506292682 10/07/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6339430

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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

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:	15915196

CORRESPONDENCE DATA

Fax Number: (908)654-7866

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (908) 654-5000

Email: assignment@lernerdavid.com

LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Correspondent Name:

Address Line 1: 20 COMMERCE DR.

Address Line 4: CRANFORD, NEW JERSEY 07016

ATTORNEY DOCKET NUMBER: ABTSJM 3.0F-389

> **PATENT** REEL: 053998 FRAME: 0587

506292682

NAME OF SUBMITTER:	KATHLEEN REYNOLDS
SIGNATURE:	/Kathleen Reynolds/
DATE SIGNED:	10/07/2020
Total Attachments: 10	
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Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION 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 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 , designating the United States. Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of <u>Delaware</u> 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 coverant 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 freaty 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. (Signature) (Date) JACQUELINE L LOPEZ COLURADO State of NOTARY PUBLIC STATE OF COLORADO NOTARY ID# 19984027207 County of MY COMMISSION EXPIRES MARCH 10, 2014 before me personally came the above-named Natasha Louise On this 155 day of Do 22 Bit Bond, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the

X 10 *Total of

same was executed by him/her of his/her own free will for the purposes therein set forth.

forms are submitted.

(Notary Public)

A 40 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-389	
Whereas, I, <u>Theodore Paul Dale</u> of <u>6905 Old Settlers Road</u> ; <u>Corcoran, M</u> with others invented certain new and useful improvements in TRANSSI	innesota 55340 hereafter referred to as assignor, have EPTAL MITRAL VALVE DELIVERY SYSTEM	
X for which an application for a United States Letters Patent was filed on March 8, 2018		
Application Number <u>15/915,196</u>		
or which an application for a United States Letters Patent was executed by me on,		
for which an International Application was filed on	v as	
, designating the United States		
And		
Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of Delaware County Road B; St. Paul, Minnesota 55117 is desirous of acquiring the entire righ	herein referred to as "assignee" whose mailing address is 177 East t, title and interest in the same;	
is acknowledged, and other good and valuable consideration, I as assignor here and interest for the United States of America and all other countries in and to original, divisional, continuation, substitute or reissue applications and patents a all other countries, for said invention, including without limitation all applications aforesaid utility application pursuant to any law or treaty, and including all claims for and collect the same for its own use and the use of its successors, assigns priority or benefit and the Commissioner of Patents and Trademarks is hereby autor resulting therefrom to said assignee herein, as assignee of the entire interest theirs and assigns do hereby agree and coverant without further remuneration, the and other applications for Letters Patent on said improvements and all assignment assignee or its representatives all facts known to the undersigned respection interferences or other legal proceedings in which any of said applications or prightful oaths, and to do generally everything necessary to aid assignee, its succeimprovements in all countries, the expenses incident to said applications to be bound in the invention disclosed thereto in all countries of the world. And I do hereby authorize my attorneys to insert on this deed the filing date and a And I do hereby authorize my attorneys to insert on this deed the filing date and a And I do hereby authorize my attorneys to insert on this deed the filing date and a And I do hereby authorize my attorneys to insert on this deed the filing date and a And I do hereby authorize my attorneys to insert on this deed the filing date and a And I do hereby authorize my attorneys to insert on this deed the filing date and a And I do hereby authorize my attorneys to insert on this deed the filing date and a And I do hereby authorize my attorneys to insert on this deed the filing date and a And I do hereby authorize my attorneys to insert on this deed the filing date and a And I do hereby authorize my attorneys to insert on this deed the filing	said invention and the aforesaid utility patent application and all oplied for or granted therefor in the United States of America and a and patents for said invention claiming priority or benefit of the for damages by reason of past infringement with the right to sue and legal representatives, and including the right to claim such thorized and requested to issue all patents on said improvements herein; and the undersigned for me and my legal representatives, or execute and deliver all original, divisional, continuation, reissue not state thereof to said assignee or its assigns, to communicate to said any said improvements, whenever requested, to testify in any atents may become involved, to sign all lawful papers, make all essors, assigns and nominees to obtain patent protection for said me and paid by said assignee. It in United States Provisional Application No. 62/469,646, filed it including the right to claim priority or benefit of said Application	
(Dale)	(Signature)	
State of	0 9	
County of Anaka)		
On this \(\) day of \(\) \(\	rsonally came the above-named <u>Theodore Paul Dale</u> , instrument, who acknowledged to me that the same was t forth.	
Meile Publicy (Notary Public)	MICHAEL ROY TEETZEL NOTARY PUBLIC - MINNESOTA NY COMM. EXPRES 01/81/2022	
	NI COMM. EXPIRED UNDITIONES &	

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10 forms are submitted.

Docket Number (Optional)

ACCIONITERIT OF LITH INV. ADDITION TON	
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-389
Whereas, I, <u>Mathias Charles Glimsdale</u> of <u>624 Lincoln Dr. NE; St. Michalander Michalander St. Michalander St. Michalander St. Michalander Michal</u>	el, Minnesota 55376 hereafter referred to as assignor, ANSSEPTAL 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	inited on initiation of 2010
or which an application for a United States Letters Patent was e	xecuted by me on ,
for which an International Application was filed on	, as
, designating the United State	s.
And	
Whereas, <u>St. Jude Medical, Cardiology Division, Inc.</u> a corporation of <u>Delaware</u> County Road B; St. Paul, Minnesota 55117 is desirous of acquiring the entire right	herein referred to as "assignee" whose mailing address is 177 East nt, title and interest in the same;
NOW, THEREFORE, in consideration of the sum of is acknowledged, and other good and valuable consideration, I as assignor her and interest for the United States of America and all other countries in and to original, divisional, continuation, substitute or reissue applications and patents all other countries, for said invention, including without limitation all application aforesaid utility application pursuant to any law or treaty, and including all claim for and collect the same for its own use and the use of its successors, assign priority or benefit and the Commissioner of Patents and Trademarks is hereby at or resulting therefrom to said assignee herein, as assignee of the entire interest heirs and assigns do hereby agree and covenant without further remuneration, and other applications for Letters Patent on said improvements and all assignme assignee or its representatives all facts known to the undersigned respect interferences or other legal proceedings in which any of said applications or rightful oaths, and to do generally everything necessary to aid assignee, its succimprovements in all countries, the expenses incident to said applications to be before the patent of the proceedings of the work. (2017, and in the invention disclosed thereto in all countries of the work). And I do hereby authorize my attorneys to insert on this deed the filing date and	said invention and the aforesaid utility patent application and all applied for or granted therefor in the United States of America and s and patents for said invention claiming priority or benefit of the s for damages by reason of past infringement with the right to sue s and legal representatives, and including the right to claim such uthorized and requested to issue all patents on said improvements therein; and the undersigned for me and my legal representatives, to execute and deliver all original, divisional, continuation, reissue ents thereof to said assignee or its assigns, to communicate to said ing said improvements, whenever requested, to testify in any beatents may become involved, to sign all lawful papers, make all passors, assigns and nominees to obtain patent protection for said orne and paid by said assignee. The state of the said application is said application including the right to claim priority or benefit of said Application and including the right to claim priority or benefit of said Application.
(Date)	(Signature)
State of	
County of Rawsey	
On this 12 had day of, 2020 before me Glimsdale, to me personally known as the individual who executed the same was executed by him/her of his/her own free will for the purpose.	
~ ~ ~	······
- Saller }	JASWINDER K SIKKA
(Notary) ablic)	NOTARY PUBLIC - MINNESOTA \$ MY.COMMISSION EXPIRES 01/31/2024 \$
	WINEST.

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*Total of

10 forms are submitted.

Docket Number (Optional)

ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-389
Whereas, I, Bryan Cheng Yang Goh of 9402 Douglas Drive N. #306: Brox assignor, have with others invented certain new and useful improvement SYSTEM X for which an application for a United States Letters Patent was for Application Number 15/915,196 C Or which an application for a United States Letters Patent was executed for which an International Application was filed on	s in TRANSSEPTAL MITRAL VALVE DELIVERY iled on March 8, 2018
, designating the United States.	
And	
Whereas, St. Jude Medical, Cardiology Division, Inc. is corporation of Delaware 1 County Road B; St. Paul, Minnesota 55117 is desirous of acquiring the entire right	nerein referred to as "assignee" whose mailing address is 177 East title and interest in the same:
is acknowledged, and other good and valuable consideration, I as assignor here and interest for the United States of America and all other countries in and to a original, divisional, continuation, substitute or reissue applications and patents apail other countries, for said invention, including without limitation all applications afforesaid utility application pursuant to any law or treaty, and including all claims for and collect the same for its own use and the use of its successors, assigns priority or benefit and the Commissioner of Patents and Trademarks is hereby aut or resulting therefrom to said assignee herein, as assignee of the entire interest it heirs and assigns do hereby agree and covenant without further remuneration, to and other applications for Letters Patent on said improvements and all assignment assignee or its representatives all facts known to the undersigned respective interferences or other legal proceedings in which any of said applications or parightful oaths, and to do generally everything necessary to aid assignee, its successimprovements in all countries, the expenses incident to said applications to be bor I, as assignor, hereby assign to said assignee all of my right, title and interest March 10, 2017, and in the invention disclosed thereto in all countries of the world. And I do hereby authorize my attorneys to insert on this deed the filling date and applications.	said invention and the afcresaid utility patent application and all plied for or granted therefor in the United States of America and and patents for said invention claiming priority or benefit of the for damages by reason of past infringement with the right to sue and legal representatives, and including the right to claim such horized and requested to issue all patents on said improvements herein; and the undersigned for me and my legal representatives, execute and deliver all original, divisional, continuation, reissue to thereof to said assignee or its assigns, to communicate to said in said improvements, whenever requested, to testify in any tents may become involved, to sign all tawful papers, make all sacrs, assigns and norminees to obtain patent protection for said ne and paid by said assignee. In United States Provisional Application No. 62/469,646, filed it including the right to claim priority or benefit of said Application
(Date)	
(Date)	(Signature)
State of Manerota) SS: County of Heart- On this day of before me pe Goh, to me personally known as the individual who executed the foregon	rsonally came the above-named Bryan Chenc Yano
was executed by him/her of his/her own free will for the purposes therein (Notary Public)	n set forth,

X *Total of 10 forms are submitted.

Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION STJUDE 3.0F-389 Whereas, I. Justin Herbert of 10920 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 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 , designating the United States. Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of <u>Delaware</u> 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 self, 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 NOW, THEREFORE, in consideration of the sum of and measured of the 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 all other colonies, or sale invenion; recovery minor, including all claims for damages by reason of past infingement 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, 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 coveriant 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 filling date and application number of said application when known. (Signature) State of County of 2020 before me personally came the above-named <u>Justin Herbert</u>, to me On this 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.

forms are submitted.

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(Notary Public)

X

*Total of

TIMOTHY EARL MCDONALD NOTARY PUBLIC MINNESOTA

REEL: 053998 FRAME: 0593

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forms are submitted.

Docket Number (Optional)

STJUDE 3.0F-389

	01000F 2/21 -200
Whereas, I, <u>Christopher William Hunt</u> of <u>19276 Twin Lakes Road NW;</u> assignor, have with others invented certain new and useful improvemer SYSTEM	Elk River, Minnesota 55330 hereafter referred to as its in TRANSSEPTAL MITRAL VALVE DELIVERY
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 ex	recuted by me on ,
for which an International Application was filed on	, as
, designating the United State	s.
And	No. of the second secon
Whereas, <u>St. Jude Medical, Cardiology Division, Inc.</u> a corporation of <u>Delaware</u> County Road B; St. Paul, Minnesota 55117 is desirous of acquiring the entire rigi	nerein reterred to as assignee whose mailing address is 177 East of, fille and interest in the same;
is acknowledged, and other good and valuable consideration, I as assignor her and interest for the United States of America and all other countries in and to original, divisional, continuation, substitute or reissue applications and patents a all other countries, for said invention, including without limitation all application aforesaid utility application pursuant to any law or treaty, and including all claim for and collect the same for its own use and the use of its successors, assign priority or benefit and the Commissioner of Patents and Trademarks is hereby a or resulting therefrom to said assignee herein, as assignee of the entire interest heirs and assigns do hereby agree and covenant without further remuneration, and other applications for Letters Patent on said improvements and all assignme assignee or its representatives all facts known to the undersigned respect interferences or other legal proceedings in which any of said applications or prightful caths, and to do generally everything necessary to aid assignee, its suclimprovements in all countries, the expenses incident to said applications to be be	said invention and the aforesaid utility patent application and all applied for or granted therefor in the United States of America and is and patents for said invention claiming priority or benefit of the signary of the story
 as assignor, hereby assign to said assignee all of my right, title and intereduced the said of the work of the world. 	
And I do hereby authorize my attorneys to insert on this deed the filing date and	
06 Oct 2020 CAL	\mathcal{A}
(Date)	(Signature)
State of Minnesolec) ss:	
County of Henniger)	
A to the second of the second	
Kin A Otto (Notary Public)	KIM A OTIS NOTARY PUBLIC MINNESOTA My Commission Expires Jan. 31, 2023
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ASSIGNMENT OF UTILITY APPLICATION	ST	JUDE 3.0F-389
Whereas, I. Bryan Clare Pairick of 6413 104th Ave. N: Brooklyn Park, Mi with others invented certain new and useful improvements in TRANSSI X tor which an application for a United States Letters Patent was Application Number 15/915, 196 Con which an application for a United States Letters Patent was ex-	EPTAL MITRAL VALVE	DELIVERY SYSTEM
for which an International Application was filed on	, 8	\$
, designating the United State	ş.	
And		
Whereas, St. Jude Medical, Cardiology Division, Inc., a corporation of Delaware County Road B, St. Paul, Minnesota 55117 is destrous of acquiring the entire rigit NOW, THEREFORE, in consideration of the sum of a software developed, and other good and valuable consideration. I as assignor her and interest for the United States of America and all other countries in and to original, divisional, continuation, substitute or reissue applications and patents of other countries, for said invention, including without limitation all explication atoresaid utility application pursuant to any law or treaty, and including all claim for and collect the same for its own use and the use of its successors, assign priority or benefit and the Commissioner of Patents and Trademarks is hereby a or resulting therefrom to said assignee herein, as assignee of the entire interest heirs and assigns do hereby agree and coverant without further remuneration, and other applications for Latiers Patent on said improvements and all assignme assignee or its representatives all farits known to the undersigned respectivenesses or other legal proceedings in which any of said applications to be built-interestic in all countries, the expenses incident to said applications to be built, as assignor, hereby assign to said assignee all of my right, title and interest March 10, 2017, and in the invention disclosed thereto in all countries of the world. And I do hereby authorize my attorneys to insert on this deed the filing date and	at, title and interest in the social (\$ 1.00 aby self, assign and self disard invention and the assign and self disard invention and the assign and self disard in said invention and legal representative of the assign and legal representative of the execute and deliver all the undersign to execute and deliver all ints thereof to said assigning said improvements, astems may become involvescore, assigns and nomorne and paid by said assignist in United States Province and including the right to disclosure assigns the right to disclosure as as as a significant of the right to disclosure and paid the right to disclosure as as a significant as a significant as a significant and paid by said assigns and including the right to disclosure and paid the right to disclosure as a significant and as a significant and as a significant and as a significant as a significant and as a significant a	isame;), the receipt whereof wer to said assignee my entire right, little foresaid utility patent application and all effor in the United States of America and wention claiming priority or benefit of the of past infringement with the right to sue as, and including the right to claim such places are precised in the said improvements hed for me and my legal representatives, original, divisional, continuation, reissue see or its assigns, to communicate to said whenever requested, to testify in any lived, to sign all lawful papers, make all linees to obtain patent protection for said gnee. sional Application No. 62/469,646, filed aim priority or benefit of said Application.
(Date)	(Signatus	9)
State of		
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X *Total of 10 forms are submitted.		

Docket Number (Optional)

D G ADD ADD K ADD A DE SAN CHONG DE LE CONTRE DE LE CONTR	S1JUDE 3.0F-389
Whereas, I, <u>Ross David Paulson</u> of <u>19006 Ivanhoe Street NW. Elk River.</u> with others invented certain new and useful improvements in TRANSS	Minnesota 55330 hereafter referred to as assignor, have EPTAL MITRAL VALVE DELIVERY SYSTEM
Tor which an application for a United States Letters Patent was	filed on <u>March 8, 2018</u>
Application Number 15/915.196 or which an application for a United States Letters Patent was a	vocuted by me on
,,,,,,,,	
for which an International Application was filed on , designating the United State	, as
And	
Whereas, <u>St. Jude Medical, Cardiology Division, Inc.</u> a corporation of <u>Delaware</u> County Road B; St. Paul, Minnesota 55117 is desirous of acquiring the entire rigi	ht, title and interest in the same;
NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration. I as assignor her and interest for the United States of America and all other countries in and to original, divisional, continuation, substitute or reissue applications and patents all other countries, for said invention, including without limitation all application aforesaid utility application pursuant to any law or treaty, and including all claim for and collect the same for its own use and the use of its successors, assign priority or benefit and the Commissioner of Patents and Trademarks is hereby a or resulting therefrom to said assignee herein, as assignee of the entire interest heirs and assigns do hereby agree and covenant without further remuneration, and other applications for Letters Patent on said improvements and all assignme assignee or its representatives all facts known to the undersigned respectively interferences or other legal proceedings in which any of said applications or rightful oaths, and to do generally everything necessary to aid assignee, its successory in all countries, the expenses incident to said applications to be but a sassignor, hereby assign to said assignee all of my right, title and interest March 10, 2017, and in the invention disclosed thereto in all countries of the workers.	seaid invention and the aforesaid utility patent application and all applied for or granted therefor in the United States of America and is and patents for said invention claiming priority or benefit of the is for damages by reason of past infringement with the right to sue is and legal representatives, and including the right to claim such authorized and requested to issue all patents on said improvements therein; and the undersigned for me and my legal representatives, to execute and deliver all original, divisional, continuation, reissue ents thereof to said assignee or its assigns, to communicate to said ting said improvements, whenever requested, to testify in any patents may become involved, to sign all lawful papers, make all cessors, assigns and nominees to obtain patent protection for said ome and paid by said assignee.
No. 62/469,646 pursuant to any law or freaty in the countries of the world. And I do hereby authorize my attorneys to insert on this deed the filing date and	
<i>X</i>	
	7 (Clarick Ire)
(Date)	(Signature)
State of <u>Minnesta</u>) SS:	
County of <u>Henripin</u>)	
On this 2 day of 270 year, 2020 before in Paulson, to me personally known as the individual who executed the same was executed by him/her/or his/her own free will for the purpose (Neter) Public)	ne personally came the above-named <u>Ross David</u> e foregoing instrument, who acknowledged to me that the is therein set forth. SOUA LAO Notary Public Minnesota in Connision Exists January 31, 2024
X *Total of 10 forms are submitted.	

Docket Number (Optional)

	STUUDE 3.0F-389
Whereas, I. <u>Brian Joseph Perszyk</u> of <u>3479 Harriet Ct.</u> <u>Shoreview, Minne</u> others invented certain new and useful improvements in TRANSSEPT X for which an application for a United States Letters Patent was Application Number <u>15/915.198</u> or which an application for a United States Letters Patent was a for which an international Application was filed on	AL MITRAL VALVE DELIVERY SYSTEM Med on Merch 8, 2018 Executed by me bo
, designating the United State	
And	
Whereas, St. Jude Madical, Cardiology Division, Inc., a corporation of <u>Delawars</u> County Road B; St. Paul, Minnesota 55117 is desirous of acquiring the entire rigit	herein referred to as "assignee" whose mailing address is 177 East ht, title and interest in the same;
is acknowledged, and other good and valueble consideration, I as assignor her and interest for the United States of America and ell other countries in and to original, divisional, continuation, substitute or release applications and patents all other countries, for said invention, including without limitation all application aforesaid utility application pursuant to any law or treaty, and including all claim for and collect the same for its own use and the use of its successors, assign priority or benefit and the Commissioner of Patents and Trademarks is hereby a or resulting therefrom to said assignee hereby, as assignee of the entire interest heirs and assigns do hereby agree and coverant without further remuneration, and other epplications for Letters Petent on said improvements and all assignments assignee or its representatives all facts known to the undersigned respect interierences or other legal proceedings in which any of said applications or prophilit asths, and to do generally everything necessary to all assignee, its successoryments in all countries, the expenses haddent to said applications to be be also as a saignor, hereby assign to said assignee all of my right, title and interest March 10, 2017, and in the invention disclosed thereto in all countries of the works. And I do hereby authorize my attorneys to insert on this deed the filing date and	said invention and the aforesaid utility patent application and all applied for or granted therefor in the United States of America and a serial patents for said invention claiming priority or benefit of the soft for damages by reason of past infringement with the right to sue a not legal representatives, and including the right to claim such uthorized and requested to issue all patents on said improvements discretin; and the andersigned for me and my legal representatives, to execute and deliver all original, divisional, continuation, reissue into thereof to said assignee or its assigns, to communicate to said ting said improvements, whenever requested, to testify in any betants may become involved, to sign all lawful papers, make all cessors, assigns and nominees to obtain patent protection for said owner and paid by said assignee. Let in United States Provisional Application No. 62/466,645, filed and including the right to claim priority or benefit of said Application application number of said application when known.
11 Aug 2020 - Lakery	/ ************************************
(Date)	/ (Signature)
State of Minnesota) SS: County of Wingst) On this TT day of Asyst 2000 before many the many the individual who executed the same was executed by him/her of his/her own free will for the purposes (Notary Public)	e personally came the above-named <u>Brian Joseph</u> e foregoing instrument, who acknowledged to me that the
X *Total of 10 forms are submitted.	

CHRISTINA KAY CROCKER

Notsry Public

State of Minnesota

My Commission Expires

January 31, 2025

RECORDED: 10/07/2020

Docket Number (Optional)

Whereass, 1, Benedict Steam of 2216 Jensey 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		3,500,5301-	
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 designating the United States. And Whereas, St. Ande Medical, Cardiology Division, Inc., a corporation of Detaware herein referred to as "assignee" whose making address is 177 East County Road R. St. Paul, Mannesota 55117. Is discirous of acquiring the entire right; title and interest in the same. NOVY, THEREFORE, in consideration of the sum or one of the sum of one of the sum			
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 designating the United States. And Whereas, St. Ande Medical, Cardiology Division, Inc., a corporation of Detaware herein referred to as "assignee" whose making address is 177 East County Road R. St. Paul, Mannesota 55117. Is discirous of acquiring the entire right; title and interest in the same. NOVY, THEREFORE, in consideration of the sum or one of the sum of one of the sum	X for which an application for a United States Letters Palent	twas filed on MarCh 8, 2018	
designating the United States. And And And And And And And An	· · · · · · · · · · · · · · · · · · ·		
And Whereas, St. size Medical Cardinacy Division, Inc. a corporation of Delawarg herein referred to as "assignee" whose mating address is 177 East County Road R, St. Paul, Mannesota 55117 is desirous of acquiring the entire right, life and interest in the same; NOV, THERESORE, in consideration of the sum of collar (\$1.00), the receipt whereof is acknowledged, and other good and valuable consideration, it as assignor hereby self, 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 affersaid utility patient applications, continuation, substitute or reissue applications and patients applied for or granted therefor in the United States of America and entire countries in and to said invention and the affersaid utility application pursuant to any low or teachy, and including all claims for damages by reason of past infringement with the right to dain and collecting the same for its own uses and the user of its successors, assigns and feast propresentatives run including the source of Patients and Trademarks is hereby authorized and requested to issue all patients on said improvements in the university or benefit and fine Commissioner of Patients and Trademarks is hereby authorized and requested to issue all patients on said improvements, have and assigned hereits, as assigned to the entire through the university of the manner of the patients on said improvements and assigned to thereby agrees many and patients of said assigned to read assigned to the patients and assignments the	or which an application for a United States Letters Patent w	ras executed by me on	•
And Whereas, St. Jude Medical, Cardiology Division, Inc., a concernion of Delaware herein referred to as "assignees" whose making address is 177 East. County Road B; St. Paul, Mirroscotta 55:17 is desirous of acquaring the entire right, title and interest in the same. NOW, THEREFORE, in consideration of the sum of grad delay of the control of the sum of grad delay of the process of the same of the same of the sum of grad interest for the United States of America and all other countries in and to said invention and the aforesaid utility particular, substitute or release applications and petents applications and patents applications, substitute or release applications and patents for scalar invention, substitute or release applications and patents applied for or granted therefor in the United States of America and all other countries in and collect invention and sill original, divisional, continuation, substitute or release applications and patents for scalar invention by the United States of America and all other countries in and collect the same for the United States of America and all other contributions, the United States of America and all other contributions in the United States of America and at other contributions, the United States of America and information to a six in sown uses and the use of its successors, assigns and longer representatives, in their and collect the same for its own uses and the use of its successors, assigns and the support of its successors, assigns and the support of its successors, assigns and the support of the united the Same and the support of the united its successors, assigns and to a successor and assigns to hereby agree and coverant without further remuneration, to execute and deliver all inspirations for takets Patents or asid improvements in all cases and assignments are successors, assigns and incomments of the surveit patent proceedings in which any of asid applications to execute and elegated to refer as a surveit part of the invention disclosed therefor a sid adap	for which an International Application was filed on	. as	
County Fload B, St. Paul, Nimresota 55117 is desirous of acquiring the entire right, liftle 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, liftle and interest for the United States of America and all other countries in and to said invention and all original, divisional, cutilitization; substitute or reissue applications and petents applications and stitute and all diversions, and the same for said invention, including without similation all applications and patents for said invention claiming priority or benefit of the adoressaid utility application pursuant to amy law or breaty, and including all claims for dramages by mason of past infringement with the right to see fir and collect the same for its own uses 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 authoritized 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 assignee or the representatives at facts known to the undersignee or the representatives at facts known to the undersignee or the representatives at facts known to the undersignee or service assigns and other applications or patents whereof to said assignee or late representatives at facts known to the undersignee or said improvements, wherever requested, to tentify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to said improvements in all countries to other patents and the undersigneed of the filter and interest in United States Provisional Application No. 82/469.646, filed March 10, 2017, and in the individual who executed the filt		Statess.	
is acknowledged, and other good and valuable consideration, I as assignor the property self, assign and set over to said assignore my entire right, title and interest for the United States of America and all other countries in and to say invention and the aforesaid utility guiter applications and patents applications and patents applied for or granted filteration; including without similation at a sheer countries, for said invention, including without similation at a applications and patents for said remetion claiming priority or benefit of the adoresaid utility application pursuent to any lew or breaky, and including all claims for damages by reason of pest 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 providy or benefit or the Commissioner of Patents and Tradements is benefity authorized and responsible to listue all patents or seal improvements or resulting therefore to said assignee or resulting therefore to said assignee or resulting the representatives, and including the right to claim such provide and respectively agree and coverant without further remuneration, to execute and deversal original divisional, continuation, releases and other applications for Letters Patent on said improvements and other applications for Letters Patent on said improvements and other applications for Letters Patent on said improvements are presentatives as a facets known to the undersigned respecting said improvements, whenever requested, to said assignee or its representatives as the said assignee and applications or applications or applications and contribute of said application No. 62/469,646, filed blanch 10, 2017, and in the invention disclosed thereto in all countries in all countries, the experiences included to asaid applications to be borne and paid by said assignee. State of Japan 10, 2017, and in the invention disclosed thereto in all countries of the world including the right to sa	Whereas, <u>St. Jude Medical Cardinhopy Division, Inc.</u> a corporation of <u>Delay</u> County Road B, St. Paul, Minnesota 55117, is desirous of acquiring the entir	<u>ware</u> herein referred to as "assignee" whose ma e right, title and interest in the same;	oling address is 177 East
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said-application when known. County of	NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration, I as assignorand interest for the United States of America and all other countries in an original, divisional, continuation, substitute or reissue applications and pate all other countries, for said invention, including without similation all applic aforesaid utility application pursuant to any law or treaty, and including all of the rand collect the same for its own use and the use of its successors, as priority or trensfit and the Commissioner of Patents and Trademarks is here or resulting their from to said assignee herein, as assignee of the entire trits hers and assigns do hereby agree and coveriant without further remineral and other applications for Letters Patent on said improvements and all assigns injuries or its representatives all facts known to the undersigned resisted energy or other legal proceedings in which any of said applications rightful daths, and to do generally everything necessary to aid assignee, its improvements in all countries, the expenses incident to said applications to March 10, 2017, and in the invention disclosed thereto in all countries of the	dollar (\$ 1.00 in hereby sell, assign and set over to said assign to said invention and the aforesaid utility parts applied for or granted therefor in the Uniterations and patents for said invention claiming claims for damages by reason of past infringer ssigns and legal representatives, and including by authorized and requested to issue all pater prest therein; and the undersigned for me and although to execute and deliver all original division graments thereof to said assignee or its assigns specting said improvements, whenever requision patents may become involved, to sign all associates may become involved, to sign all associates on the borne and paid by said assignee.	gnee my entire right, tille satent application and all ad States of America and priority or benefit of the nent with the right to sue ig the right to claim such its on said improvements my sigal representatives, nat, continuation, reissue i, to communicate to said lested, to testify in any I tawkii papers, make all patent protection for said on No. 62/469,646, filed
State of		and application number of said application wh	en known.
State of	28-Aug-20		
County of	Y .	(Signature)	
On this S day of AAA Defore 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 the/her-own free will for the purposes therein set forth JADALYNN ILLES	State of \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
On this S day of AAA Defore 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 the/her-own free will for the purposes therein set forth JADALYNN ILLES	La Arnorpin		
executed by him/her of his/her own free will for the purposes therein set forth JADA LYNN ILLIES)		One and at Classes to
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PATENT

REEL: 053998 FRAME: 0598