

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6339430

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BRIAN JOSEPH PERSZYK	08/17/2020
MATHIAS CHARLES GLIMSDALE	08/12/2020
THEODORE PAUL DALE	11/15/2018
JUSTIN HERBERT	10/01/2020
CHRISTOPHER WILLIAM HUNT	10/06/2020
BRYAN CHENG YANG GOH	10/01/2020
NATASHA LOUISE BOND	10/01/2020
ROSS DAVID PAULSON	10/02/2020
BRYAN CLARE PATRICK	10/02/2020
BENEDICT SKEMP	08/28/2020
<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:	15915196
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(908)654-7866
<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) 654-5000
<b>Email:</b>	assignment@lernerdavid.com
<b>Correspondent Name:</b>	LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP
<b>Address Line 1:</b>	20 COMMERCE DR.
<b>Address Line 4:</b>	CRANFORD, NEW JERSEY 07016
<b>ATTORNEY DOCKET NUMBER:</b>	ABTSJM 3.0F-389

<b>NAME OF SUBMITTER:</b>	KATHLEEN REYNOLDS
<b>SIGNATURE:</b>	/Kathleen Reynolds/
<b>DATE SIGNED:</b>	10/07/2020
<b>Total Attachments: 10</b> source=assignment#page1.tif source=assignment#page2.tif source=assignment#page3.tif source=assignment#page4.tif source=assignment#page5.tif source=assignment#page6.tif source=assignment#page7.tif source=assignment#page8.tif source=assignment#page9.tif source=assignment#page10.tif	

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-389

Whereas, I, Natasha Louise Bond of 1841 Sweet Clover Lane, Louisville, Colorado, 80027 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSESPTAL MITRAL VALVE DELIVERY SYSTEM

for which an application for a United States Letters Patent was filed on March 8, 2018  
Application Number 15/915,196

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

for which an International Application was filed on \_\_\_\_\_, as

\_\_\_\_\_ , designating the United States.

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 dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/469,646, filed March 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/469,646 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.

Oct 1, 2020  
(Date)

[Signature]  
(Signature)

State of COLORADO ) SS:

County of Boulder )

JACQUELINE L LOPEZ  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID# 19984027307  
MY COMMISSION EXPIRES MARCH 10, 2024

On this 1st day of October, 2020 before me personally came the above-named Natasha Louise Bond, 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 10 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-389

Whereas, I, Theodore Paul Dale of 6905 Old Settlers Road, Corcoran, Minnesota 55340 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSSEPTAL MITRAL VALVE DELIVERY SYSTEM

[X] for which an application for a United States Letters Patent was filed on March 8, 2018

Application Number 15/915,196

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

[ ] for which an International Application was filed on as

designating the United States.

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 dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/469,646, filed March 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/469,646 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.

11-15-2018

(Date)

Theodore P. Dale

(Signature)

State of MN ) SS: 470-96-1309

County of Anoka )

On this 15 day of November 2018 before me personally came the above-named Theodore Paul Dale, 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.

Michael Roy Teetzel (Notary Public)



[X] \*Total of 10 forms are submitted.

**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)

STJUDE 3.0F-389

Whereas, I, Mathias Charles Glimsdale of 624 Lincoln Dr. NE; St. Michael, Minnesota 55376 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSSEPTAL MITRAL VALVE DELIVERY SYSTEM

for which an application for a United States Letters Patent was filed on March 8, 2018

Application Number 15/915,196

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

for which an International Application was filed on \_\_\_\_\_ , as

\_\_\_\_\_ , designating the United States.

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 dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/469,646, filed March 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/469,646 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 AUG 2020

(Date)

Mat G

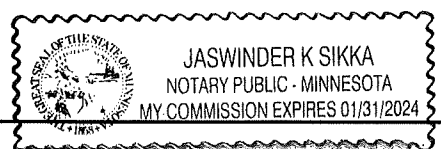
(Signature)

State of MN ) SS:

County of Ramsey

On this 12<sup>th</sup> day of Aug, 2020 before me personally came the above-named Mathias Charles Glimsdale, 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 10 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-389

Whereas, I, Bryan Cheng Yang Goh of 9402 Douglas Drive N, #306, Brooklyn Park, Minnesota 55429 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSSEPTAL MITRAL VALVE DELIVERY SYSTEM

for which an application for a United States Letters Patent was filed on March 8, 2018  
Application Number 15/915,196

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

for which an International Application was filed on \_\_\_\_\_, as

\_\_\_\_\_ , designating the United States.

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 dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/469,646, filed March 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/469,646 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 OCT 2020

(Date)

[Signature]

(Signature)

State of Minnesota ) SS:

County of Hennepin )

On this \_\_\_\_\_ day of \_\_\_\_\_ before me personally came the above-named Bryan Cheng Yang Goh, 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 10 forms are submitted.

**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)

STJUDE 3.0F-389

Whereas, I, Justin Herbert of 10820 110th Circle, Osseo, Minnesota 55369 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSSEPTAL MITRAL VALVE DELIVERY SYSTEM

for which an application for a United States Letters Patent was filed on March 8, 2018

Application Number 15/915,196

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

for which an International Application was filed on \_\_\_\_\_, as

\_\_\_\_\_, designating the United States.

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;

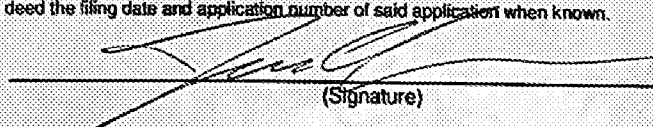
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/469,646, filed March 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/469,646 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 OCT 20

(Date)

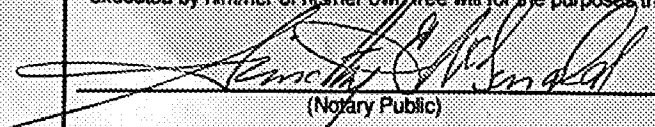


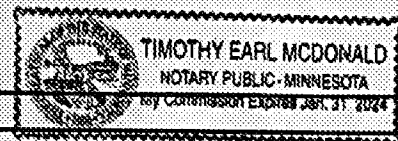
(Signature)

State of MN ) SS:

County of HENNEPIN

On this 1 day of OCT, 2020 before me personally came the above-named Justin Herbert, 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 10 forms are submitted.

PATENT

REEL: 053998 FRAME: 0593

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-389

Whereas, I, Christopher William Hunt of 19276 Twin Lakes Road NW, Elk River, Minnesota 55330 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSSEPTAL MITRAL VALVE DELIVERY SYSTEM

[X] for which an application for a United States Letters Patent was filed on March 8, 2018 Application Number 15/915,196

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

[ ] for which an International Application was filed on , as

, designating the United States.

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 dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/469,646, filed March 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/469,646 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.

06 Oct 2020 (Date)

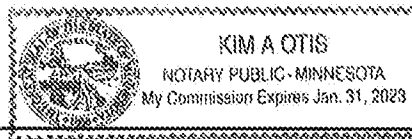
CHW (Signature)

State of Minnesota ) SS:

County of Hennepin )

On this 6th day of October, 2020 before me personally came the above-named Christopher William Hunt, 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.

Kim A Otis (Notary Public)



[X] \*Total of 10 forms are submitted.



ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-389

Whereas, I, Bryan Clare Patrick of 6413 104th Ave. N, Brooklyn Park, Minnesota, 55445, hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSSEPTAL MITRAL VALVE DELIVERY SYSTEM

for which an application for a United States Letters Patent was filed on March 8, 2018

Application Number 15/915,196

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

for which an International Application was filed on \_\_\_\_\_, as

\_\_\_\_\_ designating the United States.

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 dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/469,646, filed March 19, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/469,646 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.

02 OCT 2020

(Date)

Bryan Patrick

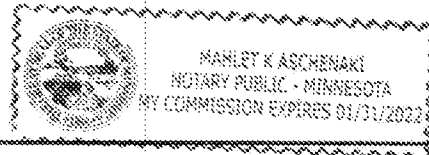
(Signature)

State of Minnesota ) SS:

County of Hennepin )

On this 2 day of October, 2020 before me personally came the above-named Bryan Clare Patrick, 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 10 forms are submitted.

**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)

STJUDE 3.0F-389

Whereas, I, Ross David Paulson of 19006 Ivanhoe Street NW, Elk River, Minnesota, 55330 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSSEPTAL MITRAL VALVE DELIVERY SYSTEM

for which an application for a United States Letters Patent was filed on March 8, 2018  
Application Number 15/915,196

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

for which an International Application was filed on \_\_\_\_\_, as

\_\_\_\_\_ , designating the United States.

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 dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/469,646, filed March 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/469,646 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.

6/2 Oct 2020  
(Date)

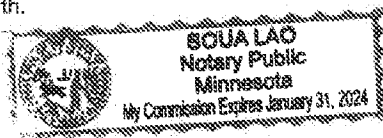
[Signature]  
(Signature)

State of Minnesota ) SS:

County of Hennepin )

On this 2 day of October, 2020 before me personally came the above-named Ross David Paulson, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/herself of his/her own free will for the purposes therein set forth.

[Signature]  
(Notary Public)



\*Total of 10 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0F-389

Whereas, I, Brian Joseph Parszyk of 3479 Harriet Ct. Shoreview, Minnesota 55126 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSSEPTAL MITRAL VALVE DELIVERY SYSTEM

for which an application for a United States Letters Patent was filed on March 8, 2018  
Application Number 15/915,196

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

for which an international Application was filed on \_\_\_\_\_, as \_\_\_\_\_, designating the United States.

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 dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/468,646, filed March 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/468,646 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.

17 Aug 2020  
(Date)

Brian Parszyk  
(Signature)

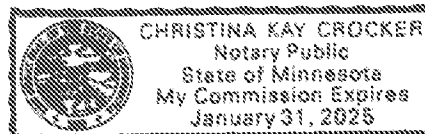
State of Minnesota ) SS:

County of Wright )

On this 17<sup>th</sup> day of August, 2020 before me personally came the above-named Brian Joseph Parszyk, 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 10 forms are submitted.



ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3 OF-389

Whereas, I, Benedict Skemp of 3216 Jersey Avenue South, St. Louis Park, Minnesota, 55426 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSSEPTAL MITRAL VALVE DELIVERY SYSTEM

for which an application for a United States Letters Patent was filed on March 8, 2018

Application Number 15/915,195

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

for which an International Application was filed on \_\_\_\_\_, as

\_\_\_\_\_ designating the United States.

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 dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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. 62/469,646, filed March 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/469,646 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.

28-Aug-20

(Date)

[Signature]

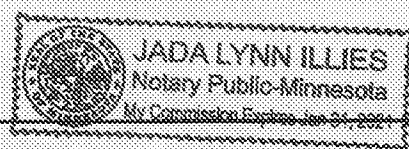
(Signature)

State of Minnesota ) SS:

County of Hennepin )

On this 28 day of August, 2020 before me personally came the above-named Benedict Skemp 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 10 forms are submitted.

PATENT