

<b>PATENT ASSIGNMENT COVER SHEET</b>
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TIANHE ZHANG	01/16/2018
G. KARL STEINKE	01/16/2018
MATTHEW L. MCDONALD	01/16/2018
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<b>Street Address:</b>	25155 RYE CANYON LOOP
<b>City:</b>	VALENCIA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	91355
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16210814
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<b>ATTORNEY DOCKET NUMBER:</b>	585-0279US
<b>NAME OF SUBMITTER:</b>	TERRIL LEWIS
<b>SIGNATURE:</b>	/Terril Lewis/
<b>DATE SIGNED:</b>	12/05/2018
<b>Total Attachments: 1</b>	
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# COMBINED DECLARATION & ASSIGNMENT

Attorney Docket No.:  
585-0279PUS

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Client Ref. No.: 17-0586PV01

Title:  
Use of Charge Imbalanced Pulses in an Implantable  
Stimulator to Effect a Pseudo-Constant DC Current  
Bias

## ASSIGNMENT

WHEREAS, I, **Tianhe Zhang, G. Karl Steinke, and Matthew L. McDonald**, have invented certain new and useful improvements as described in a U.S. patent application entitled "*Use of Charge Imbalanced Pulses in an Implantable Stimulator to Effect a Pseudo-Constant DC Current Bias*," which is attached, and was filed on December 15, 2017 as U.S. Provisional Patent Application Serial No. 62/599,546; and

WHEREAS, Boston Scientific Neuromodulation Corporation, a Corporation of the State of Delaware, and having an address of 25155 Rye Canyon Loop, Valencia, CA, 91355 (together with its successors and assigns, the "Assignee"), seeks to memorialize its ownership of the entire right, title and interest in and to the Invention;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, I transfer to Assignee my entire right, title, and interest in and to the Invention, including all inventions disclosed or claimed in the above-identified patent application, including any improvements thereof, any corresponding domestic applications (e.g., provisional, non-provisional, divisional, continuation, continuation-in-part, reexamination, and/or reissue patent), any corresponding foreign applications, all patents issuing thereon, or other patent application based off or claiming priority to the above-identified patent application; and all rights and benefits under any applicable treaty or convention. I authorize the USPTO (or foreign equivalent thereof) to issue any patent (or similar legal protection) to the Assignee.

I authorize the Assignee to insert in this instrument the filing date and application number of the application when ascertained. I hereby authorize the Assignee (or its designee) to apply for patent (or similar legal protection) in its own name if desired, in any and all countries.

I represent to the Assignee that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I agree when requested, without additional consideration, but at the expense of the Assignee, to provide additional reasonable assistance necessary to memorialize this assignment, to execute all oaths, declarations, assignments, powers of attorney and other papers necessary to perfect and vest title to the rights assigned herein to the Assignee; and will render all assistance in filing, obtaining, maintaining, and enforcing any patent (or similar legal protection) on the Invention in any and all countries.

## DECLARATION

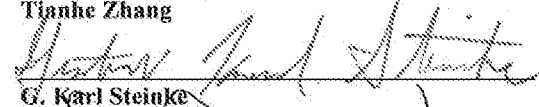
I have reviewed and understand the contents of the above-identified patent application including the claims, and I believe I am an original or an original joint inventor of a claimed invention in the above-identified patent application. The above-identified patent application was made or authorized to be made by me. I am aware of and acknowledge my duty to disclose to the USPTO all information known to me to be material to patentability of the claims in the above-identified patent application. I 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.

Inventor/Assignor 1:

  
Tianhe Zhang

2018 - Jan -16  
Date

Inventor/Assignor 2:

  
G. Karl Steinke

2018 JAN 16  
Date

Inventor/Assignor 3:

  
Matthew L. McDonald

16 Jan 2018  
Date

PATENT

RECORDED: 12/05/2018

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