

## 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>Saurav Paul</td> <td>11/03/2012</td> </tr> <tr> <td>Harry A. Puryear</td> <td>11/03/2012</td> </tr> <tr> <td>Riki Thao</td> <td>10/26/2012</td> </tr> <tr> <td>Hong Cao</td> <td>11/01/2012</td> </tr> </tbody> </table>		Name	Execution Date	Saurav Paul	11/03/2012	Harry A. Puryear	11/03/2012	Riki Thao	10/26/2012	Hong Cao	11/01/2012
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Saurav Paul	11/03/2012										
Harry A. Puryear	11/03/2012										
Riki Thao	10/26/2012										
Hong Cao	11/01/2012										
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>13555929</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13555929						
Property Type	Number										
Application Number:	13555929										
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:	0B-056002US										
NAME OF SUBMITTER:	Emily A. Vogt										
Total Attachments: 8											

CH \$40.00 13555929

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**ASSIGNMENT**

WHEREAS, WE, Saurav Paul of 601 Main Street SE, Minneapolis, Minnesota 55414; Harry A. Puryear of 648 Sunset Court, Shoreview, Minnesota 55126; Riki Thao of 1687 Village Trail East, Unit 2, Maplewood, Minnesota 55109; and Hong Cao of 13511 Hillsboro Avenue, Savage, Minnesota 55378, hereinafter ASSIGNORS, have invented certain new and useful improvements in Pressure-sensitive flexible polymer bipolar electrode, for which United States patent application number 13/555,929 was filed on 23 July 2012;

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, 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

SP      HAP      RT      HC

AND WE HEREBY FURTHER covenant and agree that this Assignment is effective as of 23 July 2012.

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

Date: Nov. 3, 2012 [Signature]  
Saurav Paul

Date: 03 Nov 12 [Signature]  
Harry A. Puryear

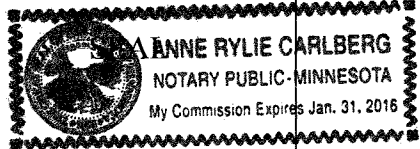
Date: 10-26-12 [Signature]  
Riki Thao

Date: \_\_\_\_\_  
Hong Cao

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

3 November 2012 Hennepin / Medina / Minnesota  
(Date) (County/City/State)

31 January 2016 [Signature]  
(Commission Expiry Date) (Notary Public: Signature and Name)

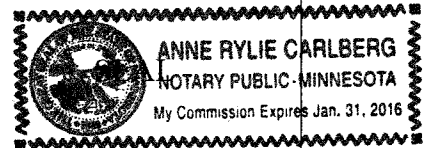


Assignors' Initials  
SP / HAP / RT / HC  
SP HAP RT HC

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Harry A. Puryear, 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.

3 November 2012  
(Date)

Ramsey / St. Paul / Minnesota  
(County/City/State)



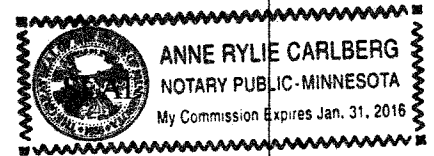
31 January 2016  
(Commission Expiry Date)

Anne Rylie Carlberg  
(Notary Public: Signature and Name)

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

26 October 2012  
(Date)

Ramsey / St. Paul / Minnesota  
(County/City/State)



31 January 2016  
(Commission Expiry Date)

Anne Rylie Carlberg  
(Notary Public: Signature and Name)

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

\_\_\_\_\_  
(Date)

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

SEAL

\_\_\_\_\_  
(Commission Expiry Date)

\_\_\_\_\_  
(Notary Public: Signature and Name)

Assignors' Initials

SP / HAP / RT / HC

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.

11/19/12.  
(Date)

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

[Signature]  
(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.

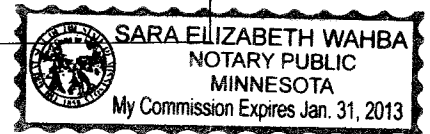
11-19-2012  
(Date)

Hennepin / Plymouth / MN  
(County/City/State)

1-31-2013  
(Commission Expiry Date)

Sara Wahba  
(Notary Public: Signature and Name)

SEAL



Assignors' Initials  
SP / HAP / RT / HC

**ASSIGNMENT**

WHEREAS, WE, Saurav Paul of 601 Main Street SE, Minneapolis, Minnesota 55414; Harry A. Puryear of 648 Sunset Court, Shoreview, Minnesota 55126; Riki Thao of 1687 Village Trail East, Unit 2, Maplewood, Minnesota 55109; and Hong Cao of 17733 62nd Court North, Maple Grove, Minnesota 55311, hereinafter ASSIGNORS, have invented certain new and useful improvements in Pressure-sensitive flexible polymer bipolar electrode, for which United States patent application number 13/555,929 was filed on 23 July 2012;

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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;

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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

SP      /      HAP      /      RT      /      HC

AND WE HEREBY FURTHER covenant and agree that this Assignment is effective as of 23 July 2012.

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

Date: \_\_\_\_\_  
Saurav Paul

Date: \_\_\_\_\_  
Harry A. Puryear

Date: \_\_\_\_\_  
Riki Thao

Date: Nov 1, 2012 \_\_\_\_\_  
Hong Cao

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

11/1/2012  
(Date)

Henn. Maple Grove, MN  
(County/City/State)



1/31/16  
(Commission Expiry Date)

Sandra Bouten  
(Notary Public: Signature and Name)

Assignors' Initials  
SP / HAP / RT / HC



TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Harry A. Puryear, 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.

\_\_\_\_\_  
(Date)

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

SEAL

\_\_\_\_\_  
(Commission Expiry Date)

\_\_\_\_\_  
(Notary Public: Signature and Name)

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

\_\_\_\_\_  
(Date)

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

SEAL

\_\_\_\_\_  
(Commission Expiry Date)

\_\_\_\_\_  
(Notary Public: Signature and Name)

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

\_\_\_\_\_  
(Date)

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

SEAL

\_\_\_\_\_  
(Commission Expiry Date)

\_\_\_\_\_  
(Notary Public: Signature and Name)

Assignors' Initials

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
SP HAP RT HC

Page 3 of 4

**PATENT**  
**REEL: 029398 FRAME: 0785**

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.

11/19/12  
(Date)

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

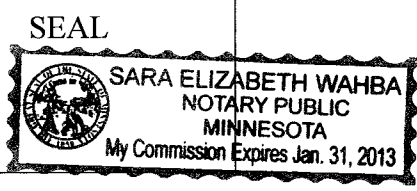
[Signature]  
(Witness: Signature)  
Printed name: Christine Crocker

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.

11-19-2012 Hennepin/Plymouth/MN  
(Date) (County/City/State)

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

Sara Wahba



Assignors' Initials  
SP HAP RT HC