

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3251994

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	WARREN M. GRILL	12/11/2014
	ALAN D. DORVAL II	12/12/2014
RECEIVING PARTY DATA		
Name:	DUKE UNIVERSITY	
Street Address:	2812 ERWIN ROAD	
Internal Address:	SUITE 306	
City:	DURHAM	
State/Country:	NORTH CAROLINA	
Postal Code:	27705	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	13897504	
CORRESPONDENCE DATA		
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
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Correspondent Name:	MCDONALD HOPKINS LLC	
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ATTORNEY DOCKET NUMBER:	37696-00020	
NAME OF SUBMITTER:	TODD A. BENNI	
SIGNATURE:	/Todd A. Benni/	
DATE SIGNED:	03/05/2015	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 5		
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PATENT

REEL: 035090 FRAME: 0168

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Assignment of Patent Application

Whereas, we, Warren M. Grill, having an address at 405 Rock Garden Road, Chapel Hill, NC 27516, United States of America; and Alan D. Dorval, II, having an address at 1118 Herbert Avenue, Salt Lake City, UT 84105, United States of America; hereinafter referred to as "Assignors," have invented, a new and useful invention, for which a U.S. Utility Continuation Patent Application was filed on May 30, 2013, having Attorney Docket No. 37696-00020 and Application No. 13/897,504; U.S. Utility Patent Application filed on October 5, 2009, having Attorney Docket No. 37696-00002 and Application No. 12/587,295, now U.S. Patent 8,447,405; U.S. Provisional Patent Application filed on October 3, 2008, having Application No. 61/102,575; and any subsequent applications filed in connection with the above invention (the "Patent").

Whereas, Duke University, having an address at 2812 Erwin Road, Suite 306, Durham, NC 27705, hereinafter referred to as "Assignee," is desirous of acquiring the entire right, title and interest in and to said Patent;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, the Assignors, by these presents do sell, assign and transfer unto Assignee, its successors and assigns, the full and exclusive right to the Patent and all letters patent of foreign countries which may be or have been issued on the invention disclosed in the Patent, all divisions, reissues, and continuations thereof, and all inventions disclosed therein, together with all claims for damages by reason of past or future infringement, with the right to sue for and collect the same for the use and benefit of Assignee and its successors and assigns.

Assignors warrant that they are the exclusive owners of the entire legal and equitable interest

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**"NON-REGULAR ELECTRICAL STIMULATION PATTERNS FOR TREATING
NEUROLOGICAL DISORDERS"**

in the Patent and the invention disclosed therein, free and clear of all liens and encumbrances; and that they have full power, authority, and capacity to make this Assignment to Assignee. Assignors covenant and agree, for themselves and for their successors and assigns that, at Assignee's request. Assignors will cause to be executed and delivered any applications, affidavits, assignments, and other instruments as may be deemed necessary or desirable by Assignee to secure for or vest in Assignee, its successors or assigns, all right, title, and interest in and to any application, patent, or other right or property covered by this assignment, including the right to apply for and obtain patents in foreign countries under the provisions of the International Convention; and Assignors hereby request and authorize the United States Commissioner of Patents and Trademarks to issue any and all United States patents granted on the Patent to Assignee as owner of the entire right, title, and interest in and to the same, and authorizes appropriately empowered officials of foreign countries to issue any letters patent granted on the Patent to Assignee as owner of the entire right, title, and interest in and to the same.

**Declaration (37 CFR 1.63) For Utility Or Design Application Using An Application Data
Sheet (37 CFR 1.76)**

Title of Invention: **Non-Regular Electrical Stimulation Patterns For Treating Neurological
Disorders**

As the below named inventor, I hereby declare that this declaration is directed to the attached application.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby state that I have reviewed and understand the contents of the above-identified

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specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

[Signature pages follow.]

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"NON-REGULAR ELECTRICAL STIMULATION PATTERNS FOR TREATING
NEUROLOGICAL DISORDERS"

Legal Name of Inventor: Warren M. Grill

By: Warren M. Grill
Warren M. Grill

Date: 12/11/2014

WITNESS:

Bryan Howell

Bryan Howell
Print Name

12/11/2014
Date

Ref. #37696-00020

"NON-REGULAR ELECTRICAL STIMULATION PATTERNS FOR TREATING
NEUROLOGICAL DISORDERS"

Legal Name of Inventor: Alan D. Dorval, II

By:


Alan D. Dorval, II

Date: 12 DEC 2014

WITNESS:



CHRISTIAN POLAR
Print Name

12 DEC 2014
Date