

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5026618

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	CHRISTOPHER ALLEN WILSON	06/04/2018
	DAVID JOHN COPELAND	06/05/2018
	BRUCE EDWARD FROHMAN	06/04/2018
	TRAVIS MICHAEL BECKERLE	05/25/2018
	JOSEPH GORDON	06/07/2018
	SAVANNAH GRACE KYLE	06/22/2018
	MICHAEL SHANE MORRISSEY	06/01/2018
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:	15827436
CORRESPONDENCE DATA		
Fax Number:	(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>		
Phone:	(908) 518-6356	
Email:	assignment@lernerdavid.com	
Correspondent Name:	LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	
Address Line 1:	600 SOUTH AVENUE WEST	
Address Line 4:	WESTFIELD, NEW JERSEY 07090	
ATTORNEY DOCKET NUMBER:	STJUDE 3.0F-393	
NAME OF SUBMITTER:	MELINDA C. CORMIER	
SIGNATURE:	/Melinda C. Cormier/	
DATE SIGNED:	06/27/2018	

Total Attachments: 8

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ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-393

Whereas, I, Christopher Allen Wilson of
2741 Las Aromas Street, Oakland, California 94611

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

TRANSCATHETER DELIVERY SYSTEM WITH TWO MODES OF ACTUATION

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

Application Number 15/827,436

☐ 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. 62/429,361, 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. 62/429,361 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.

6-4-18
 (Date)


 (Signature)

State of CALIFORNIA) SS:
 County of UNITED STATES)

On this 4 day of JUNE, 2018 before me personally came the above-named Christopher Allen Wilson, 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.

EDWIN TIBERIO AGIS
 (Notary Public)

☐ *Total of _____ forms are submitted.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

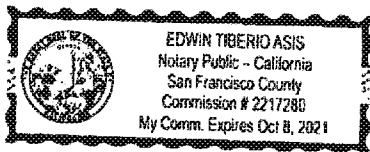
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
 County of SAN FRANCISCO)
 On JUNE 04, 2018 before me, EDWIN TIBERIO ASIS, NOTARY PUBLIC,
 Date Here Insert Name and Title of the Officer
 personally appeared CHRIS WILSON
 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 [Signature]
 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 APPLICATION
 Document Date: JUNE 04, 2018 Number of Pages: 1 of 1
 Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
<input type="checkbox"/> Corporate Officer — Title(s): _____	<input type="checkbox"/> Corporate Officer — Title(s): _____
<input type="checkbox"/> Partner — <input type="checkbox"/> Limited <input type="checkbox"/> General	<input type="checkbox"/> Partner — <input type="checkbox"/> Limited <input type="checkbox"/> General
<input type="checkbox"/> Individual <input type="checkbox"/> Attorney in Fact	<input type="checkbox"/> Individual <input type="checkbox"/> Attorney in Fact
<input type="checkbox"/> Trustee <input type="checkbox"/> Guardian or Conservator	<input type="checkbox"/> Trustee <input type="checkbox"/> Guardian or Conservator
<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____
Signer Is Representing: _____	Signer Is Representing: _____

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-393

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 TWO MODES OF ACTUATION

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

Application Number 15/827,436

☐ 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. 62/429,361, 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. 62/429,361 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.

JUN 5/2018
 (Date)

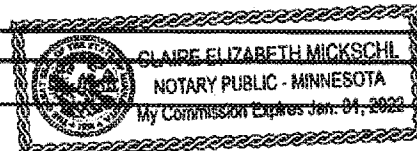
[Signature]
 (Signature)

State of Minnesota) SS:
 County of Hennepin)

On this 5 day of June, 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-393
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Whereas, I, Bruce Edward Frohman of 3805 Deerwood Lane North, Plymouth, Minnesota 55441

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

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

Application Number 15/827,436

☐ 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. 62/429,361, 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. 62/429,361 pursuant to any law or treaty in the countries of the world.

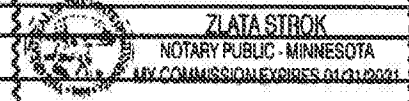
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

4 June 18 (Date) Bruce E Frohman (Signature)

State of Minnesota) ss:
 County of Hennepin)

On this 4 day of June, 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.

 (Notary Public)

<input type="checkbox"/> *Total of _____ forms are submitted.	
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ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) STJUDE 3.0F-393
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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 TWO MODES OF ACTUATION ☒ for which an application for a United States Letters Patent was filed on November 30, 2017 Application Number 15/827,436 ☐ 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. 62/429,361, 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. 62/429,361 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.

6/7/2018 (Date) Joseph Gordon (Signature)

State of Rhode Island) ss.
 County of Providence)

On this 7 day of June, 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.

Kimberly Murnan
(Notary Public)

KIMBERLY MURNAN
 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-393

Whereas, I, Savannah Grace Kyle of1702 Grand Street NE, Minneapolis, Minnesota 55413

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

TRANSCATHETER DELIVERY SYSTEM WITH TWO MODES OF ACTUATION☒ for which an application for a United States Letters Patent was filed on November 30, 2017Application Number 15/827,436☐ for which an application for a United States Letters Patent was executed by me on _____ andWhereas, St. Jude Medical, Cardiology Division, Inc.a corporation of Delaware herein referred to as "assignee" whose mailing address is177 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. 62/429,361, filed December 2, 2015, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/429,361 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.

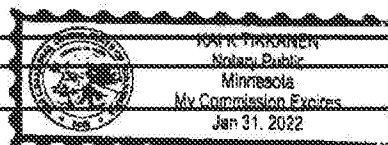
(Date) 6/22/18
 State of Minnesota) SS:
 County of Hennepin)

Savannah Grace Kyle
 (Signature)

On this 22nd day of June, 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-393

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 TWO MODES OF ACTUATION

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

Application Number 15/827,436

☐ 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. 62/429,361, 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. 62/429,361 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.

01-Jan-2018

(Date)

Christina Kay Crocker

(Signature)

State of Minnesota) SS:
County of Wright)



CHRISTINA KAY CROCKER
Notary Public
State of Minnesota
My Commission Expires
January 31, 2020

On this 1st day of June, 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.

Christina Kay Crocker
(Notary Public)

☐ *Total of _____ forms are submitted.

PATENT

RECORDED: 06/27/2018

REEL: 046215 FRAME: 0806