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102411385

To the honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

JOSEPH L. SULLIVAN

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

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: 03/21/2003

2. Name and address of receiving party(ies)

Name: MEDTRONIC PHYSIO-CONTROL
MANUFACTURING CORPORATION

Internal Address: _____

Street Address: 11811 Willows Road N.E.

City: Redmond State: WA Zip: 98052

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

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: 03/21/2003

A. Patent Application No.(s)

B. Patent No.(s)

10396023

Additional numbers attached? ☐ Yes ☒ No

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

Name: Timothy J. Lorenz

Ingrassia Fisher & Lorenz, P.C.

Internal Address: _____

Street Address: 7150 E. Camelback Rd. Ste. 325

City: Scottsdale State: AZ Zip: 85251

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:

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

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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.

Timothy J. Lorenz (Reg. No. 41,954)

Name of Person Signing

[Signature]
Signature

03/24/03
Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

03/31/2003 MGBREM1 00000036 10396023

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40.00 GP

PATENT
REEL: 013915 FRAME: 0266

ASSIGNMENT

WHEREAS, I, JOSEPH L. SULLIVAN, am the sole inventor of BALANCED CHARGE WAVEFORM FOR TRANSCUTANEOUS PACING for which I have executed an application for filing in the United States Patent and Trademark Office preparatory to obtaining Letters Patent of the United States on 03-21-03, therefor; and

WHEREAS, MEDTRONIC PHYSIO-CONTROL MANUFACTURING CORPORATION, a corporation organized and existing under the laws of the State of Washington and having a principal place of business at 11811 Willows Road N.E., Redmond, WA 98052, 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 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, 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 owner 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 of 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.

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
21st day of MARCH, 2003.

for Sullivan

On this 21 day of March, 2003, before me personally appeared JOSEPH L. SULLIVAN, 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.



J.A. Parkinson
Notary Public
Commission expires: 10/29/05