503638988 01/07/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3685621

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRADLEY CHARLES KNIPPEL	09/05/2014
HUISUN WANG	08/21/2014
RALPH J. THOMAS	09/18/2014
JACOB JOHN DALY	09/26/2014

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:	14329406

CORRESPONDENCE DATA

Fax Number: (908)654-0415

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) 518-6356

Email: assignment@lernerdavid.com

Correspondent Name: LDLK&M

Address Line 1: 600 SOUTH AVENUE WEST

Address Line 4: WESTFIELD, NEW JERSEY 07090

ATTORNEY DOCKET NUMBER:	STJUDE 3.0-120 DIV (E)
NAME OF SUBMITTER:	MELINDA C. CORMIER
SIGNATURE:	/Melinda C. Cormier/
DATE SIGNED:	01/07/2016

Total Attachments: 4

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PATENT 503638988 REEL: 037431 FRAME: 0243

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former PTO/SB/15 (8-00) Modified LDLK&M

	Docket Number (Optional)			
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0-120 DIV (E)			
Whereas, I, Bradley Charles Knippel of				
570 Chippewa Trail; Lino Lakes, Minnesota 55014				
hereafter referred to as assignor, have with others invented certa STAGED DEVELOPMENT DEVICES AND METHOD VALVE DELIVERY	ain new and useful improvements in HODS FOR TRANSCATHETER HEART			
x for which an application for a United States Letters	Patent was filed onJuly 11, 2014			
Application Number 14/329,406				
for which an application for a United States Letters F and	Patent was executed by me on			
Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of Delaware herein referred to as "assignee" whose 177 East County Road B; St. Paul, Minnesota 55117	e mailing address is			
is desirous of acquiring the entire right, title and interest in the sa	me; dollars (\$ <u>1.00</u>), the receipt whereof			
is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Statinvention 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 assand the undersigned for me and my legal representatives, heir further remuneration, to execute and deliver all original, divisibletters Patent on said improvements and all assignments there said assignee or its representatives all facts known to the understead, 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 assigner, hereby assign to said assignee all of my right, tit No. 61/376,425, filed September 17, 2010, and in the invention	tes 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 signee herein, as assignee of the entire interest therein; as and assigns do hereby agree and covenant without ional, continuation, reissue and other applications for eof to said assignee or its assigns, to communicate to undersigned respecting said improvements, whenever dings in which any of said applications or patents may aths, and to do generally everything necessary to aid not protection for said improvements in all countries, the aid assignee.			
the right to claim priority or benefit of said Application No. 61/3 the world. And I do hereby authorize my attorneys to insert on this deed the				
when known.				
05/EP2014 (Date)	(Şignatüre)			
State of County of Charles Knippel, to me personally known as the individual who to me that the harnerwas executed by him/her of his/hex own free (Notary Public)	executed the foregoing instrument, who acknowledged			
	ANDREA J PAHAN NOTARY PUBLIC			
	MINNESOTA			

former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION STJUDE 3.0-120 DIV (E) Huisun Wang Whereas, I. 6275 Fernbrook Lane North; Maple Grove, Minnesota 55311 hereafter referred to as assignor, have with others invented certain new and useful improvements in STAGED DEVELOPMENT DEVICES AND METHODS FOR TRANSCATHETER HEART VALVE DELIVERY x for which an application for a United States Letters Patent was filed on July 14, 2014 Application Number 14/329,406 for which an application for a United States Letters Patent was executed by me on St. Jude Medical, Cardiology Division, Inc. Whereas 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 <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said NOW, THEREFORE, in consideration of the sum of dollars (\$), 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 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.. 61/376,425, filed September 17, 2010, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/376,425 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. My 21, 2014
(Date) (Signature) State of County of before me personally came the above-named Huisun

Wang, 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)

former PTO/SB/15 (8-00) Modified LDLK&N

	Docket Number (Optional)			
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0-120 DIV (E)			
Whereas, I, Ralph Joseph Thomas of				
7616 113 1/2 Ave N; Champlin, Minnesota 55316				
hereafter referred to as assignor, have with others invented certain no STAGED DEVELOPMENT DEVICES AND METHOD VALVE DELIVERY	ew and useful improvements in S FOR TRANSCATHETER HEART			
x for which an application for a United States Letters Pate	ent was filed on <u>July 14, 2014</u>			
Application Number 14/329,406				
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" whose ma	ailing address is			
177 East County Road B; St. Paul, Minnesota 55117 is desirous of acquiring the entire right, title and interest in the same;				
is acknowledged, and other good and valuable consideration, I as assignee my entire right, title and interest for the United States of invention and the aforesaid utility patent application and all original substitute or reissue applications and patents applied for or granter other countries, for said invention, including without limitation all application benefit of the aforesaid utility application pursuant to any priority or benefit and the Commissioner of Patents and Trademark patents on said improvements or resulting therefrom to said assigner and the undersigned for me and my legal representatives, heirs are further remuneration, to execute and deliver all original, divisional Letters Patent on said improvements and all assignments thereof it said assignee or its representatives all facts known to the underequested, to testify in any interferences or other legal proceedings become involved, to sign all lawful papers, make all rightful oaths assignee, its successors, assigns and nominees to obtain patent prexpenses incident to said applications to be borne and paid by said at No 61/376,425, filed September 17, 2010, and in the invention disc the right to claim priority or benefit of said Application No. 61/376,425, the world.	of America and all other countries in and to said ginal, divisional, continuation, continuation-in-part, and therefor in the United States of America and all pplications and patents for said invention claiming law or treaty, and including the right to claim such as is hereby authorized and requested to issue all the herein, as assignee of the entire interest therein; and assigns do hereby agree and covenant without all, continuation, reissue and other applications for to said assignee or its assigns, to communicate to exist the existing said improvements, whenever is in which any of said applications or patents may and to do generally everything necessary to aid rotection for said improvements in all countries, the assignee. Indinterest in United States Provisional Application closed thereto in all countries of the world including 425 pursuant to any law or treaty in the countries of			
And I do hereby authorize my attorneys to insert on this deed the fil when known.	ling date and application number of said application			
19 50p 2014 A	4947 -			
(Date)				
State of				
County of +trok ()				
On this day of day of the individual who executed the foregoing instrument, who acknowledged to me				
that the same was executed by him their of his/her own free will for the purposes therein set forth.				
(Notary Public)	ANDREA J PAHAN			
	MOTARY PUBLIC MINNESOTA			
	My Commission Fyrings Iso 39 9015			

former PTO/SB/15 (8-00) Modified LDLK&M

	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0-120 DIV (E)
Whereas, I, Jacob John Daly	of
12472 Fergus Ct. NE; Blaine, Minnesota 55449	
hereafter referred to as assignor, have with others invented certain no STAGED DEVELOPMENT DEVICES AND METHOD VALVE DELIVERY	ew and useful improvements in S FOR TRANSCATHETER HEART
x for which an application for a United States Letters Pate	ent was filed on July 14, 2014
Application Number 14/329,406	
for which an application for a United States Letters Pater and	it was executed by me on,
Whereas, St. Jude Medical, Cardiology Division, Inc. a corporation of Delaware herein referred to as "assignee" whose ma 177 East County Road B; St. Paul, Minnesota 55117	ailing address is
is desirous of acquiring the entire right, title and interest in the same;	
is acknowledged, and other good and valuable consideration, I as assignee my entire right, title and interest for the United States of invention and the aforesaid utility patent application and all orig substitute or reissue applications and patents applied for or granter other countries, for said invention, including without limitation all appriority or benefit of the aforesaid utility application pursuant to any priority or benefit and the Commissioner of Patents and Trademark patents on said improvements or resulting therefrom to said assigne and the undersigned for me and my legal representatives, heirs and Letters Patent on said improvements and all assignments thereof to said assignee or its representatives all facts known to the under requested, to testify in any interferences or other legal proceedings become involved, to sign all lawful papers, make all rightful oaths, assignee, its successors, assigns and nominees to obtain patent proceedings incident to said applications to be borne and paid by said as	of America and all other countries in and to said pinal, divisional, continuation, continuation-in-part, dependent of the United States of America and all oplications and patents for said invention claiming law or treaty, and including the right to claim such its is hereby authorized and requested to issue all the eherein, as assignee of the entire interest therein; and assigns do hereby agree and covenant without and, continuation, reissue and other applications for the said assignee or its assigns, to communicate to said assignee or its assigns, to communicate to signed respecting said improvements, whenever in which any of said applications or patents may and to do generally everything necessary to aid objection for said improvements in all countries, the ssignee.
I, as assignor, hereby assign to said assignee all of my right, title ar No <u>61/376,425</u> , filed <u>September 17, 2010</u> , and in the invention disc the right to claim priority or benefit of said Application No. <u>61/376,4</u> the world.	losed thereto in all countries of the world including
And I do hereby authorize my attorneys to insert on this deed the fili when known.	ng date and application number of said application
26Sept14 (Date)	(Signature)
State of <u>MinneSoto</u>) ss:	~ (Signature)
County of House Out	
On this \(\) day of \(\) A way of \(\) A way of \(\) Daly, to me personally known as the individual who executed the for the same was executed by the her off bis her own free will for the purp	personally came the above-named <u>Jacob John</u> regoing instrument, who acknowledged to me that poses therein set forth.
(Notary Public)	ANDREA J PAHAN NOTARY PUBLIC
	MINNESCIA My Commission Expires Jan. 31, 2015

PATENT REEL: 037431 FRAME: 0248

RECORDED: 01/07/2016