

6-19-98  
Case 96,1287

07-02-1998



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents

100753718

Attached original documents or copy thereof.

1. Name of conveying party(ies)  
  
Jerome T. Hartlaub  
Marc T. Stein  
  
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, N.E.  
City: Minneapolis State MN ZIP 55432

3 Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: April 28-29, 1997


Additional name(s) & addresses 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) 08/847,642 filed April 30, 1997 B. Patent No(s) \_\_\_\_\_  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
  
Name: Monica H. Choi  
Address: WITCOFF  
BANNER & ANDERSON, LTD.  
10 South Wacker Drive  
Suite 3000  
Chicago, Illinois 60606

6. Total number of applications and patents involved \_\_\_\_\_  
7. Total fee (37 CFR 3.41) \$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account  
8. Deposit Account No. 010850  
  
Attach duplicate copy of this page if paying by deposit account

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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*  
  
Charles W. Shifley  June 16, 1998  
Name of Person Signing Signature Date  
  
Total number of pages comprising cover sheet: 5

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

REEL: 9273 FRAME: 64

06/20/1998 JWR/KINS 0000071 08847642 40.00 DP

**ASSIGNMENT**

Case No.: **96,1287**

Serial No.: 08/847,642

Inventors: Jerome T. Hartlaub and Marc T. Stein

Date of Execution

of Application: \_\_\_\_\_

Filing Date: 04/30/97

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 assigns to:

**Medtronic, Inc., 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:

**CONTROL OF EXTERNALLY INDUCED CURRENT  
IN IMPLANTABLE MEDICAL DEVICES**

and identified as:

**Case No. 96,1287**

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 authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

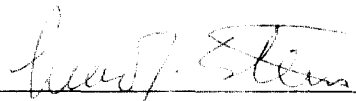
The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

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

For said considerations the undersigned hereby agrees, 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 authorizes 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 agrees, upon the request of said assignee, 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 assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, 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.

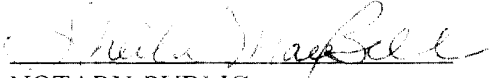
WITNESS my hand and seal this 29 day of APRIL, 1997.

  
\_\_\_\_\_  
Marc T. Stein

State of Wisconsin

County of Marquette

The foregoing instrument was acknowledged before me this 29<sup>th</sup> day of April, 1997 by Marc T. Stein

  
\_\_\_\_\_  
NOTARY PUBLIC

**ASSIGNMENT**

Case No.: **96,1287**

Serial No.: 08/847,642

Inventors: Jerome T. Hartlaub and Marc T. Stein

Date of Execution

of Application: \_\_\_\_\_

Filing Date: 04/30/97

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 assigns to:

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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:

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IN IMPLANTABLE MEDICAL DEVICES**

and identified as:

**Case No. 96,1287**

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 authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorizes and requests 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 and any other joint inventor(s) warrant themselves to be owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agrees, 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 authorizes 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 agrees, upon the request of said assignee, 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 assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, 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 28<sup>th</sup> day of April, 1997.

Jerome T. Hartlaub  
Jerome T. Hartlaub

State of Minnesota

County of Anoka

The foregoing instrument was acknowledged before me this 28<sup>th</sup> day of April, 1997 by Jerome T. Hartlaub

Geraldine A. Retzlaff  
NOTARY PUBLIC

