PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2859079

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RESUBMISSION OF CORRECTIVE ASSIGNMENT TO CORRECT ASSIGNEE'S ADDRESS, WHICH WAS PREVIOUSLY RETURNED UNDER NOTICE OF NON-RECORDATION DOC. NO. 502785664

CONVEYING PARTY DATA

Name	Execution Date
BRADLEY CHARLES KNIPPEL	04/10/2014
HUISUN WANG	04/09/2014
RALPH JOSEPH THOMAS	04/08/2014
JACOB JOHN DALY	04/08/2014

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:	13234782

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 via

US Mail.

Phone: (908) 518-6356

Email: Assignment@ldlkm.com

Correspondent Name: LDLK&M

Address Line 1: 600 SOUTH AVENUE WEST

Address Line 4: WESTFIELD, NEW JERSEY 07090

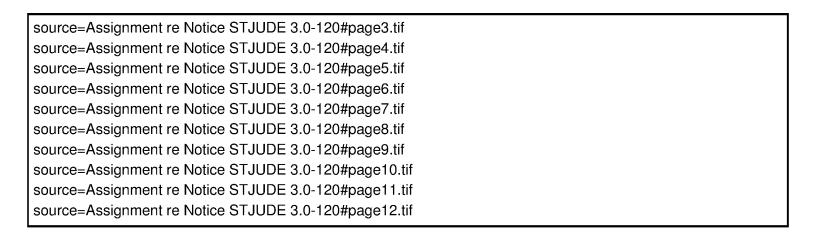
ATTORNEY DOCKET NUMBER:	STJUDE 3.0-120
NAME OF SUBMITTER:	JOSEPH H. KARLIN
SIGNATURE:	/Joseph H. Karlin/
DATE SIGNED:	05/16/2014

Total Attachments: 12

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PATENT
REEL: 032911 FRAME: 0199

502812485



PATENT REEL: 032911 FRAME: 0200

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2832259

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE'S ADDRESS previously recorded on Reel 032666 Frame 0496. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
BRADLEY CHARLES KNIPPEL	04/10/2014
HUISUN WANG	04/09/2014
RALPH JOSEPH THOMAS	04/08/2014
JACOB JOHN DALY	04/08/2014

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:	13234782

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 via

US Mail.

Phone: (908) 518-6356

Email: Assignment@ldlkm.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
NAME OF SUBMITTER:	JOSEPH H. KARLIN
SIGNATURE:	/Joseph H. Karlin/
DATE SIGNED:	04/28/2014

Total Attachments: 8

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PATENT REEL: 032911 FRAME: 0201



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Electronic Patent Assignment System

Confirmation Receipt

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRADLEY CHARLES KNIPPEL	04/10/2014
HUISUN WANG	04/09/2014
RALPH JOSEPH THOMAS	04/08/2014
JACOB JOHN DALY	04/08/2014

RECEIVING PARTY DATA

Name:	ST. JUDE MEDICAL, CARDIOLOGY DIVISION, INC.
Street Address:	177 EAST COUNTY ROAD
City:	ST. PAUL
State/Country:	MINNESOTA
Postal Code:	55117

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13234782

http://epas.uspto.gov/com/receipt.jsp?iname=GWNB6ALORVFG-2505

4/14/2014

PATENT 47,72014 REEL: 032911 FRAME: 0202

CORRESPONDENCE DATA	
Fax Number: (908)654-0415 Phone: (908) 518-6356 Email: Assignment@ldlkm.com Correspondence will be sent via US Mail when the email attempt is unsuccessful. 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
NAME OF SUBMITTER:	JOSEPH H. KARLIN
Signature:	/Joseph H. Karlin/
Date:	04/14/2014
Total Attachments: 8 source=Assignment STJUDE 3.0-120 (.876)#page1.tif source=Assignment STJUDE 3.0-120 (.876)#page2.tif source=Assignment STJUDE 3.0-120 (.876)#page3.tif source=Assignment STJUDE 3.0-120 (.876)#page4.tif source=Assignment STJUDE 3.0-120 (.876)#page5.tif source=Assignment STJUDE 3.0-120 (.876)#page6.tif source=Assignment STJUDE 3.0-120 (.876)#page7.tif source=Assignment STJUDE 3.0-120 (.876)#page8.tif	
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PAT2812895

04/14/2014

EPAS ID: Receipt Date:

REEL: 032911 FRAME: 0203

	PTG/SB/15.10-00) Meditled		
ASSIGNMENT OF PROVISIONAL APPLICATION	Docket Number (Optional) STJUDE 3,8-120		
Whereas, I, Bradley Charles Knippel 570 Chippewa Trali; Lino Lakes, Minnesota 55014	<u> </u>		
hereafter referred to as Assignor, have with others invented certain new and u STAGED DEVELOPMENT DEVICES AND METHODS TRANSCATHETER DELIVERY			
x for which a provisional application for a United States Patent was filed o Application Number 61/384,032			
for which a provisional application for a United States Patent was execute	od on		
Delaware**		Me	
and Whereas, St. Jude Medical. Ca a corporation of herein referred to as "assignee" whose mailing address is In	ardiology Division.	*initial	
One St. Jude Medical Drive; St. Paul, Minnesola 55117-9983 177 East	t County Road B.	date/0/49820/	
is desirous of acquiring the entire right, title and interest in the same; St. Par	1	<u>-</u>	
	117***	**initial	
NOW THEREFORE in consideration of the sum of one dollar (\$ 1.)	the receipt whereof !	··· ———	
is acknowledged, and other good and valuable consideration, I as assignor here assignee my entire right, title and interest for the United States of America and	by sell, assign and set over to said	date/OAPRZO	
I by continuous de dispersión provisional patent application and all original, divisi	onal, continuation, continuation-in- i		
I next, substitute or rejecus conflications and nategie applied for or granted therei	ior in the United States of America 1	***initial	
and all other countries for said invention, including without limitation all applicat	tions and patents for sale invention i		
I alciming priority or benefit of the aforesaid provisional application pursuant to a	inviaw of treaty, and including the i	date /OAPR 2	
right to claim such priority or benefit and the Commissioner of Patents and Tra	sid assignee herein, as assignee of	10/1/06	
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			
sorros and coverant without further remuneration to execute and deliver all original, divisional, continuation, i			
I release and other applications for Letters Patent on said improvements and all assignments thereof to said i			
1 perference the periods to communicate to said assigned or its representatives all facils known to the undersigned !			
t annually and improvements who never requested to testily in any interferences or other legal proceedings in t			
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 da	te and application number of said		
application when known.	10 and approximately 11 and 11		
application who known	1		
17/5EP/2010 BURNEY	Say To The Say of the		
(Uate)	(Signapay		
State of WINNESTED) SS:	•		
County of AYOKA)			
On this TH day of SOLOMOSE , 2010 before me personally	came the above-named <u>Bradley</u>	1	
Observed Knippel to make a regardly known as the Individual who executive	ed the foregoing instrument, who	I	
acknowledged to me that the same was executed by him/her of his/her own tr	ee will for the purposes therein set	ĺ	
forth.			
Ic Oliver of Alini	Balbera (Paliata I		
I MANION X TOMIL	ANDREA J PAHAN NOTARY PUBLIG	Ì	
(Notary Public)	MINNESOTA	ł	
LD-525\	ily Commission Expires Jan. 31, 2015		
	The state of the s	1	

Assignments STJTJDE 3 8-120,doc

Page 1 of 2

State of Minnesota) SS: County of Acolor)	
Charles Knippel, to me personally known as the individ-	
acknowledged to me that the same was initialed by him-	of his own free will for the purposes therein set
forth. Add 1000 Ad Man	
(Notary Public)	ANDREA J PAHAN NOTARY PUBLIC MINNESOTA No Campulson Froires Jan. 31, 2015

James Mary		PTO/BB(16/8:00) MocAlled	
	ASSIGNMENT OF PROVISIONAL APPLICATION	Docket Number (Optional) STJUDE 3.8-120	
	Whereas, I, Hulsun Wang	of .	
l	6275 Fernbrook Lane North; Maple Groye, Minnesota 55311	A STATE OF THE PARTY OF THE PAR	
The state of the s	hereafter referred to as Assignor, have with others invented certain new and t STAGED DEVELOPMENT DEVICES AND METHODS TRANSCATHETER DELIVERY	useful improvements in HEART VALVE	
	x for which a provisional application for a United States Patent was filled of	on <u>September 17, 2010</u>	
	Application Number 61/384,032 for which a provisional application for a United States Patent was executed.	nd on	•
	Delaware**		*initial HW
	and Whereas, St. Jude Medical, C. a corporation of herein referred to as "assignee" whose mailing address is Dec Medical Driver St. Paul Mirmesota 55117-8989 177 Ea	nc.*	date 04-09,2014
	is desirous of acquiring the entire right, title and interest in the same; St. Pa	ul, Minnesota 117***	**initial HW
	NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.	.00), the receipt whereof	date April 9,2014
	assignee my entire right, title and interest for the United States of America and inventor, and the efficient provisional natest application and all original, divisional natest application and all original, divisional nates.	nd all other countries in and to said : ional, continuation, continuation-in-	***initial HW
l	part, substitute or relissue applications and patents applied for or granted there and all other countries, for said invention, including without limitation all applicationing priority or benefit of the aforesaid provisional application pursuant to	itions and patents for said invention any law or treaty, and including the	date April 9, 2014
ight to claim such priority or benefit and the Commissioner of Patents and Irademarks is nereby authorized and in			
	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, release 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 table known to the undersigned		
which any of said applications or patents may become involved, to sign all fawful papers, make all rightful oaths, and to do generally everyithing necessary to ald assignee, its successors, assigne 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 assignes.	,	
	And I do hereby authorize my attorneys, to insert on this dead the filling diapplication when known.	ate and application number of said	
	SED 17 2010	Who is	
	SEP_17, 2010 4 (Date) State of Minnesota) 98:	(Signature)	
	State of Minnesota) 98: . County of Henneph)	·	
	On this 17 day of September, 2010 before me personally Wang, to me personally known as the individual who executed the foregoing that the same was executed by him/her of his/her own free will for the purpose	instrument, who acknowledged to me	
	0	CHRISTINA KAY OROCKER	
	(Nolary Public)	Minnenote My Comm. Expless Jen 51, 2015	
			4.29.5

Page 1 of 2

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2012 hafara ma nagarally ages the alast and IV.
, 2013 before me personally came the above-named Huisun
e individual who initialed the foregoing instrument, who
tialed by him of his own free will for the purposes therein set
* *

Page 2 of 2

	PTO/SB/15 (B-00) Mostified	r. 💌
ASSIGNMENT OF PROVISIONAL APPLICATION	Docket Number (Optional) STJUDE 3.8-120	
Whereas, I, Ralph Joseph Thomas 7616 113 1/2 Ave N; Champlin, Minnesota 55316	of	
hereafter referred to as Assignor, have with others invented certain new and STAGED DEVELOPMENT DEVICES AND METHODS TRANSCATHETER DELIVERY	useful improvements in HEART VALVE	
X for which a provisional application for a United States Patent was filed	on September 17, 2010	
Application Number 61/384,032		
for which a provisional application for a United States Patent was execute	ed on	
and Whereas, Delaware** and Whereas, St. Jude Medical, Cr a corporation of herein referred to as "assignee" whose mailing address is In	ardiology Division,	*initial **
One St. Jude Medical Drive; St. Paul, Minnesota 55117-9983 177 East is desirous of acquiring the entire right, title and interest in the same; St. Pa	st County Road B.	date 08 Apr 2014
도 보고 있는 사람들은 사람들이 되었다. 그는 사람들이 되었다면 보고 있는 사람들이 되었다면 보고 있다면 보고 	5117*** .00), the receipt whereof	**initial <u>RT</u>
assignee my entire right, title and interest for the United States of America and appendix and the afgressid provisional patent application and all original, divisional patent application and all original, divisional patents.	id all other countries in and to said in its said in a said in its	date og Aprzo14
part, substitute or reissue applications and patents applied for or granted there and all other countries, for said invention, including without limitation all applicationing priority or benefit of the aforesaid provisional application pursuant to	efor in the United States of America itions and patents for said invention	***initial 27
right to claim such priority or benefit and the Commissioner of Patents and Tr	ademarks is hereby authorized and aid assignee herein, as assignee of	date OBApr 2014
the entire interest therein; and the undersigned for me and my legal represent	atives, heirs and assigns do nereby	
ressue and other applications for Letters Patent on said improvements are assignee or its assigns, to communicate to said assignee or its representatives respecting said improvements, whenever requested, to testify in any interference.	all facts known to the undersioned	
which any of said applications or patents may become involved, to sign all lateral to do generally everything persessory to aid assignee, its successors, ass	wtul papers, make all rightful caths, Igns and nominees to obtain patent	
protection for said improvements in all countries, the expenses incident to sail by said assignee.	d applications to be borne and paid	
And I do hereby authorize my attorneys, to insert on this deed the filing da	ate and application number of said	
application when known		
Alexander of the state of the s	Karana and an and an	
(Date)	(Signature)	
State of Municiple) SS:		
County of Accompen)		
On this 17 day of September, 2010 before me personally	came the above-named Ralph	
Joseph Thomas, to me personally known as the individual who execu acknowledged to me that the same was executed by him/her of his/her own to	ted the foregoing instrument, who	
acknowledged to me that the same was executed by fillither of marter own to forth.	188 Will for the purposes the our sec	
	HRISTINA KAY CROCKER Notary Public	
100000	Minnesota	
(Notary Public)	My Comm. Expires Jan 31, 2015	
		1

Assignments STJUDE 3 8-120

Page 1 of 2

State of Minnesota) SS: County of 100)	
On this Stay of April , 2014 before me personally car	ne the above-named Ralph
Joseph Thomas, to me personally known as the individual who initialed the	foregoing instrument, who
acknowledged to me that the same was initialed by him of his own free will	for the purposes therein set
forth.	
	NDREA J PAHAN NOTARY PUBLIC MINNESOTA mmission Expires Jan. 31, 2015

	PTO/SU(15 IB-00) MOREM	
ASSIGNMENT OF PROVISIONAL APPLICATION	Docket Number (Optional) STJUDE 3,8-120	angina kanalan dari dari Mangalangan
Whereas, I, Jacob John Daty	of	
12472 Fergus Ct, NE; Blaine, Minnesota 55449		
hereafter referred to as Assignor, have with others invented certain new and u STAGED DEVELOPMENT DEVICES AND METHODS TRANSCATHETER DELIVERY		
x for which a provisional application for a United States Patent was filed o	n <u>September 17, 2010</u>	
Application Number 61/384,032		
for which a provisional application for a United States Patent was execute	d on	a será cercosale
Delaware**		*initial <u>J.O</u> ,
and Whereas, St. Jude Medical, Ins. St. Jude Medical, Ca	Andrew Comments and Comments an	000001
	2.*	date OBAPR 14
One St. Jude Medical Drive; St. Paul, Minnesota 55117-9883 177 Eas: Is desirous of acquiring the entire right, title and Interest in the same; St. Par	E County Road B.	**initial J.D.
	17***	Tillicial 3/V.
	DO), the receipt whereof	date OS APRIY
assignee my entire right, title and interest for the United States of America and invention and the aforesaid provisional patent application and all original, divisi	i all other countries in and to said onal, continuation, continuation,	***initial 3.0.
part, substitute or reissue applications and patents applied for or granted theref	or in the United States of America ions and patents for said invention	date USAPRIY
l claiming priority or benefit of the aforesaid provisional application pursuant to a	ny law or treaty, and including the	dace ODITINI
right to claim such priority or benefit and the Commissioner of Patents and Tra requested to issue all patents on said improvements or resulting therefrom to sa	ild assignee herein, as assignee of	
the entire interest therein; and the underslaned for me and my legal representa		
agree and covenant without further remuneration, to execute and deliver all relissue and other applications for Letters Patent on said improvements and	d all assignments thereof to said	
is assigned or its assigns, to communicate to said assigned or its representatives.	all facts known to the undersigned	
respecting said improvements, whenever requested, to testify in any interference which any of said applications or patents may become involved, to sign all law	ful papers, make all rightful caths.	
and to do panarally eventhing necessary to aid assigned its successors, assigned		
protection for said improvements in all countries, the expenses incident to said applications to be borne and paid		
by sald assignee.	and an Heating which we selet	
And I do hereby authorize my attorneys, to insert on this deed the filing dat application when known.	e and application number of said	
committee of the commit	0.20 a	
17SEPTIO Spare	Del	
(Date)	(Signature)	
State of MINNES OTCL) SS:		
County of HYOKEL)		
On this THoay of SCHANDEN 2010 before me personally carr	ne 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.		
that the same was executed by him/her of his/her own free will for the purposes	u lot out set forut,	
1 1/1 00 1/101		
ANDREA J PAHAN NOTARY PUBLIC		
(Notary Public)	MINNESOTA	
LD-525\ My Corm	jaston Expires Jan. 31, 2016	

Assignments STJUDE 3 8-120.doc

Page 1 of 2

State of Minnesota,) SS: County of)	
On this St day of AOVI	, 2011 before me personally came the above-named Jacob
John Daly, to me personally known as t	he individual who initialed the foregoing instrument, who ialed by him of his own free will for the purposes therein set
forth.	
(Notary Public)	ANDREA J PAHAN NOTARY PUBLIC MINNESOTA