

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6883058

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## CONVEYING PARTY DATA

Name	Execution Date
D CURTIS DENO	03/23/2016
RAM K. BALACHANDRAN	03/21/2016
STEPHANE MASSE	04/08/2016

## 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: 1

Property Type	Number
Application Number:	17200382

## CORRESPONDENCE DATA

Fax Number: (651)756-2808

*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.*

Phone: 6517562000

Email: jillian.awe@abbott.com

Correspondent Name: JAMES G. RODGERS

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:	CD-1069USC2
NAME OF SUBMITTER:	JILLIAN K. AWE
SIGNATURE:	/Jillian K. Awe/
DATE SIGNED:	08/25/2021

## Total Attachments: 8

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PATENT

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## ASSIGNMENT

WHEREAS, WE, D. Curtis Deno of 409 137th Lane NW, Andover, Minnesota 55304; Ram K. Balachandran of 18005 67th Place North, Maple Grove, Minnesota 55311; and Stéphane Massé of 122 Quebec Avenue, Toronto, Ontario, Canada M6P 2T6, hereinafter ASSIGNORS, have invented certain new and useful improvements in Systems and methods for orientation independent sensing, for which United States patent application number 62/160,376 was filed on 12 May 2015;

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

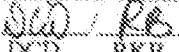
NOW, THEREFORE, for and in consideration of good and valuable consideration to us in hand paid by ASSIGNEE, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do hereby sell, assign, and transfer unto ASSIGNEE, its successors and assigns, our entire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

  
DCD    RKB    SM

AND I HEREBY FURTHER covenant and agree that this Assignment is effective as of 12 May 2015.

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

Date: 23 March 2016

*D. Curtis Deno*  
D. Curtis Deno

Date: 21 MAR 08 2016

*Ram K. Balachandran*  
Ram K. Balachandran

Date: \_\_\_\_\_

*Stéphane Massé*  
Stéphane Massé

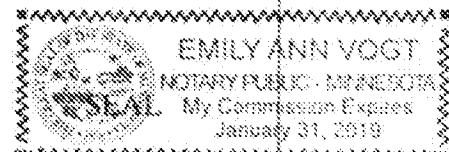
TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared D. Curtis Deno, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing assignment and acknowledged to me that he executed the same in his authorized capacity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

3/23/16  
(Date)

*Benton/St. Paul/Minnesota*  
(County/City/State)

1/31/19  
(Commission Expiry Date)

*Emily Ann Vogt*  
(Notary Public: Signature and Name)



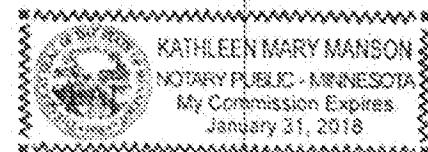
TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared Ram K. Balachandran, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing assignment and acknowledged to me that he executed the same in his authorized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

March 21, 2016  
(Date)

*Hennepin/Chanhassen/MN*  
(County/City/State)

1/31/18  
(Commission Expiry Date)

*Kathleen Mary Manson*  
(Notary Public: Signature and Name)



Assignors' Initials

*DCD / RKB / SM*  
DCD RKB SM

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place,  
personally appeared Stéphane Massé, 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) \_\_\_\_\_ (City/Country) \_\_\_\_\_

SEAL

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

Assignors' Initials  
ABR / RK /  
DCD RKR SM

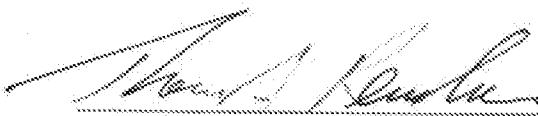
Page 3 of 4

PATENT  
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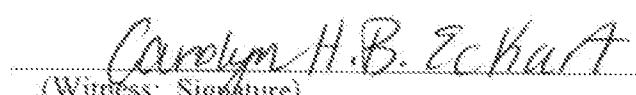
SAID ASSIGNEE HEREBY acknowledges the aforesaid statements and accepts the aforesaid Assignment, transfer, and set over of said invention;

AND, IN TESTIMONY WHEREOF, said ASSIGNEE hereunto sets its hand on the under-mentioned day and year.

4/15/2016  
(Date)

  
(ASSIGNEE: Signature)

Thomas A. Rendos  
Vice President

  
(Witness: Signature)

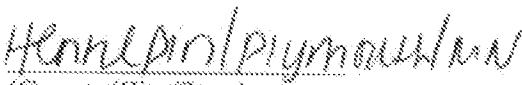
Printed name: Carolyn H.B. Eckart

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

4/15/2016

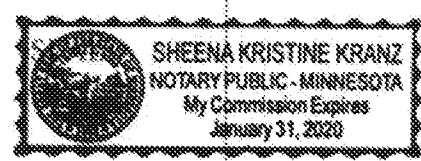
(Date)

  
(County/City/State)

1/31/2020

(Commission Expiry Date)

  
(Notary Public: Signature and Name)



Assignors' Initials  
/RGS/  
DCD RKB SM

## ASSIGNMENT

WHEREAS, WE, D. Curtis Deno of 409 137th Lane NW, Andover, Minnesota 55304; Ram K. Balachandran of 18005 67th Place North, Maple Grove, Minnesota 55311; and Stéphane Massé of 122 Quebec Avenue, Toronto, Ontario, Canada M6P 2T6, hereinafter ASSIGNS, have invented certain new and useful improvements in Systems and methods for orientation independent sensing, for which United States patent application number 62/160,376 was filed on 12 May 2015;

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

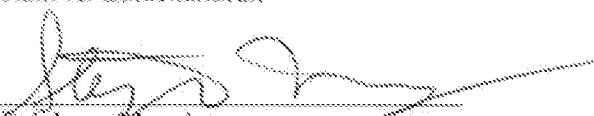
\_\_\_\_\_  
DCD      RKB      SM

AND I HEREBY FURTHER covenant and agree that this Assignment is effective as of  
12 May 2015.

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

Date: .....  
D. Curtis Deno

Date: .....  
Ram K. Balachandran

Date: 26/6/4/8  
  
Stéphane Masse

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place,  
personally appeared D. Curtis Deno, 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 Ram K. Balachandran, 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  
/ /   
DCD RKB SM

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

APR 08 2016

CITY/PROVINCE/COUNTRY  
TORONTO, ONTARIO, CANADA

(Date)

(City/Country)

JEFFERY A. BRIGGS  
Toronto Notary Public  
800 Bathurst Street, Suite 400  
Toronto, Ontario, M5R 3M8  
Tel: (416) 969-4158

SEAL

NOTARY PUBLIC FOR  
ONTARIO: LAWYER  
NO EXPIRY: L.R.U.C. #917848

(Commission Expiry Date)

(Notary Public: Signature and Name)



Assignors' Initials

/ / 

DCD RKB SM

Page 3 of 4

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.

4/15/2016  
(Date)

Thomas A. Rendos  
(ASSIGNEE: Signature)

Thomas A. Rendos  
Vice President

Carolyn H.B. Eckhart  
(Witness/Signature)

Printed name: Carolyn H.B. Eckhart

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.

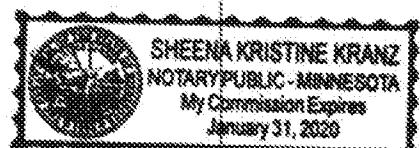
In witness whereof I hereby authenticate the signature of the aforementioned signee by my signature and seal

4/15/2016  
(Date)

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

1/31/2020  
(Commission Expiry Date)

SHEENA KRISTINE KRANZ  
(Notary Public: Signature and Name)



Assignors' Initials  
DCD / RKB / SM