

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5287021

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID JOHN COPELAND	12/14/2018
TRAVIS MICHAEL BECKERLE	12/02/2018
JOSEPH GORDON	12/03/2018
BRUCE EDWARD FROHMAN	12/14/2018
MICHAEL WILLIAM METZ	12/14/2018
SAVANNAH GRACE KYLE	12/14/2018
KELSEY HILL	12/05/2018
MICHAEL SHANE MORRISSEY	11/16/2018
<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:	15827401
<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) 518-6356
<b>Email:</b>	assignment@lernerdavid.com
<b>Correspondent Name:</b>	LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP
<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-392
<b>NAME OF SUBMITTER:</b>	MELINDA C. CORMIER
<b>SIGNATURE:</b>	/Melinda C. Cormier/

<b>DATE SIGNED:</b>	12/17/2018
<b>Total Attachments: 8</b> source=STJUDE 3.0F-392 (2423) Assignments#page1.tif source=STJUDE 3.0F-392 (2423) Assignments#page2.tif source=STJUDE 3.0F-392 (2423) Assignments#page3.tif source=STJUDE 3.0F-392 (2423) Assignments#page4.tif source=STJUDE 3.0F-392 (2423) Assignments#page5.tif source=STJUDE 3.0F-392 (2423) Assignments#page6.tif source=STJUDE 3.0F-392 (2423) Assignments#page7.tif source=STJUDE 3.0F-392 (2423) Assignments#page8.tif	

## ASSIGNMENT OF UTILITY APPLICATION

**Docket Number (Optional)**

STJUDE 3.0F-392

Whereas, I, Michael Shane Morrissey of  
1667 Highland Pkwy; St. Paul, Minnesota 55116

hereafter referred to as assignor, have with others invented certain new and useful improvements in

# TRANSCATHETER DELIVERY SYSTEM WITH TRANSVERSE WHEEL ACTUATION

☒ for which an application for a United States Letters Patent was filed on November 30, 2017

Application Number 15/827,401

☐ 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/429,315, filed December 2, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/429,315 pursuant to any law or treaty in the countries of the world.

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

K-De-12

(Date)

222

## Summary

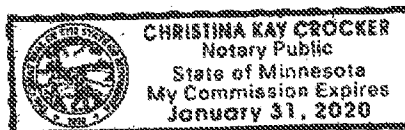
State of Minnesota ) ss:

County of Los Angeles

On this 16<sup>th</sup> day of November, 2018 before me personally came the above-named Michael Shane Morrissey, 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.

(Notary Public)

\*Total of forms are submitted.



## PATENT

REEL: 047796 FRAME: 0846

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>STJUDE 3.0F-392</b>
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Whereas, I, David John Copeland of 4409 Marlborough Court; Minnetonka, Minnesota 55345

hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSCATHETER DELIVERY SYSTEM WITH TRANSVERSE WHEEL ACTUATION

☒ for which an application for a United States Letters Patent was filed on November 30, 2017

Application Number 15/827,401

☐ 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/429,315, filed December 2, 2016, and in the invention disclosed therein in all countries of the world including the right to claim priority or benefit of said Application No. 62/429,315 pursuant to any law or treaty in the countries of the world.

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

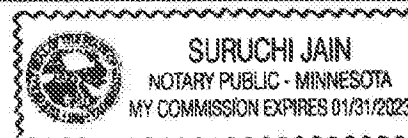
12/19/2018 (Date) P. Jain (Signature)

State of Minnesota ) ss:  
County of Hennepin )

On this 14<sup>th</sup> day of December, 2018 before me personally came the above-named David John Copeland, 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)

☐ \*Total of \_\_\_\_\_ forms are submitted.



# ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-392

Whereas, I, Travis Michael Beckerle of  
1624 Hague Avenue; St. Paul, Minnesota 55104

hereafter referred to as assignor, have with others invented certain new and useful improvements in

TRANSCATHETER DELIVERY SYSTEM WITH TRANSVERSE WHEEL ACTUATION

☒ for which an application for a United States Letters Patent was filed on November 30, 2017

Application Number 15/827,401

☐ 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/429,315, filed December 2, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/429,315 pursuant to any law or treaty in the countries of the world.

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

2 DEC 2018

(Date)

Travis Michael Beckerle

(Signature)

State of MINNESOTA ) SS: 496-98-7965  
County of RAMSEY )

On this 3 day of December, 2018, before me personally came the above-named Travis Michael Beckerle, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him in his own name and for the purposes therein set forth.

Pamela J. Johnson  
(Notary Public)



**Pamela J. Johnson**  
Notary Public, State of Minnesota  
My Commission Expires  
January 31, 2020

☐ \*Total of \_\_\_\_\_ forms are submitted.

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-392

Whereas, I, Joseph Gordon of  
79 Marshall Ave; Mansfield, Massachusetts 02048

hereafter referred to as assignor, have with others invented certain new and useful improvements in

TRANSCATHETER DELIVERY SYSTEM WITH TRANSVERSE WHEEL ACTUATION

☒ for which an application for a United States Letters Patent was filed on November 30, 2017

Application Number 15/827,401

☐ 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/429,315, filed December 2, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/429,315 pursuant to any law or treaty in the countries of the world.

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

12/3/18  
 (Date)

[Signature]  
 (Signature)

State of Rhode Island ) SS:  
 County of Providence )

On this 3 day of December, 2018 before me personally came the above-named Joseph Gordon, 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)

KIMBERLY MURPHY  
 Notary Public-State of Rhode Island  
 My Commission Expires  
November 24, 2019

☐ \*Total of \_\_\_\_\_ forms are submitted.

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-392

Whereas, I, Bruce Edward Frohman of  
3805 Deerwood Lane N, Plymouth Minnesota 55441

hereafter referred to as assignor, have with others invented certain new and useful improvements in

TRANSCATHETER DELIVERY SYSTEM WITH TRANSVERSE WHEEL ACTUATION

☒ for which an application for a United States Letters Patent was filed on November 30, 2017

Application Number 15/827,401

☐ 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/429,315, filed December 2, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/429,315 pursuant to any law or treaty in the countries of the world.

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

12/14/2018  
 (Date)

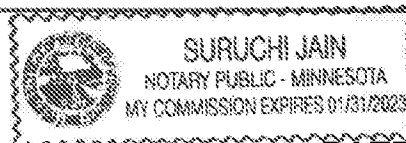
Bruce E. Frohman  
 (Signature)

State of Minnesota ) SS:  
 County of Hennepin )

On this 14<sup>th</sup> day of December, 2018 before me personally came the above-named Bruce Edward Frohman, 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)

☐ \*Total of \_\_\_\_\_ forms are submitted.



**PATENT**

**REEL: 047796 FRAME: 0850**

# ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-392

Whereas, I, Michael William Metz of  
4748 Lyndale Ave S, Apartment 2, Minneapolis, MN 55419

hereafter referred to as assignor, have with others invented certain new and useful improvements in

TRANSCATHETER DELIVERY SYSTEM WITH TRANSVERSE WHEEL ACTUATION

☒ for which an application for a United States Letters Patent was filed on November 30, 2017

Application Number 15/827,401

☐ 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/429,315, filed December 2, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/429,315 pursuant to any law or treaty in the countries of the world.

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

12/14/18  
(Date)

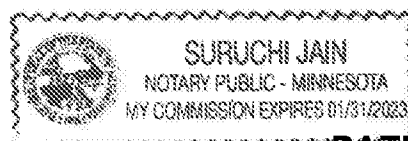
[Signature]  
(Signature)

State of Minnesota ) SS:  
County of Hennepin )

On this 14<sup>th</sup> day of December, 2018 before me personally came the above-named Michael William Metz, 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)

☐ \*Total of \_\_\_\_\_ forms are submitted.



PATENT

REEL: 047796 FRAME: 0851



<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>STJUDE 3.0F-392</b>
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Whereas, I, Savannah Grace Kyle of  
409 23<sup>rd</sup> Ave Northeast, Minneapolis, MN 55418  
hereafter referred to as assignor, have with others invented certain new and useful improvements in  
TRANSCATHETER DELIVERY SYSTEM WITH TRANSVERSE WHEEL ACTUATION  
☒ for which an application for a United States Letters Patent was filed on November 30, 2017  
Application Number 15/827,401  
☐ 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/429,315, filed December 2, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/429,315 pursuant to any law or treaty in the countries of the world.

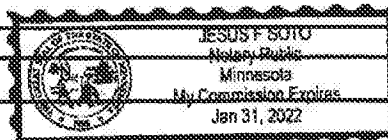
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

12/14/18 (Date)      [Signature] (Signature)

State of Minnesota ) SS: 013-76-6782  
County of  Hennepin  )

On this 14<sup>th</sup> day of December, 2018 before me personally came the above-named Savannah Grace Kyle, 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)

☐ \*Total of \_\_\_\_\_ forms are submitted.


## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-392

Whereas, I, Kelsey Hill of  
4948 Lyndale Ave S., Apt 2; Minneapolis, Minnesota 55419

hereafter referred to as assignor, have with others invented certain new and useful improvements in

TRANSCATHETER DELIVERY SYSTEM WITH TRANSVERSE WHEEL ACTUATION

☒ for which an application for a United States Letters Patent was filed on November 30, 2017

Application Number 15/827,401

☐ 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/429,315, filed December 2, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/429,315 pursuant to any law or treaty in the countries of the world.

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

12/05/18  
 (Date)

[Signature]  
 (Signature)

State of Colorado ) SS:  
 County of Boulder )

On this 5 day of December 2018 before me personally came the above-named Kelsey Hill, 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.

Tiffany Jean Frazer  
 (Notary Public)

**Tiffany Jean Frazer**  
**NOTARY PUBLIC**  
**STATE OF COLORADO**

NOTARY ID 20174035003

MY COMMISSION EXPIRES 08/28/21

☐ \*Total of \_\_\_\_\_ forms are submitted.

PATENT

RECORDED: 12/17/2018

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