

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3925466

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOHN W. SLIWA	05/02/2016
ALON IZMIRLI	03/17/2016
ZHENYI MA	04/30/2016
TROY T. TEGG	06/03/2016
RECEIVING PARTY DATA	
Name:	ST. JUDE MEDICAL, CARDIOLOGY DIVISION, INC.
Street Address:	177 EAST COUNTY ROAD B
City:	ST. PAUL
State/Country:	MINNESOTA
Postal Code:	55117
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	61962466
PCT Number:	US2014064335
CORRESPONDENCE DATA	
Fax Number:	(651)756-2808
<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>	
Phone:	6517562000
Email:	jawe@sjm.com
Correspondent Name:	STEVEN R. FUNK
Address Line 1:	ST. JUDE MEDICAL, CD, INC.
Address Line 2:	177 EAST COUNTY ROAD B
Address Line 4:	ST. PAUL, MINNESOTA 55117
ATTORNEY DOCKET NUMBER:	0L-0403
NAME OF SUBMITTER:	JILLIAN K. AWE
SIGNATURE:	/Jillian K. Awe/
DATE SIGNED:	06/20/2016
Total Attachments: 21	

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ASSIGNMENT

WHEREAS, WE, John W. Sliwa of 38 North Almaden Blvd #2001, San Jose, California 95110; Alon Izmirlı of 11 Hasigaliot St., Ganot Hadar Israel 42930; Zhenyi Ma of 1981 Worthington Circle, Santa Clara, California 95050; and Troy T. Tegg of 19307 Baldwin St., Elk River, Minnesota 55330, hereinafter ASSIGNORS, have invented certain new and useful improvements in Medical device with contact force sensing tip, for which United States patent application number 61/962,466 was filed on 07 November 2013, and PCT patent application number PCT/US2014/064335 was filed on 06 November 2014;

AND WHEREAS St. Jude Medical, Cardiology Division, Inc., a corporation organized and existing under the laws of the State of Delaware, and having a business address at 177 East County Road B, 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 therefore throughout the world;

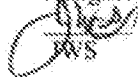
NOW, THEREFORE, for and in consideration of good and valuable consideration to us in hand paid by ASSIGNEE, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do hereby sell, assign, and transfer unto ASSIGNEE, its successors and assigns, our entire 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;

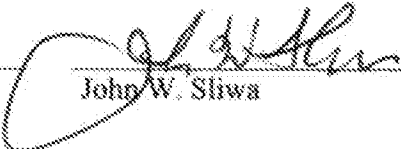
AND WE HEREBY covenant and agree with ASSIGNEE, its successors and assigns, that we have the full right to convey the entire interest assigned herein, and that we have not executed, and will not execute, any agreement in conflict herewith, and that we will not do any other act whatsoever conflicting 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

 WS AI ZM TT

AND WE HEREBY FURTHER covenant and agree that this Assignment is effective as of 07 November 2013.

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

Date: MAY 23 2016

John W. Sliwa

Date: _____
Alon Izmirli

Date: _____
Zhenyi Ma

Date: _____
Troy T. Tegg

Attached on notary cert

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.


TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared John W. Sliwa, 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) (County/City/State)

SEAL

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

Assignors' Initials
 JWS AI ZM TTT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

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 Santa Clara

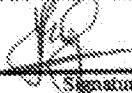
On 5/2/16 before me, Sunita Singh, Notary Public,
Date Name and Title of Officer

personally appeared John W. Slawa
(Name of Signer(s))

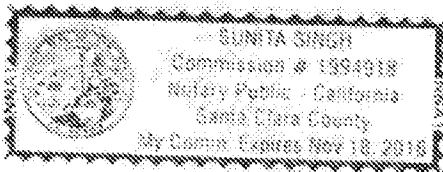
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s),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

My Commission Expires: Nov 18, 2016



Assignment

SFBayNotary.com

PATENT
REEL: 039080 FRAME: 0142

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.

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

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

(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 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.

(Date) (County/City/State)

SEAL

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

Assignors' Initials

 / JWS / AI / ZM / TTT

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)

Thomas A. Rendos
Vice President

.....
(Witness: Signature)

Printed name:

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

In witness whereof I hereby authenticate the signature of the aforementioned signee by my signature and seal

.....
(Date)


.....
(County/City/State)

SEAL

.....
(Commission Expiry Date)

.....
(Notary Public: Signature and Name)

Assignors' Initials

 TWS AI ZM TTT

ASSIGNMENT

WHEREAS, WE, John W. Sliwa of 38 North Almaden Blvd #2001, San Jose, California 95110; Alon Izmirlı of 11 Hasigaliot St., Ganot Hadar Israel 42930; Zhenyi Ma of 1981 Worthington Circle, Santa Clara, California 95050; and Troy T. Tegg of 19307 Baldwin St., Elk River, Minnesota 55330, hereinafter ASSIGNORS, have invented certain new and useful improvements in Medical device with contact force sensing tip, for which United States patent application number 61/962,466 was filed on 07 November 2013, and PCT patent application number PCT/US2014/064335 was filed on 06 November 2014;

AND WHEREAS St. Jude Medical, Cardiology Division, Inc., a corporation organized and existing under the laws of the State of Delaware, and having a business address at 177 East County Road B, 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 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 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

_____/ A.T. / ____/ ____/
JWS AI ZM TTT

AND WE HEREBY FURTHER covenant and agree that this Assignment is effective as of 07 November 2013.

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

Date: _____
John W. Sliwa

Date: 17 mars 2016 _____
Alon Izmirli

Date: _____
Zhenyi Ma

Date: _____
Troy T. Tegg

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.

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared John W. Sliwa, 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) (County/City/State)

SEAL

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

Assignors' Initials

JWS AI ZM TTT

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

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

(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 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.

(Date)

(County/City/State)

SEAL

(Commission Expiry Date)

(Notary Public: Signature and Name)

Assignors' Initials

/ AI / _____
JWS AI ZM TTT

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)

Thomas A. Rendos
Vice President

(Witness: Signature)

Printed name: _____

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

In witness whereof I hereby authenticate the signature of the aforementioned signee by my signature and seal

(Date)

(County/City/State)

SEAL

(Commission Expiry Date)

(Notary Public: Signature and Name)

Assignors' Initials

/ A-I /
JWS AI ZM TTT

ASSIGNMENT

WHEREAS, WE, John W. Sliwa of 38 North Almaden Blvd #2001, San Jose, California 95110; Alon Izmirli of 11 Hasigaliot St., Ganot Hadar Israel 42930; Zhenyi Ma of 1981 Worthington Circle, Santa Clara, California 95050; and Troy T. Tegg of 19307 Baldwin St., Elk River, Minnesota 55330, hereinafter ASSIGNORS, have invented certain new and useful improvements in Medical device with contact force sensing tip, for which United States patent application number 61/962,466 was filed on 07 November 2013, and PCT patent application number PCT/US2014/064335 was filed on 06 November 2014;

AND WHEREAS St. Jude Medical, Cardiology Division, Inc., a corporation organized and existing under the laws of the State of Delaware, and having a business address at 177 East County Road B, 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 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 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
 / / / /
JWS AI ZM TTT

AND WE HEREBY FURTHER covenant and agree that this Assignment is effective as of 07 November 2013.

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

Date: _____
John W. Sliwa

Date: _____
Alon Izmirli

Date: 4/30/2016 Zhenyi Ma
Zhenyi Ma

Date: _____
Troy T. Tegg

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.

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared John W. Sliwa, 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) (County/City/State)

SEAL

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

Assignors' Initials
JWS AI ZM TTT

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

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(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 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.

(Date)

(County/City/State)

SEAL

(Commission Expiry Date)

(Notary Public: Signature and Name)

Assignors' Initials

JWS AI ZM TTT

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)

Thomas A. Rendos
Vice President

.....
(Witness: Signature)

Printed name:

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

In witness whereof I hereby authenticate the signature of the aforementioned signee by my signature and seal

.....
(Date)

.....
(County/City/State)

SEAL

.....
(Commission Expiry Date)

.....
(Notary Public: Signature and Name)

Assignors' Initials

JWS AI ZM TTT

Page 4 of 4

PATENT
REEL: 039080 FRAME: 0152

ASSIGNMENT

WHEREAS, WE, John W. Sliwa of 38 North Almaden Blvd #2001, San Jose, California 95110; Alon Izmirlı of 11 Hasigaliot St., Ganot Hadar Israel 42930; Zhenyi Ma of 1981 Worthington Circle, Santa Clara, California 95050; and Troy T. Tegg of 19307 Baldwin St., Elk River, Minnesota 55330, hereinafter ASSIGNORS, have invented certain new and useful improvements in Medical device with contact force sensing tip, for which United States patent application number 61/962,466 was filed on 07 November 2013, and PCT patent application number PCT/US2014/064335 was filed on 06 November 2014;

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Assignors' Initials

JWS AI ZM TTT

AND WE HEREBY FURTHER covenant and agree that this Assignment is effective as of 07 November 2013.

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

Date: _____
John W. Sliwa

Date: _____
Alon Izmirli

Date: _____
Zhenyi Ma

Date: 6/3/16 _____
Troy T. Tegg

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.

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared John W. Sliwa, 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) (County/City/State)

SEAL

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

Assignors' Initials
JWS AI ZM TTT

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(Date) (County/City/State)

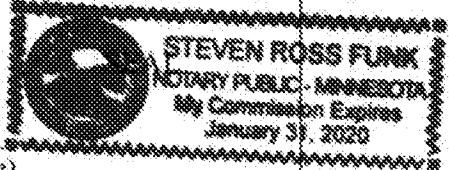
SEAL

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

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

6/3/16
(Date) HENNEPIN/PLYMOUTH/MN
(County/City/State)

1/31/2020
(Commission Expiry Date) STEVEN FUNK
(Notary Public: Signature and Name)



Assignors' Initials
JWS AI ZM TTT

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(Date)

(ASSIGNEE: Signature)
Thomas A. Rendos
Vice President

(Witness: Signature)

Printed name: _____

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

In witness whereof I hereby authenticate the signature of the aforementioned signee by my signature and seal

(Date)

(County/City/State)

SEAL

(Commission Expiry Date)

(Notary Public: Signature and Name)

Assignors' Initials

JWS AI ZM TTT

ASSIGNMENT

WHEREAS, WE, John W. Sliwa of 38 North Almaden Blvd #2001, San Jose, California 95110; Alon Izmirlil of 11 Hasigaliot St., Ganot Hadar Israel 42930; Zhenyi Ma of 1981 Worthington Circle, Santa Clara, California 95050; and Troy T. Tegg of 19307 Baldwin St., Elk River, Minnesota 55330, hereinafter ASSIGNORS, have invented certain new and useful improvements in Medical device with contact force sensing tip, for which United States patent application number 61/962,466 was filed on 07 November 2013, and PCT patent application number PCT/US2014/064335 was filed on 06 November 2014;

AND WHEREAS St. Jude Medical, Cardiology Division, Inc., a corporation organized and existing under the laws of the State of Delaware, and having a business address at 177 East County Road B, 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 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 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

JWS / AI / ZM / TTT

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.

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

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

.....
(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 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.

.....
(Date) (County/City/State)

SEAL

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

Assignors' Initials
.....
JWS AI ZM TTF

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.

6/20/2016
(Date)

[Signature]
(ASSIGNEE: Signature)
Thomas A. Rendos
Vice President

[Signature]
(Witness: Signature)

Printed name: Jiwan An

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

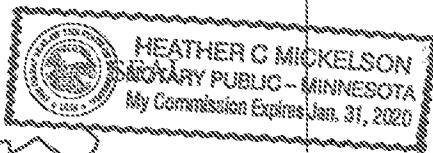
In witness whereof I hereby authenticate the signature of the aforementioned signee by my signature and seal

June 20, 2016
(Date)

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

January 31, 2020
(Commission Expiry Date)

[Signature]
(Notary Public: Signature and Name)



Assignors' Initials

JWS AI ZM TTT