

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3978724

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YELENA NABUTOVSKY	08/27/2013
EDWARD KARST	08/26/2013
FUJIAN QU	08/26/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ST. JUDE MEDICAL, CARDIOLOGY DIVISION, INC.
<b>Street Address:</b>	177 EAST COUNTY ROAD B
<b>City:</b>	ST. PAUL
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55117
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15219991
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	314-621-5070
<b>Email:</b>	USpatents@armstrongteasdale.com
<b>Correspondent Name:</b>	ARMSTRONG TEASDALE LLP (32736)
<b>Address Line 1:</b>	7700 FORSYTH BOULEVARD
<b>Address Line 2:</b>	SUITE 1800
<b>Address Line 4:</b>	ST. LOUIS, MISSOURI 63105
<b>ATTORNEY DOCKET NUMBER:</b>	CD-665US03
<b>NAME OF SUBMITTER:</b>	CHRISTOPHER M. GOFF
<b>SIGNATURE:</b>	/Christopher M. Goff/
<b>DATE SIGNED:</b>	07/26/2016
<b>Total Attachments: 6</b>	
source=CD-665US03_ASSIGNMENT-23981641#page1.tif	
source=CD-665US03_ASSIGNMENT-23981641#page2.tif	
source=CD-665US03_ASSIGNMENT-23981641#page3.tif	

source=CD-665US03\_ASSIGNMENT-23981641#page4.tif  
source=CD-665US03\_ASSIGNMENT-23981641#page5.tif  
source=CD-665US03\_ASSIGNMENT-23981641#page6.tif

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

U.S. PATENT APPLICATION NO. .... 13/836,193  
FILING DATE ..... 15 March 2013  
INVENTORS..... Yelena Nabutovsky et al.  
ASSIGNEE..... St. Jude Medical, Cardiology Division, Inc.  
ATTORNEY'S DOCKET NO ..... 47563.0370  
TITLE ..... "Feedback Systems and Methods for Renal Denervation Utilizing Balloon Catheter"

**PATENT ASSIGNMENT**

**Inventors:**

Yelena Nabutovsky  
292 S. Bayview Ave.  
Sunnyvale, CA 94086

Edward Karst  
727 W. 7th Street  
Los Angeles, CA 90017

Fujian Qu  
1535 Touraine Drive  
San Jose, CA 95118

**Assignee:**

St. Jude Medical, Cardiology Division, Inc.  
177 East County Road B  
St. Paul, MN 55117

**BACKGROUND OF THE ASSIGNMENT**

INVENTORS have conceived a certain new and useful invention disclosed in a United States patent application titled "Feedback Systems and Methods for Renal Denervation Utilizing Balloon Catheter."

ASSIGNEE desires to acquire the entire right, title and interest in the invention and with respect to any Letters Patent or grant of rights equivalent thereto that may be granted with respect to the invention in both the United States and in all foreign countries.

**THE PARTIES AGREE AS FOLLOWS:**

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, each of the undersigned INVENTORS hereby sell, assign, and transfer to St. Jude Medical, Cardiology Division, Inc. the entire right, title, and interest in the above-identified patent application executed concurrently herewith and to all reissue, divisional, continuation, renewal, substitute, and all other applications for patent and the legal equivalent thereof relating to the above-identified application, and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all countries foreign to the United States relating to any subject matter disclosed by the above-identified patent application and hereby authorize the Commissioner of Patents and Trademarks to issue such Letters Patent to ASSIGNEE for the sole use of ASSIGNEE, its successors, or assigns.

Specifically, ASSIGNEE is hereby authorized to apply for patents relating to the invention in its own name in countries where such procedure is proper; to claim the benefit of, file, and prosecute applications relating to the invention under any international conventions or treaties, if applicable. INVENTORS agree to execute applications relating to the invention in those countries and under those international conventions or treaties, if applicable, where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the resulting grant of patent rights or equivalents thereof to ASSIGNEE as well as all other necessary papers in relation to such applications and Letters Patent.

The INVENTORS further agree, at the request and expense of ASSIGNEE, to:  
execute all divisional, continuing, substitute, renewal, reissue, and any other documents relating thereto;

execute all rightful oaths, declarations, assignments, powers of attorney, and other papers;

communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known to the undersigned relating to the above-referenced Application for United States Letters Patent;

testify as to the same in any interference, litigation, or other proceeding relating to the above-referenced application for United States Letters Patent; and


in general, do everything reasonably possible which the ASSIGNEE shall consider desirable for vesting title to such Application for United States Letters Patent in the ASSIGNEE, and for securing, maintaining, defending, or enforcing valid and enforceable patent protection therefor.

The INVENTORS acknowledge that the sale, assignment, and transfer of rights and property set forth herein is and shall be irrevocable and binding upon the heirs, assigns, representatives and successors of each undersigned INVENTORS and extends to the successors, assigns, and nominees of the ASSIGNEE.

Signed on \_\_\_\_\_, 2013.

\_\_\_\_\_  
Yelena Nabutovsky

Signed on 26 Aug. \_\_\_\_\_, 2013.

  
\_\_\_\_\_  
Edward Karst

Signed on \_\_\_\_\_, 2013.

\_\_\_\_\_  
Fujian Qu

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

U.S. PATENT APPLICATION NO. .... 13/836,193  
FILING DATE ..... 15 March 2013  
INVENTORS..... Yelena Nabutovsky et al.  
ASSIGNEE..... St. Jude Medical, Cardiology Division, Inc.  
ATTORNEY'S DOCKET NO ..... 47563.0370  
TITLE..... "Feedback Systems and Methods for Renal Denervation Utilizing Balloon Catheter"

**PATENT ASSIGNMENT**

**Inventors:**

Yelena Nabutovsky  
292 S. Bayview Ave.  
Sunnyvale, CA 94086

Edward Karst  
727 W. 7th Street  
Los Angeles, CA 90017

Fujian Qu  
1535 Touraine Drive  
San Jose, CA 95118

**Assignee:**

St. Jude Medical, Cardiology Division, Inc.  
177 East County Road B  
St. Paul, MN 55117

**BACKGROUND OF THE ASSIGNMENT**

INVENTORS have conceived a certain new and useful invention disclosed in a United States patent application titled "Feedback Systems and Methods for Renal Denervation Utilizing Balloon Catheter."

ASSIGNEE desires to acquire the entire right, title and interest in the invention and with respect to any Letters Patent or grant of rights equivalent thereto that may be granted with respect to the invention in both the United States and in all foreign countries.

6076591\_1.DOC

**THE PARTIES AGREE AS FOLLOWS:**

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, each of the undersigned INVENTORS hereby sell, assign, and transfer to St. Jude Medical, Cardiology Division, Inc. the entire right, title, and interest in the above-identified patent application executed concurrently herewith and to all reissue, divisional, continuation, renewal, substitute, and all other applications for patent and the legal equivalent thereof relating to the above-identified application, and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all countries foreign to the United States relating to any subject matter disclosed by the above-identified patent application and hereby authorize the Commissioner of Patents and Trademarks to issue such Letters Patent to ASSIGNEE for the sole use of ASSIGNEE, its successors, or assigns.

Specifically, ASSIGNEE is hereby authorized to apply for patents relating to the invention in its own name in countries where such procedure is proper; to claim the benefit of, file, and prosecute applications relating to the invention under any international conventions or treaties, if applicable. INVENTORS agree to execute applications relating to the invention in those countries and under those international conventions or treaties, if applicable, where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the resulting grant of patent rights or equivalents thereof to ASSIGNEE as well as all other necessary papers in relation to such applications and Letters Patent.

The INVENTORS further agree, at the request and expense of ASSIGNEE, to:  
execute all divisional, continuing, substitute, renewal, reissue, and any other documents relating thereto;

execute all rightful oaths, declarations, assignments, powers of attorney, and other papers;

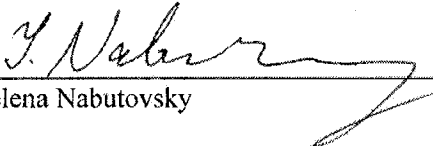
communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known to the undersigned relating to the above-referenced Application for United States Letters Patent;

testify as to the same in any interference, litigation, or other proceeding relating to the above-referenced application for United States Letters Patent; and

in general, do everything reasonably possible which the ASSIGNEE shall consider desirable for vesting title to such Application for United States Letters Patent in the ASSIGNEE, and for securing, maintaining, defending, or enforcing valid and enforceable patent protection therefor.

The INVENTORS acknowledge that the sale, assignment, and transfer of rights and property set forth herein is and shall be irrevocable and binding upon the heirs, assigns, representatives and successors of each undersigned INVENTORS and extends to the successors, assigns, and nominees of the ASSIGNEE.

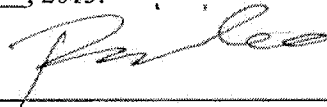
Signed on 8/27, 2013.

  
\_\_\_\_\_  
Yelena Nabutovsky

Signed on \_\_\_\_\_, 2013.

\_\_\_\_\_  
Edward Karst

Signed on 08/26, 2013.

  
\_\_\_\_\_  
Fujian Qu