

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:  | NEW ASSIGNMENT        |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
|---|-----------------------|---------------|-----------------|---------------------|-----------------------|----------------------------------|-----------------|-----------------------------|-------------|----------------|-----------|--------------|-------|
| NATURE OF CONVEYANCE:   | ASSIGNMENT            |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| <b>CONVEYING PARTY DATA</b>   |                       |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mattias Rouw</td> <td>05/18/2004</td> </tr> <tr> <td>Chritianus J.J.E. van Groeningen</td> <td>05/18/2004</td> </tr> <tr> <td>Henricus Willem M. de Bruyn</td> <td>05/18/2004</td> </tr> </tbody> </table>                                  |                       | Name          | Execution Date  | Mattias Rouw        | 05/18/2004            | Chritianus J.J.E. van Groeningen | 05/18/2004      | Henricus Willem M. de Bruyn | 05/18/2004  |                |           |              |       |
| Name  | Execution Date        |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| Mattias Rouw  | 05/18/2004            |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| Chritianus J.J.E. van Groeningen  | 05/18/2004            |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| Henricus Willem M. de Bruyn   | 05/18/2004            |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| <b>RECEIVING PARTY DATA</b>   |                       |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Medtronic, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>710 Medtronic Parkway</td> </tr> <tr> <td>Internal Address:</td> <td>Mail Stop LC340</td> </tr> <tr> <td>City:</td> <td>Minneapolis</td> </tr> <tr> <td>State/Country:</td> <td>MINNESOTA</td> </tr> <tr> <td>Postal Code:</td> <td>55432</td> </tr> </table> |                       | Name:         | Medtronic, Inc. | Street Address:     | 710 Medtronic Parkway | Internal Address:                | Mail Stop LC340 | City:                       | Minneapolis | State/Country: | MINNESOTA | Postal Code: | 55432 |
| Name:   | Medtronic, Inc.       |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| Street Address:   | 710 Medtronic Parkway |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| Internal Address:   | Mail Stop LC340       |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| City:   | Minneapolis           |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| State/Country:  | MINNESOTA             |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| Postal Code:  | 55432                 |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| <b>PROPERTY NUMBERS Total: 1</b>  |                       |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12708080</td> </tr> </tbody> </table>   |                       | Property Type | Number          | Application Number: | 12708080              |                                  |                 |                             |             |                |           |              |       |
| Property Type   | Number                |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| Application Number:   | 12708080              |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| <b>CORRESPONDENCE DATA</b>  |                       |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| <p>Fax Number: (763)505-2530</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (763) 526-1564</p> <p>Email: susan.m.nienaber@medtronic.com</p> <p>Correspondent Name: Reed A. Duthler</p> <p>Address Line 1: 710 Medtronic Parkway</p> <p>Address Line 2: Mail Stop LC340</p> <p>Address Line 4: Minneapolis, MINNESOTA 55432</p>   |                       |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| ATTORNEY DOCKET NUMBER:   | P0010395.04           |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| NAME OF SUBMITTER:  | Reed A. Duthler       |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |
| Total Attachments: 4  |                       |               |                 |                     |                       |                                  |                 |                             |             |                |           |              |       |

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**PATENT**  
**REEL: 023955 FRAME: 0821**

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## ASSIGNMENT

WHEREAS, WE, Mattias Rouw, Christiaan J.J.E. van Groeningen, and Hendricus Willem M. de Bruyn, are the inventors of T-Wave Alternans Train Spotter 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 May 3, 2004, 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 or 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.

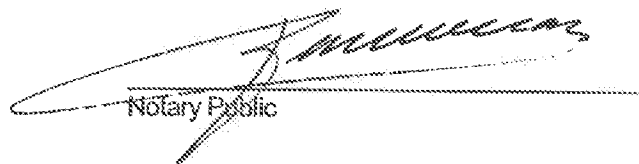
IN WITNESS WHEREOF, I have hereunto set my hand on this 03 day of May, 2004.



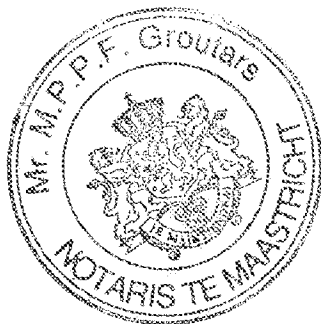
Mattias Rouw

On this 18<sup>th</sup> day of May, 2004, before me personally appeared Mattias Rouw, 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.

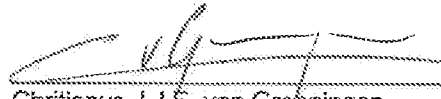


Notary Public




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

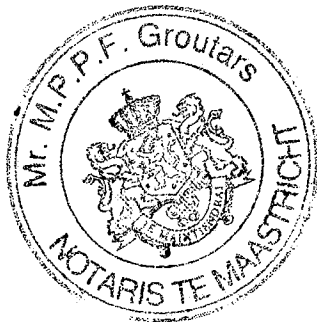
IN WITNESS WHEREOF, I have hereunto set my hand on this 3<sup>rd</sup> day of May, 2004.

  
Chritianus J.J.E. van Groeningen

On this 18<sup>th</sup> day of May, 2004, before me personally appeared Chritianus J.J.E. van Groeningen, 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.

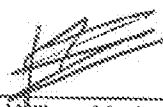
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

  
Notary Public



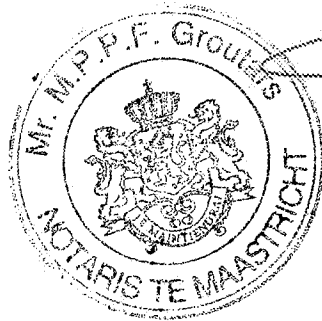
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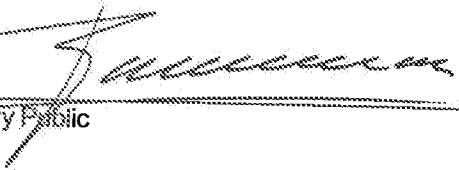
IN WITNESS WHEREOF, I have hereunto set my hand on this 4 day of May, 2004.

  
Henricus Willem M. de Bruyn

On this 18<sup>th</sup> day of May, 2004, before me personally appeared Henricus Willem M. de Bruyn, 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