

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3972058

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PETER N. BRAIDO	08/28/2015
MINA S. FAHIM	03/11/2016
STEVEN FREDERICK ANDERL	08/28/2015
JASON WHITE	08/26/2015
PAUL E. ASHWORTH	08/27/2015
MORGAN LOW	09/09/2015
LOELL BOYCE MOON	08/28/2015
NEELAKANTAN SAIKRISHNAN	08/27/2015
<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>
Application Number:	14825471
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(908)654-0415
<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>	(908) 518-6335
<b>Email:</b>	assignment@lerner david.com
<b>Correspondent Name:</b>	LDLK&M
<b>Address Line 1:</b>	600 SOUTH AVENUE WEST
<b>Address Line 4:</b>	WESTFIELD, NEW JERSEY 07090
<b>ATTORNEY DOCKET NUMBER:</b>	STJUDE 3.0F-358
<b>NAME OF SUBMITTER:</b>	MELINDA C. CORMIER
<b>SIGNATURE:</b>	/Melinda C. Cormier/

<b>DATE SIGNED:</b>	07/21/2016
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**Total Attachments: 9**

- source=1814 - Executed Assignments#page1.tif
- source=1814 - Executed Assignments#page2.tif
- source=1814 - Executed Assignments#page3.tif
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- source=1814 - Executed Assignments#page9.tif

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) STJUDE 3.0F-358 (E)
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Whereas, I, Peter N. Braido of 21460 Heidelberg St. NE; Wyoming, Minnesota 55092

hereafter referred to as assignor, have with others invented certain new and useful improvements in SENSORS FOR PROSTHETIC HEART DEVICES

for which an application for a United States Letters Patent was filed on August 13, 2015  
Application Number 14/825,471

for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_ and \_\_\_\_\_

Whereas, St. Jude Medical, Cardiology Division, Inc.  
a corporation of Delaware herein referred to as "assignee" whose mailing address is 177 East County Road B; St. Paul, Minnesota 55117

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

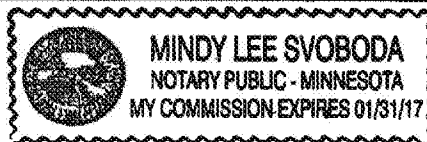
28 Aug 2015  
(Date)

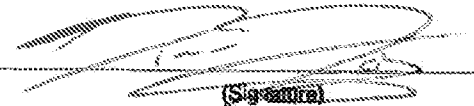
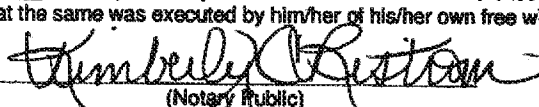
Peter Braido  
(Signature)

State of Minnesota ) SS:  
County of Sherburne )

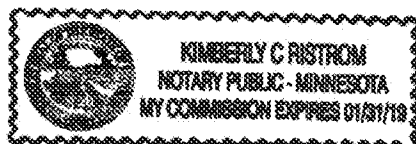
On this 28<sup>th</sup> day of August, 2015 before me personally came the above-named Peter N. Braido, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Mindy Lee SvoBoda  
(Notary Public)



<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) STJUDE 3.0F-358 (E)
<p>Whereas, I, <u>Mina S. Fahim</u> of <u>5899 Hamline Ave. N.; Shoreview, Minnesota 55126</u></p> <p>hereafter referred to as assignor, have with others invented certain new and useful improvements in <u>SENSORS FOR PROSTHETIC HEART DEVICES</u></p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>August 13, 2015</u> Application Number <u>14/825,471</u></p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____ and _____</p> <p>Whereas, <u>St. Jude Medical, Cardiology Division, Inc.</u> a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing address is <u>177 East County Road B; St. Paul, Minnesota 55117</u> is desirous of acquiring the entire right, title and interest in the same;</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u> ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p> <p>And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.</p> <p style="text-align: center;"><u>3/11/2016</u> (Date)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>State of <u>Minnesota</u> ) SS: County of <u>Chisago</u> )</p> </div> <div style="text-align: center;">  (Signature)         </div> </div> <p>On this <u>11th</u> day of <u>March 2016</u> before me personally came the above-named <u>Mina S. Fahim</u>, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.</p> <div style="text-align: center;">  (Notary Public)         </div>	

LD-528\



<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) STJUDE 3.0F-358 (E)
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Whereas, I, Steven Frederick Anderl of 24445 Imperial Court; Forest Lake, Minnesota 55025

hereafter referred to as assignor, have with others invented certain new and useful improvements in SENSORS FOR PROSTHETIC HEART DEVICES

for which an application for a United States Letters Patent was filed on August 13, 2015  
Application Number 14/825,471

for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
and \_\_\_\_\_

Whereas, St. Jude Medical, Cardiology Division, Inc.  
a corporation of Delaware herein referred to as "assignee" whose mailing address is 177 East County Road B; St. Paul, Minnesota 55117

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

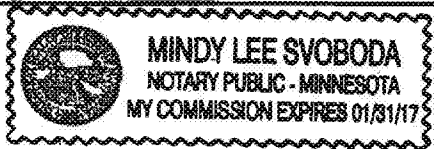
08/28/2015  
(Date)

[Signature]  
(Signature)

State of Minnesota ) SS:  
County of Shakopee )

On this 28th day of August, 2015 before me personally came the above-named Steven Frederick Anderl, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

[Signature]  
(Notary Public)



ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)  
STJUDE 3.0F-358 (E)

Whereas, I, Jason White of 2004 Ivy Ridge Rd.; Smyrna, Georgia 30080

hereafter referred to as assignor, have with others invented certain new and useful improvements in SENSORS FOR PROSTHETIC HEART DEVICES

for which an application for a United States Letters Patent was filed on August 13, 2015  
Application Number 14/825,471

for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
and \_\_\_\_\_

Whereas, St. Jude Medical, Cardiology Division, Inc.  
a corporation of Delaware herein referred to as "assignee" whose mailing address is  
177 East County Road B; St. Paul, Minnesota 55117

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

8/26/2015 (Date) Jason White (Signature)

State of Georgia ) SS: 354-76-9540  
County of Cobb )

On this 26<sup>th</sup> day of August, 2015 before me personally came the above-named Jason White, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Kelley L. Hill  
(Notary Public)



ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-358 (E)

Whereas, I, Paul E. Ashworth of 6464 260th St.; Wyoming, Minnesota 55092

hereafter referred to as assignor, have with others invented certain new and useful improvements in SENSORS FOR PROSTHETIC HEART DEVICES

[x] for which an application for a United States Letters Patent was filed on August 13, 2015 Application Number 14/825,471

[ ] for which an application for a United States Letters Patent was executed by me on and

Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of Delaware herein referred to as "assignee" whose mailing address is 177 East County Road B; St. Paul, Minnesota 55117

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

27 Aug 2015 (Date) Paul E. Ashworth (Signature)

State of Minnesota ) SS: County of Ramsey )

On this 27th day of August 2015 before me personally came the above-named Paul E. Ashworth, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Mary Ann Kaufhold (Notary Public)



**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)  
STJUDE 3.0F-358 (E)

Whereas, I, Morgan Low of  
8408 Lurline Ave.; Winnetka, California 91306

hereafter referred to as assignor, have with others invented certain new and useful improvements in  
SENSORS FOR PROSTHETIC HEART DEVICES

for which an application for a United States Letters Patent was filed on August 13, 2015  
Application Number 14/825,471

for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
and \_\_\_\_\_

Whereas, St. Jude Medical, Cardiology Division, Inc.  
a corporation of Delaware herein referred to as "assignee" whose mailing address is  
177 East County Road B; St. Paul, Minnesota 55117

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

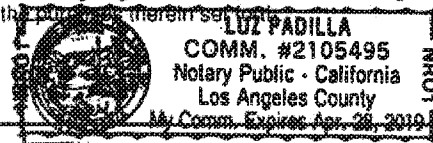
9/9/2015  
(Date)

[Signature]  
(Signature)

State of CALIFORNIA ) SS:  
County of Los Angeles )

On this 9<sup>th</sup> day of September 2015 before me personally came the above-named Morgan Low, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

[Signature]  
(Notary Public)





**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

**CIVIL CODE § 1189**

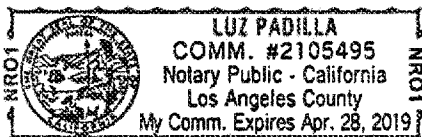
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California )  
County of Los Angeles )  
On 09-09-2015 before me, Luz Padilla, notary public  
Date Here Insert Name and Title of the Officer  
personally appeared Morgan Low  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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

WITNESS my hand and official seal.



Signature Luz Padilla  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

**Description of Attached Document**

Title or Type of Document: Assignment of Utility App Document Date: 8-13-2015  
Number of Pages: 1 Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian or Conservator  
 Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian or Conservator  
 Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_

**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)

STJUDE 3.0F-358 (E)

Whereas, I, Loell Boyce Moon of 4641 165th Avenue NE; Ham Lake, Minnesota 55304

hereafter referred to as assignor, have with others invented certain new and useful improvements in SENSORS FOR PROSTHETIC HEART DEVICES

for which an application for a United States Letters Patent was filed on August 13, 2015  
Application Number 14/825,471

for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_,  
and \_\_\_\_\_

Whereas, St. Jude Medical, Cardiology Division, Inc.  
a corporation of Delaware herein referred to as "assignee" whose mailing address is  
177 East County Road B; St. Paul, Minnesota 55117

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

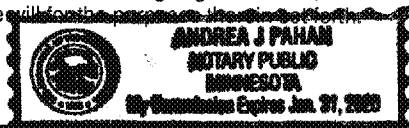
Aug 28, 2015  
(Date)

[Signature]  
(Signature)

State of Minnesota ) SS:  
County of Anoka )

On this 28th day of August 2015 before me personally came the above-named Loell Boyce Moon, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes hereinafter set forth.

[Signature]  
(Notary Public)



<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) STJUDE 3.0F-358 (E)
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Whereas, I, Neelakantan Saikrishnan of  
5109 Black Oaks Ct. N; Plymouth, Minnesota 55446

hereafter referred to as assignor, have with others invented certain new and useful improvements in  
SENSORS FOR PROSTHETIC HEART DEVICES

for which an application for a United States Letters Patent was filed on August 13, 2015  
Application Number 14/825,471

for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_,  
and \_\_\_\_\_

Whereas, St. Jude Medical, Cardiology Division, Inc.  
a corporation of Delaware herein referred to as "assignee" whose mailing address is  
177 East County Road B; St. Paul, Minnesota 55117

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

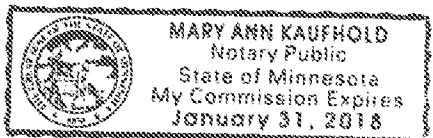
08/27/2015 (Date) [Signature] (Signature)

State of Minnesota ) SS:  
County of Hennepin )

On this 27<sup>th</sup> day of August, 2015 before me personally came the above-named Neelakantan Saikrishnan, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

Mary Ann Kaufhold  
(Notary Public)

LD-528\



**PATENT**