505291535 01/23/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5338312

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PETER N. BRAIDO	05/05/2015
KENT J. SMITH	04/22/2015
ANDREA L. MCCARTHY	04/21/2015
MINA S. FAHIM	05/19/2015

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:	16254000

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

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-329 DIV	
NAME OF SUBMITTER:	KATHLEEN REYNOLDS	
SIGNATURE:	/Kathleen Reynolds/	
DATE SIGNED:	01/23/2019	

Total Attachments: 4

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PATENT REEL: 048108 FRAME: 0483

former PTO/Sidn's (8-00) Missibed LDLK&M

	Docket Number (Optional)			
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-329 (E)			
Whereas, I, Peter N. Braido of				
21460 Heidelberg St. NE: Wyoming, Minnesota 55092				
hereafter referred to as assignor, have with others invented certain of	ew and useful improvements in			
LEAFLET ABRASION MITIGATION IN PROSTHETION	C HEART VALVES			
x for which an application for a United States Letters Pat	ent was filed on April 13, 2015			
Application Number 14/684,589				
for which an application for a United States Letters Pate 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" whose mailing address is 177 East County Road 8: St. Paul, Minnesota 55117				
is desirous of acquiring the entire right, title and interest in the same,				
NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to all applications and patents for said invention claiming 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 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 bome and paid by said assignee.				
And I do hereby authorize my attorneys to insert on this deed the fi when known.				
5 M., 2015	Ret R			
(Date)	(Signature)			
State of Manuelle) SS:	,			
County of (Marriage)				
On this 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)				
x *Total of 4 forms are submitted.	LD-530/			



former PTC/SB/15 (8-05) Modified LDLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION STJUDE 3.0F-329 (E) Kent J. Smith Whereas, I. 680 White Birch Drive; Shoreview, Minnesota 55126 hereafter referred to as assignor, have with others invented certain new and useful improvements in LEAFLET ABRASION MITIGATION IN PROSTHETIC HEART VALVES x for which an application for a United States Letters Patent was filed on April 13, 2015 Application Number 14/684,589 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; dollars (\$ NOW, THEREFORE, in consideration of the sum of one 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. And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known. State of County of On this 22° , 2015 before me personally came the above-named Kent J. Smith, day of to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by himpiner of hispings own free will for the purposes therein set forth.

(Notary Public)

forms are submitted.

x

*Total of

MCOMMERCHE ANNESON & LD-530/

former PTO/SB/15 (\$-90) Modified LDLK&M

	Docket Number (Optional)			
ASSIGNMENT OF UTILITY APPLICATION	STJUDE 3.0F-329 (E)			
Whereas, I, Andrea L. McCarthy	of			
425 Springhill Road, Vadnais Heights, Minnesota 55127				
hereafter referred to as assignor, have with others invented certain ne	ew and useful improvements in			
LEAFLET ABRASION MITIGATION IN PROSTHETIC	HEART VALVES			
x for which an application for a United States Letters Pate	ent was filed on April 13, 2015			
Application Number 14/684,589				
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" whose ma	ailing address is			
177 East County Road B; St. Paul, Minnesota 55117	······································			
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.				
State of (Date) State of (Date) State of (Date) On this day of	(Signature) personally came the above-named <u>Andrea L.</u> the foregoing instrument, who acknowledged to me			
x *Total of 4 forms are submitted.	LD-530/			



REEL: 048108 FRAME: 0486

Spensor PTC/SSP115 (8-00)-Modified CDLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION STJUDE 3.0F-329 (E) Mina S. Fahim Whereas 1 5899 Hamline Ave. N.; Shoreview, Minnesota 55126 hereafter referred to as assignor, have with others invented certain new and useful improvements in LEAFLET ABRASION MITIGATION IN PROSTHETIC HEART VALVES x for which an application for a United States Letters Patent was filed on April 13, 2015 14/684,589 Application Number for which an application for a United States Letters Patent was executed by me on 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 <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 assignee my entire right, title and interest for the United States. 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 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 Tradsmarks 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 assignse 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 when known. State of County of On this 12 day of Mark 2015 before me personally came the above-named Mina S. Fahim, 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)

> PATENT REEL: 048108 FRAME: 0487

MARY ANN KAUSHOLD
SCIENT STREET OF MARIEMAN

January 31, 2018

RECORDED: 01/23/2019

*Total of

4 forms are submitted.