PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ajinkya M. Joglekar	01/11/2010

RECEIVING PARTY DATA

Name:	Medtronic, Inc.
Street Address:	710 Medtronic Parkway
City:	Minneapolis
State/Country:	MINNESOTA
Postal Code:	55432

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12625167

CORRESPONDENCE DATA

Fax Number: (651)735-1102

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 651-735-1100

Email: betlach@ssiplaw.com

Correspondent Name: Shumaker & Sieffert, P.A.

Address Line 1: 1625 Radio Drive, Suite 300

Address Line 4: Minneapolis, MINNESOTA 55125

ATTORNEY DOCKET NUMBER: 1023-799US01

NAME OF SUBMITTER: Steven J. Shumaker, Reg. No. 36,275

Total Attachments: 1

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PATENT REEL: 023927 FRAME: 0375 TCH \$40,00 12625

501091136

Attorney Docket No.: 1023-799US01/P0031766.01

ASSIGNMENT

For valuable consideration, I, Ajinkya M. Joglekar of 18988 63rd Place North, Maple Grove, MN 55311, hereby assign to: Medtronic, Inc., having a place of business at: 710 Medtronic Parkway, Minneapolis, MN 55432 and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by me, entitled IMAGE-BASED CHARACTERIZATION OF IMPLANTED MEDICAL LEADS, filed November 24, 2009, and assigned U.S. Serial Number 12/625,167; this assignment including said application, U.S. provisional application Serial Number 61/118,288, filed November 36, 2008 any other provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other application for any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, including any and all extensions, divisions, continuations, continuations-in-part or reissues thereof, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 01 (11 2010	>
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Ajinkya M. Joglekar

State of MINNESOB County of 大かと

day of January, 2016, before the Karla K. Weer Notary Public, personally appeared Ajinkya M. Joglekar personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to within the instrument and

acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary Public My Commission Expires:

KARLA K. WEIS NOTARY PUBLIC - MINNESOTA MY COMMISSION EXPIRES JANUARY 31, 2015

> PATENT REEL: 023927 FRAME: 0376

RECORDED: 02/11/2010