number of applications and patents involved: 1
7. Total Fee (37 CFR 3.41) \$ 40.00
 Enclosed Authorized to charge Deposit Account (01-0850)
8. Should any fee adjustment be necessary to effect proper recordation, please debit or credit our Deposit Account No. 01-0850, as necessary.

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.

02/29/2000 DNGUYEN 00000017 09303032

01 FC:581

William J. Klein
Name of Person Signing
Reg. No. 43,719

40.00

Signature

1-24-2000
Date

Atty. Docket No.: 11738.79441

Total number of pages including cover sheet, attachments and document: 9

B&W No. 11738.79441

REC

10-19-1999

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks



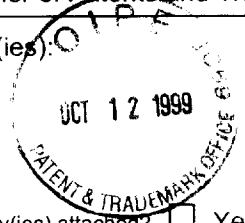
101175917

original documents or copy thereof.

1. Name of conveying party(ies):

Jerome T. Hartlaub
David C. Ullestad
Earle T. Roberts

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



receiving party(ies):

Name: Medronic Inc.

Internal Address: _____

Street Address: 7000 Central Avenue NE

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other Corrected Assignment Recordation Cover Sheet correcting date of execution on Original Assignment, Reel 010027/Frame 0225, from 6/11/99 to 5/25/99 for Jerome T. Hartlaub

Execution Date: May 25, 1999 and June 11, 1999

City: Minneapolis State: MN ZIP: 55432

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

A domestic representative designation is attached: Yes No
(Designations must be a separate document from Assignment)

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: _____

A. Patent Application No(s). 09/303,032 B. Patent No(s). _____

Additional numbers attached? Yes No

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

Name: William J. Klein

Address: BANNER & WITCOFF, LTD.
Suite 3000
Ten South Wacker Drive
Chicago, Illinois 60606

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 No. 01-0850

(Attach duplicate copy of this page if paying by deposit account)

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.

William J. Klein [Signature] October 8, 1999
Name of Person Signing Signature Date

10/18/1999 BNUYEN 00000315 09303032

01 FC:581 40.00 DP Total number of pages including cover sheet, attachments, and document 7

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

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

ASSIGNMENT

Case No.: **99,068 (11738.79441)**

Serial No.:

Inventors: **Jerome T. Hartlaub, Earle T. Roberts and David C. Ullestad**

Date of Execution

of Application:

Filing Date:

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

Medtronic, a corporation of the State of Minnesota

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**System and Method for Storing Firmware In A
Human-Implantable Medical Treatment Device**

and identified as:

Case No. 99,068 (11738.79441)

in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignees, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignees, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignees, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 25 day of May, 1999.

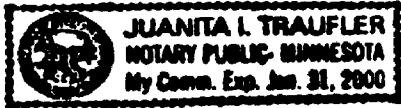
Jerome T Hartlaub
Jerome T. Hartlaub

State of MINNESOTA

County of ANOKA

The foregoing instrument was acknowledged before me this 25 day of

MAY, 1999 by JEROME T. HARTLAUB



Juanita I. Traufler
NOTARY PUBLIC

WITNESS my hand and seal this 11 day of June, 1999.

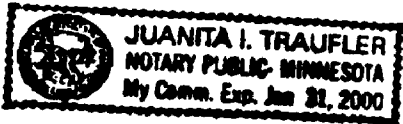
Earle T Roberts
Earle T. Roberts

State of MINNESOTA

County of ANOKA

The foregoing instrument was acknowledged before me this 11 day of

June, 1999 by Earle T. Roberts



Juanita I. Traufler
NOTARY PUBLIC

WITNESS my hand and seal this 11 day of June, 1999.

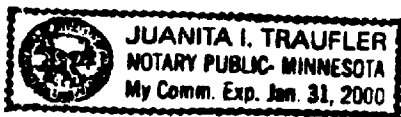
David C. Ullestad
David C. Ullestad

State of MINNESOTA

County of ANOKA

The foregoing instrument was acknowledged before me this 11 day of

June, 1999 by David C. Ullestad



Juanita I. Traufler
NOTARY PUBLIC