501816867 02/10/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Troy T. Tegg	12/05/2011
Andrew Senn	12/29/2011
James V. Kauphusman	11/21/2011
Michael C. Bednarek	11/22/2011

RECEIVING PARTY DATA

Name:	St. Jude Medical, Atrial Fibrillation Division, Inc.
Street Address:	One St. Jude Medical Drive
City:	St. Paul
State/Country:	MINNESOTA
Postal Code:	55117-9913

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13107583

CORRESPONDENCE DATA

 Fax Number:
 (651)756-2808

 Phone:
 6517562000

 Email:
 evogt@sjm.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Reed R. Heimbecher

Address Line 1: St. Jude Medical, AF Division, Inc.
Address Line 2: One St. Jude Medical Drive

Address Line 4: St. Paul, MINNESOTA 55117-9913

ATTORNEY DOCKET NUMBER: 0B-141401US

NAME OF SUBMITTER: Emily A. Vogt

PATENT

REEL: 027686 FRAME: 0614

Total Attachments: 4

source=Fully_exec_AST#page1.tif source=Fully_exec_AST#page2.tif source=Fully_exec_AST#page3.tif source=Fully_exec_AST#page4.tif

> PATENT REEL: 027686 FRAME: 0615

ASSIGNMENT

WHEREAS, WE, Troy T. Tegg of 19307 Baldwin Street, Elk River, Minnesota 55330; Andrew Senn of 3549 Holmes Avenue, Minneapolis, Minnesota 55408; James V. Kauphusman of 62 Villa Point Drive, Newport Beach, California 92660; and Michael C. Bednarek of 80 Marblehead, Irvine, California 92620, hereinafter ASSIGNORS, have invented certain new and useful improvements in Five degree of freedom ultrasound catheter and catheter control handle, for which United States patent application number 13/107,583 was filed on 13 May 2011;

AND WHEREAS St. Jude Medical, Atrial Fibrillation Division, Inc., a corporation organized and existing under the laws of the State of Minnesota, and having a business address at One St. Jude Medical Drive, St. Paul, Minnesota 55117-9913, hereinafter ASSIGNEE, is desirous of acquiring the entire right, title, and interest in, to, and under said invention, said application, and any and all patents to be obtained therefor throughout the world;

NOW, THEREFORE, for and in consideration of good and valuable consideration to us in hand paid by ASSIGNEE, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do hereby sell, assign, and transfer unto ASSIGNEE, its successors and assigns, our entire right, title, and interest in and to said invention, said application, all divisions, continuations, continuations-in-part, reissues, or renewals thereof, and said patents, both foreign and domestic, that may or shall issue, including all of our entire rights under any and all international conventions;

AND WE HEREBY authorize ASSIGNEE, its successors and assigns, or anyone it may properly designate, to apply for patents, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and otherwise take advantage of the provisions of any and all international conventions;

AND WE HEREBY authorize and request any official of any State whose duty consists of issuing patents, or other evidence or forms of any industrial property protection on any aforesaid application, to issue same to ASSIGNEE, its successors and assigns, in accordance herewith:

AND WE HEREBY covenant and agree with ASSIGNEE, its successors and assigns, that we have the full right to convey the entire interest assigned herein, and that we have not executed, and will not execute, any agreement in conflict herewith, and that we will not do any other act whatsoever conflicting with these presents, and that we or our successors, assigns, executors, or administrators will at any time upon request, without further or additional consideration, but at the expense of ASSIGNEE, its successors and assigns, communicate to ASSIGNEE, its successors and assigns, any facts known to ASSIGNORS respecting said invention, and testify in any legal proceedings, sign any lawful papers, execute any original, divisional, continuation, and continuation-in-part applications, make any rightful oaths or declarations, and generally do such additional acts as ASSIGNEE, its successors and assigns, may deem necessary or desirable to obtain and enforce proper protection for said invention throughout the world;

Assignors' Initials

TTT AS AVK MCB

PATENT REEL: 027686 FRAME: 0616

AND WE HEREBY FURTHER covenant and agree that this Assignment is effective as of 13 May 2011.

IN TESTIMONY WHEREOF, ASSIGNORS hereunto set their hands on the under-mentioned day and year, and deliver this Assignment.

Date: 17/5/11 Troy T. Tegg

Date: 29 Dec ZOII Andrew Senn

Date: 21 Nov 2011 James V. Kauphusman

Date: 1-22-11

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Troy T. Tegg, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing assignment and acknowledged to me that he executed the same in his authorized capacity and acknowledged that execution of the same was a free will act and deed.

MC4mMc 2011 Ramsey St. Paul Monarde (County/City/State)

Page 2 of 4

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Andrew Senn, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing assignment and acknowledged to me that he executed the same in his authorized capacity and acknowledged that execution of the same was a free will act and deed. 29 December 2011 Ramsey/St. Paul/Minnesoti (Date) (County/City/State)

(Commission Expiry Date) (Notary Public: Signature and Name)



TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared James V. Kauphusman, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing assignment and acknowledged to me that he executed the same in his authorized capacity and acknowledged that execution of the same was a free will act and deed.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

(Date) Orange Trvine CA (County/City/State)

CHUONG NGO Commission # 1825934 Notary Public - California **Orange County** My Comm. Expires Dec 7, 201

SEAL

Oec 07, 7012 (Notary Public: Signature) and Name)

Page 3 of 4

PATENT REEL: 027686 FRAME: 0618

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Michael C. Bednarek, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing assignment and acknowledged to me that he executed the same in his authorized capacity and acknowledged that execution of the same was a free will act and deed. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. CHUONG NGO Commission # 1625934 22/2011 Orange / IRVINE/ CA (County/City/State) Notary Public - California Orange County Comm. Expires Dec 7, 201 Dec 07 2012 () (Commission Expiry Date) (Notary Public: Signature and Name) SAID ASSIGNEE HEREBY acknowledges the aforesaid statements and accepts the aforesaid Assignment, transfer, and set over of said invention; AND, IN TESTIMONY WHEREOF, said ASSIGNEE hereunto sets its hand on the under-mentioned day and year. President St. Jude Medical, Atrial Fibrillation Division, Inc. Printed name: TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Jane J. Song, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing assignment and acknowledged to me that she executed the same in her authorized capacity and acknowledged that execution of the same was a free will act and deed. February 2012 Ramsey, St-Paul, Minnesota (County/City/State) (Notary Public: Signature and Name

Page 4 of 4

PATENT REEL: 027686 FRAME: 0619

RECORDED: 02/10/2012

Assignors' Initials