

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3586226

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PETER NICHOLAS BRAIDO	06/26/2013
DANIEL COYLE	06/27/2013
MARY JOHNSON	06/26/2013
JULIA ANN SCHRAUT	06/26/2013
RYAN BUESSELER	06/25/2013
JACOB JOHN DALY	06/26/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ST. JUDE MEDICAL, CARDIOLOGY DIVISION, INC.
<b>Street Address:</b>	177 EAST COUNTY ROAD B
<b>City:</b>	ST. PAUL
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55117
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14882669
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(908)654-0415
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	(908) 518-6352
<b>Email:</b>	assignment@lernerdavid.com
<b>Correspondent Name:</b>	LDLK&M
<b>Address Line 1:</b>	600 SOUTH AVENUE WEST
<b>Address Line 4:</b>	WESTFIELD, NEW JERSEY 07090
<b>ATTORNEY DOCKET NUMBER:</b>	STJUDE 3.0-230 CON
<b>NAME OF SUBMITTER:</b>	MELINDA C. CORMIER
<b>SIGNATURE:</b>	/Melinda C. Cormier/
<b>DATE SIGNED:</b>	10/26/2015
<b>Total Attachments: 6</b>	

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**PATENT**

**REEL: 036881 FRAME: 0041**

**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)

STJUDE 3.0-230 (CD-621)

Whereas, I, Peter Nicholas Braido of  
21460 Heidelberg St. NE, Wyoming, Minnesota 55092

hereafter referred to as assignor, have with others invented certain new and useful improvements in

VALVE ASSEMBLY FOR CRIMP PROFILE

☒ for which an application for a United States Letters Patent was filed on March 7, 2013

Application Number 13/788,696

☐ 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 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. 61/666,174, filed June 29, 2012, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/666,174 pursuant to any law or treaty in the countries of the world.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

26 June 2013

(Date)

Peter Nicholas Braido

(Signature)

State of Minnesota, SS:

County of Anoka

On this 26th day of June, 2013 before me personally came the above-named Peter Nicholas Braido, 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.

Andrea J. Pahan  
 (Notary Public)

☒ \*Total of 6 forms are submitted.



## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

STJUDE 3.0-230 (CD-621)

Whereas, I, Daniel Coyle of4854 Dominica Way, Apple Valley, Minnesota 55124

hereafter referred to as assignor, have with others invented certain new and useful improvements in

VALVE ASSEMBLY FOR CRIMP PROFILE☒ for which an application for a United States Letters Patent was filed on March 7, 2013Application Number 13/788,696☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_, andWhereas, St. Jude Medical, Cardiology Division, Inc.a corporation of Delaware herein referred to as "assignee" whose mailing address is177 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 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. 61/666,174, filed June 29, 2012, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/666,174 pursuant to any law or treaty in the countries of the world.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

27 JUN 13

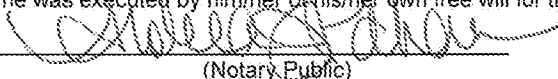
(Date)



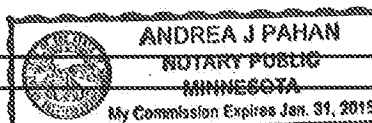
(Signature)

State of Minnesota ) SS:County of Anoka )

On this 27th day of June 2013 before me personally came the above-named Daniel Coyle, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.



(Notary Public)

☒ \*Total of 6 forms are submitted.

My Commission Expires Jan. 31, 2015

LD-530/

**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)

STJUDE 3.0-230 (CD-621)

Whereas, I, Mary Johnson of1631 Payne Avenue; St. Paul, Minnesota 55130

hereafter referred to as assignor, have with others invented certain new and useful improvements in

VALVE ASSEMBLY FOR CRIMP PROFILE☒ for which an application for a United States Letters Patent was filed on March 7, 2013Application Number 13/788,696☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_, andWhereas, St. Jude Medical, Cardiology Division, Inc.a corporation of Delaware herein referred to as "assignee" whose mailing address is177 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 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. 61/666,174, filed June 29, 2012, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/666,174 pursuant to any law or treaty in the countries of the world.

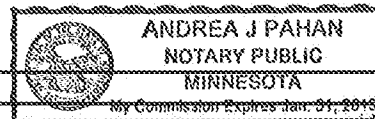
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

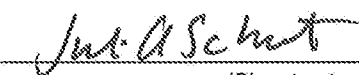
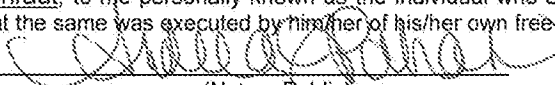
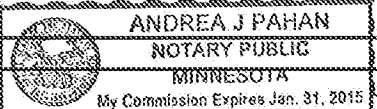
26 JUN 13

(Date)

Mary Johnson  
(Signature)State of Minnesota ) SS:County of Anoka )

On this 26th day of June, 2013 before me personally came the above-named Mary Johnson, 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.

Andrea J. Pahan  
(Notary Public)☒ \*Total of 6 forms are submitted.**PATENT****REEL: 036881 FRAME: 0044**

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>STJUDE 3.0-230 (CD-621)</b>
<p>Whereas, I, <u>Julia Ann Schraut</u> of <u>844 County Road I West, Shoreview, Minnesota 55126</u></p> <p>hereafter referred to as assignor, have with others invented certain new and useful improvements in <u>VALVE ASSEMBLY FOR CRIMP PROFILE</u></p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>March 7, 2013</u></p> <p>Application Number <u>13/788,696</u></p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____ and _____</p> <p>Whereas, <u>St. Jude Medical, Cardiology Division, Inc.</u> a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing address is <u>177 East County Road B, St. Paul, Minnesota 55117</u> is desirous of acquiring the entire right, title and interest in the same;</p> <p>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 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.</p> <p>I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. <u>61/666,174</u>, filed <u>June 29, 2012</u>, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. <u>61/666,174</u> pursuant to any law or treaty in the countries of the world.</p> <p>And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"> <u>26JUN13</u>  (Date) </div> <div style="text-align: center;">   (Signature) </div> </div> <p>State of <u>Minnesota</u> ) ss:  County of <u>Anoka</u> )</p> <p>On this <u>20th</u> day of <u>June</u> <u>2013</u> before me personally came the above-named <u>Julia Ann Schraut</u>, 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.</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: center;">   (Notary Public) </div> <div style="text-align: center;">  </div> </div>	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <input checked="" type="checkbox"/> *Total of <u>6</u> forms are submitted. </div> <div style="text-align: right;"> Q-530/ </div> </div>	

**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)

STJUDE 3.0-230 (CD-621)

Whereas, I, Ryan Buesseler of  
196 Swedmark Drive SW; Bemidji, Minnesota 56601

hereafter referred to as assignor, have with others invented certain new and useful improvements in

VALVE ASSEMBLY FOR CRIMP PROFILE

☒ for which an application for a United States Letters Patent was filed on March 7, 2013

Application Number 13/788,696

☐ 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 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. 61/666,174, filed June 29, 2012, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/666,174 pursuant to any law or treaty in the countries of the world.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

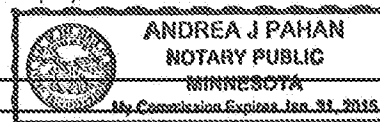
25-June-2013  
 (Date)

[Signature]  
 (Signature)

State of Minnesota ) ss:  
 County of Anoka )

On this 25th day of June, 2013 before me personally came the above-named Ryan Buesseler, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

[Signature]  
 (Notary Public)



☒ \*Total of 6 forms are submitted.

LD-530/

**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)

STJUDE 3.0-230 (CD-621)

Whereas, I, Jacob John Daly of12472 Fergus Ct. NE; Blaine, Minnesota 55449

hereafter referred to as assignor, have with others invented certain new and useful improvements in

VALVE ASSEMBLY FOR CRIMP PROFILE☒ for which an application for a United States Letters Patent was filed on March 7, 2013Application Number 13/788,696☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_, andWhereas, St. Jude Medical, Cardiology Division, Inc.a corporation of Delaware herein referred to as "assignee" whose mailing address is177 East County Road B; St. Paul, Minnesota 55117

is desirous of acquiring the entire right, title and interest in the same;

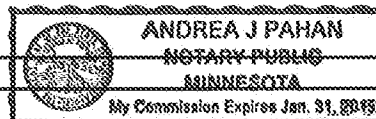
NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries 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. 61/666,174, filed June 29, 2012, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/666,174 pursuant to any law or treaty in the countries of the world.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

26 JUN 13  
(Date)[Signature]  
(Signature)State of Minnesota ) SS:  
County of Anoka )

On this 26th day of June, 2013 before me personally came the above-named Jacob John Daly, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

[Signature]  
(Notary Public)☒ \*Total of 6 forms are submitted.