#### 05/15/2018 504914730

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4961474

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
KRISTEN T. MORIN	11/23/2015
ANDREA N. PARA	12/07/2015
PETER N. BRAIDO	11/25/2015
SOUNTHARA KHOUENGBOUA	11/20/2015
THOMAS M. BENSON	11/24/2015
SARAVANA B. KUMAR	12/11/2015
BRUCE MOSEMAN	11/23/2015
GAURAV SATAM	12/02/2015

# **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:	15964413

### **CORRESPONDENCE DATA**

(908)654-0415 Fax Number:

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) 518-6335

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-339 CON CON	
NAME OF SUBMITTER:	KATHLEEN REYNOLDS	
SIGNATURE:	/Kathleen Reynolds/	

**PATENT REEL: 045805 FRAME: 0959** 

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Total Attachments: 8
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PATENT REEL: 045805 FRAME: 0960

tormer PTO/S0935 (B:60) Modded LDLX&M

	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-339 (E)	
Whereas, I, Kristen T. Morin	of	
1376 Portland Ave.; St. Paul, Minnesota 55104		
hereafter referred to as assignor, have with others invented certain		
TRANSCATHETER VALVE WITH PARAVALVULAR	LEAK SEALING RING	
x for which an application for a United States Letters Patent was filed on May 12, 2015  Application Number 14/709,560		
for which an application for a United States Letters Pater and	nt was executed by me on	
Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of Delaware herein referred to as "assignee" whose	se malling address is	
177 East County Road B; St. Paul, Minnesota 55117		
is desirous of acquiring the entire right, title and interest in the sa	ame;	
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.		
when known.		
23 Nov 15	(Signature)	
(Date)	(Signature)	
State of Manager (Signature)  State of Manager (Signature)  On this 33 day of Movemer (Signature)  On the 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)		
t Total of 8 forms are submitted		
x *Total of 8 forms are submitted.		

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

Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION STJUDE 3.0F-339 (E) Whereas, I, Andrea N. Para 7732 Gannon Ave.; Apt. 2F; St. Louis, Missouri 63130 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSCATHETER VALVE WITH PARAVALVULAR LEAK SEALING RING x for which an application for a United States Letters Patent was filed on May 12, 2015 Application Number 14/709,560 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 ), the receipt whereof 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 sald 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. And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known. Brylea Para State of County of day of December, 2015 before me personally came the above-named Andrea N. On this  $\frac{1}{2}$ Para, 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. DANELLA LANG Notary Public - Notary Seal State of Missouri Q. (Notary Pub Commissioned for St. Louis County Ma Commission Expires: November 02. Commission Number: 149592

forms are submitted

'Total of

X

**PATENT** REEL: 045805 FRAME: 0962

fermer PTO/SQ:15 (8-00) Modified LDLX8N

tormar PTCVSB15 (6-00) Modified LDLKAM		
	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-339 (E)	
Whereas, I, Peter N. Braido	of	
21460 Heidelberg St. NE; Wyoming, Minnesota 55092		
hereafter referred to as assignor, have with others invented cert	ain new and useful improvements in	
TRANSCATHETER VALVE WITH PARAVALVULAR		
x for which an application for a United States Letters Patent was filed on Application Number 14/709,560		
for which an application for a United States Letters Pater	nt was executed by me on ,	
<del></del>		
Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of Delaware herein referred to as "assignee" who	se mailing address is	
177 East County Road B; St. Paul, Minnesota 55117		
is desirous of acquiring the entire right, title and interest in the sa	ame;	
NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Stat Invention and the aforesaid utility patent application and all substitute or reissue applications and patents applied for or grother countries, for said invention, including without limitation a priority or benefit of the aforesaid utility application pursuant to priority or benefit and the Commissioner of Patents and Trade patents on said improvements or resulting therefrom to said therein; and the undersigned for me and my legal representative without further remuneration, to execute and deliver all original, for Letters Patent on said improvements and all assignments to said assignee or its representatives all facts known to the crequested, to testify in any interferences or other legal proceed become involved, to sign all lawful papers, make all rightful or assignee, its successors, assigns and nominees to obtain pater expenses incident to said applications to be borne and paid by said and I do hereby authorize my attorneys to insert on this deed the	I as assignor hereby sell, assign and set over to said es of America and all other countries in and to said original, divisional, continuation, continuation-in-part, anted therefor in the United States of America and all applications and patents for said invention claiming any law or treaty, and including the right to claim such marks is hereby authorized and requested to issue all assignee herein, as assignee of the entire interest ves, heirs and assigns do hereby agree and covenant divisional, continuation, reissue and other applications hereof to said assignee or its assigns, to communicate undersigned respecting said improvements, whenever dings in which any of said applications or patents may aths, and to do generally everything necessary to all assignee.	
when known.	7 n. 1	
25 Nov 2015 (Date)	Pet M. Bre	
(Date)	(Signature)	
State of Minnesota ) ss: County of Sherburne )		
On this 25 <sup>th</sup> day of November, 2015 before Braido, to me personally known as the Individual who execute that the same was executed by him/her of his/her own free will be same will be s	e me personally came the above-named <u>Peter N.</u> ad the foregoing instrument, who acknowledged to me for the purposes therein set forth.	
minely llexufacto		

LJD-528\

\*Total of

8

forms are submitted.



Igenes PTO/SB/15 (8-00) Modeled LOLK	
ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
ASSIGNMENT OF OTHER FAIR LIGATION	STJUDE 3.0F-339 (E)
The Control of Control	
Whereas, I, Sounthara (ott) Khouengboua	of
2248 Manuela Drive; Chaska, Minnesota 55318	
hereafter referred to as assignor, have with others invented certain	ain new and useful improvements in
TRANSCATHETER VALVE WITH PARAVALVULAR	
x for which an application for a United States Letters Pate	ent was filed on May 12, 2015
Application Number 14/709,560	
for which an application for a United States Letters Pater	nt was executed by me on
and	
Whereas, St. Jude Medical, Cardiology Division, Inc.	
a corporation of <b>Delaware</b> herein referred to as "assignee" who	se mailing address is
177 East County Road B; St. Paul, Minnesota 55117	and the state of t
is desirous of acquiring the entire right, title and interest in the sa	ame;
is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Stat Invention and the aforesaid utility patent application and all substitute or reissue applications and patents applied for or go other countries, for said invention, including without limitation a priority or benefit of the aforesaid utility application pursuant to priority or benefit and the Commissioner of Patents and Trade patents on said improvements or resulting therefrom to said therein; and the undersigned for me and my legal representative without further remuneration, to execute and deliver all original, for Letters Patent on said improvements and all assignments to said assignee or its representatives all facts known to the requested, to testify in any interferences or other legal proceed become involved, to sign all lawful papers, make all rightful of assignee, its successors, assigns and nominees to obtain pater expenses incident to said applications to be borne and paid by states.	les of America and all other countries in and to said original, divisional, continuation, continuation-in-part, anted therefor in the United States of America and all all applications and patents for said invention claiming any law or treaty, and including the right to claim such marks is hereby authorized and requested to issue all assignee herein, as assignee of the entire interest ves, heirs and assigns do hereby agree and covenant divisional, continuation, relssue and other applications nereof to said assignee or its assigns, to communicate undersigned respecting said improvements, whenever dings in which any of said applications or patents may aths, and to do generally everything necessary to aid nt protection for said improvements in all countries, the said assignee.
And I do hereby authorize my attorneys to insert on this deed the when known.	ne filling data and application number of said application
MOV-20 2015 (Date) State of MN ) SS: County of Humph	
(Date)	(Signature)
State of	
County of <u>Hemph</u> )	
On this day of November to be fore (ott) Khouengboua, to me personally known as the indiacknowledged to me that the same was executed by him/her of	o me personally came the above-named <u>Sounthara</u> vidual who executed the foregoing instrument, who his/her own free will for the purposes therein set forth.
1 Commence of the commence of	
(Notary Public)	

8

\*Total of

LD-528\

forms are submitted.

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

	former PTO/SBILS (B-S0) Modified LOUKSM  Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-339 (E)
	5100E 3.01-039 (L)
Whereas, I, Thomas M. Benson	0
3423 Tyler Street NE; Minneapolis, Minnesota 55418 hereafter referred to as assignor, have with others invented certains.	ain new and useful improvements in
TRANSCATHETER VALVE WITH PARAVALVULAR	LEAK SEALING RING
x for which an application for a United States Letters Patr	
Application Number 14/709,560	
for which an application for a United States Letters Pater	nt was executed by me on,
and	
Whereas, St. Jude Medical, Cardiology Division, Inc.	
a corporation of <u>Delaware</u> herein referred to as "assignee" who	se mailing address is
177 East County Road B; St. Paul, Minnesota 55117 is desirous of acquiring the entire right, title and interest in the s	ame;
NOW, THEREFORE, in consideration of the sum of one	dollars (\$ 1.00 ), the receipt whereof
NOW, THEREFORE, in consideration to the solid sacknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Stal invention and the aforesaid utility patent application and all substitute or reissue applications and patents applied for or grother countries, for said invention, including without limitation priority or benefit of the aforesaid utility application pursuant to priority or benefit and the Commissioner of Patents and Trade patents on said improvements or resulting therefrom to saic therein; and the undersigned for me and my legal representati without further remuneration, to execute and deliver all original, for Letters Patent on said improvements and all assignments to said assignee or its representatives all facts known to the requested, to testify in any interferences or other legal proceed become involved, to sign all lawful papers, make all rightful of assignee, its successors, assigns and nominees to obtain pate expenses incident to said applications to be borne and paid by	original, divisional, continuation, continuation-in-part, ranted therefor in the United States of America and all applications and patents for said invention claiming any law or treaty, and including the right to claim such marks is hereby authorized and requested to issue all dissignee herein, as assignee of the entire interest ves, heirs and assigns do hereby agree and covenant, divisional, continuation, reissue and other applications hereof to said assignee or its assigns, to communicate undersigned respecting said improvements, whenever dings in which any of said applications or patents may paths, and to do generally everything necessary to aid nt protection for said improvements in all countries, the said assignee.
when known.	
24-NOV-15 (Date)	Story M. Benn
(Date)	(Signature)
State of SS:	
County of	
On this day of, befo M. Benson, to me personally known as the individual who ex me that the same was executed by him/her of his/her own free	re me personally came the above-named <u>Thomas</u> secuted the foregoing instrument, who acknowledged to will for the purposes therein set forth.
(Notary Public)	
x *Total of 8 forms are submitted.	

PATENT REEL: 045805 FRAME: 0965

former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION STJUDE 3.0F-339 (E) Whereas, I, Saravana B. Kumar 13824 Wood Lane; Minnetonka, Minnesota 55305 hereafter referred to as assignor, have with others invented certain new and useful improvements in TRANSCATHETER VALVE WITH PARAVALVULAR LEAK SEALING RING x for which an application for a United States Letters Patent was filed on May 12, 2015 Application Number 14/709,560 for which an application for a United States Letters Patent was executed by me on 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; ), the receipt whereof NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 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, helrs 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. And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application 11 Dr.c. 2015 (Date) Minnesota ) ss: (Signature)-State of County of On this 11th day of Double, 2015 before me personally came the above-named Saravana B. Kumar, 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. EMILY J NORDSTROM Notary Public (Motary Public)

forms are submitted.

\*Total of

X 10.528

PATENT REEL: 045805 FRAME: 0966

Minnaenta Ny Gomm Expires Jan 31, 2018

former PTO/SB/15 (8-00) Missilior/1/01/KAVI

	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-339 (E)	
Whereas, I, Bruce Moseman	of .	
809 Daniel Drive; Belle Plaine, Minnesota 56011		
hereafter referred to as assignor, have with others invented certain	ain new and useful improvements in	
TRANSCATHETER VALVE WITH PARAVALVULAR	LEAK SEALING RING	
X for which an application for a United States Letters Pate Application Number 14/709,560	ent was filed on May 12, 2015	
for which an application for a United States Letters Pater and	nt was executed by me on,	
Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of <u>Delaware</u> herein referred to as "assignee" whos 177 East County Road B; St. Paul, Minnesota 55117	se mailing address Is	
is desirous of acquiring the entire right, title and interest in the sa	ame;	
NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereo 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 sale 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 at 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 sald 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 covernan 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, wheneve 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.		
And I do hereby authorize my attorneys to insert on this deed the when known.  (Date)		
(Date)	(Signature)	
State of Ninh 50 to SS:  County of Henne pin ) SS:  On this 23 day of Niversky, 2015 before me personally came the above-named Bruce		
Moseman, to me personally known as the individual who exe me that the same was executed by him/her of his/her own free to	Cuted the integralid instrument, who acknowledged to	
(Notary Public)		
x *Total of 8 forms are submitted.		



	former PTO/SB/15 (8:00) Modified LDLX&M
ACCIONMENT OF UTILITY APPLICATION	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-339 (E)
Whereas, I, Gaurav Satam	of
1309 Gibbs Ave.; Falcon Heights, Minnesota 55108	MAGNAMIN PROPERTY OF THE PROPE
hereafter referred to as assignor, have with others invented certa	ain new and useful improvements in
TRANSCATHETER VALVE WITH PARAVALVULAR I	LEAK SEALING RING
x for which an application for a United States Letters Pate	
Application Number 14/709,560	
for which an application for a United States Letters Pater	nt was executed by me on
and	nem plates have the incompression to the contract of the contr
and the state of t	
Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of Delaware herein referred to as "assignee" whos	se mailing address is
177 East County Road B; St. Paul, Minnesota 55117	o maining deal out is
is desirous of acquiring the entire right, title and interest in the sa	ıme;
	dollars (\$ 1.00 ), the receipt whereof
is asknowledged, and other good and valuable consideration.	as assignor hereby sell, assign and set over to said
and interest for the United State	es of America and all other countries in and to said
assignee my entire right, title and interest for the discount invention and the aforesald utility patent application and all substitute or reissue applications and patents applied for or gra	original, divisional, continuation, continuation-in-part, anted therefor in the United States of America and all
ether countries for said invention including without ilmitation a	ili applications and datents for said invention claiming
priority or bonefit of the aforegold utility application pursuant to	any law or treaty, and including the right to claim such
priority or benefit and the Commissioner of Patents and Trader 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 representative	res, heirs and assigns do hereby agree and covenant
without further remuneration, to execute and deliver all original, for Letters Patent on said improvements and all assignments the	divisional continuation, reissue and other applications
to gold acclange or its representatives all facts known to the L	indersigned respecting said improvements, whenever
reminered to testify in any interferences or other legal proceed	lings in which any of said applications of patents may
become involved, to sign all lawful papers, make all rightful or assignee, its successors, assigns and nominees to obtain pater	itns, and to do generally everything necessary to add
expenses incident to said applications to be borne and paid by s	aid assignee.
And I do hereby authorize my attorneys to insert on this deed th	e filling date and application number of said application
when known.	
1012/2015	and .
12/2/2015	(Signature)
(Date)	(aignature)
State of SS:	
County of)	
On this befor	e me personally came the above-named Gauray
Satam to me personally known as the individual Who execute	ed the foredoing institutions, who acknowledged to me
that the same was executed by him/her of his/her own free will f	or the purposes therein set forth.
(Notary Public)	
*Tatal of P forms are submitted	

PATENT REEL: 045805 FRAME: 0968

**RECORDED: 05/15/2018**