

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Alan de la Rama</td> <td>10/19/2012</td> </tr> <tr> <td>Cary Hata</td> <td>10/19/2012</td> </tr> <tr> <td>William Du</td> <td>08/06/2012</td> </tr> <tr> <td>Yongxing Zhang</td> <td>10/19/2012</td> </tr> </tbody> </table>		Name	Execution Date	Alan de la Rama	10/19/2012	Cary Hata	10/19/2012	William Du	08/06/2012	Yongxing Zhang	10/19/2012
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Alan de la Rama	10/19/2012										
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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										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12651074</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12651074						
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CORRESPONDENCE DATA											
Fax Number:	6517562808										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	6517562000										
Email:	evogt@sjm.com										
Correspondent Name:	Anne R. Carlberg										
Address Line 1:	St. Jude Medical, AF Division, Inc.										
Address Line 2:	One St. Jude Medical Drive										
Address Line 4:	St. Paul, MINNESOTA 55117										
ATTORNEY DOCKET NUMBER:	0F-048700US										
NAME OF SUBMITTER:	Emily A. Vogt										
Total Attachments: 5											

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ASSIGNMENT

WHEREAS, WE, Alan de la Rama of 11315 Felson Street, Cerritos, California 90703; Cary Hata of 39 Waterspout, Irvine, California 92620; William Du of 19886 Calle Lago, Walnut, California 91789; and Yongxing Zhang of 20 Foxcrest, Irvine, California 92620, hereinafter ASSIGNORS, have invented certain new and useful improvements in Flexible tip catheter with extended fluid lumen, for which United States patent application number 12/651,074 was filed on 31 December 2009;

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, MN 55117, 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 therefore 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 authorize ASSIGNEE, its successors and assigns, or anyone it may properly designate, to insert into this instrument the application number and filing date of said U.S. patent application once known;

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

Assignors' Initials  
AR CH WD [Handwritten initials]

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;

AND WE HEREBY FURTHER covenant and agree that this Assignment is effective as of 31 December 2009.

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

Date: 10/19/12 [Signature]  
Alan de la Rama

Date: 19 Oct. 2012 [Signature]  
Cary Hate

Date: 8-6-2012 [Signature]  
William Du

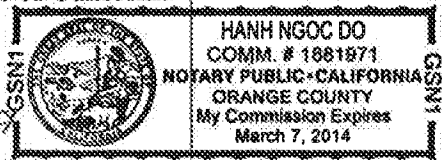
Date: Oct. 19, 2012 [Signature]  
Yongxing Zhang

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Alan de la Rama, 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.

Oct, 19, 2012 Orange/Irvine/California  
(Date) (County/City/State)

March 7, 2014 [Signature]  
(Commission Expiry Date) (Notary Public: Signature and Name)



SEAL

Assignors' Initials  
AR CH WD YZ

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Cary Hata, 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.

Oct. 19, 2012  
(Date)

Orange / Irvine / California  
(County/City/State)



March 7, 2014  
(Commission Expiry Date)

Hanh Do  
(Notary Public: Signature and Name)

SEAL

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared William Du, 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.

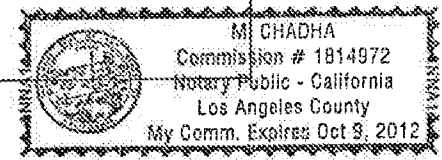
AUG. 6<sup>th</sup> 2012  
(Date)

Los Angeles, Diamond Bar, California  
(County/City/State)

SEAL

10-09-2012  
(Commission Expiry Date)

M. Chadha  
(Notary Public: Signature and Name)



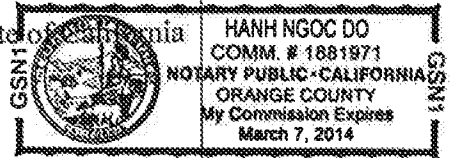
Assignors' Initials  
AR CH WD

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Yongxing Zhang, 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.

Oct. 19, 2012 Orange/Irvine/California  
(Date) (County/City/State)

March 7, 2014 HANH DO  
(Commission Expiry Date) (Notary Public: Signature and Name)



SEAL

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.

\_\_\_\_\_  
(Date) (ASSIGNEE: Signature)  
Jane J. Song  
President  
St. Jude Medical, Atrial Fibrillation Division, Inc.

\_\_\_\_\_  
(Witness: Signature)  
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.

\_\_\_\_\_  
(Date) (County/City/State)

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

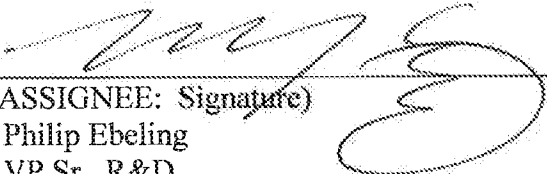
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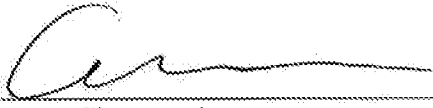
Assignors' Initials  
AR CH WD YZ

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.

12/10/12  
(Date)

  
\_\_\_\_\_  
(ASSIGNEE: Signature)  
Philip Ebeling  
VP Sr., R&D  
St. Jude Medical, Atrial Fibrillation Division, Inc.

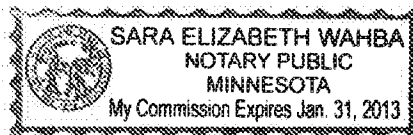
  
\_\_\_\_\_  
(Witness: Signature)  
Printed name: Christina Crocker

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Philip Ebeling, 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.

12-10-12                      Hennepin / Plymouth / Minnesota  
(Date)                              (County/City/State)

1-31-2013                      Sara E. Wahba  
(Commission Expiry Date)      (Notary Public: Signature and Name)

SEAL



Assignor's Initials  
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