504521957 08/28/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4568663

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| JOHN B. BLIX | 03/05/2014 |
| JAMES C. BAKER | 02/26/2014 |
| KEVIN K. ENNETT | 02/26/2014 |
| SUKANYA VARADHARAJAN | 02/26/2014 |
| MICHAEL OLSEN | 02/27/2014 |
| CATHERINE A. PIPENHAGEN | 02/27/2014 |

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: | 15687859 |

CORRESPONDENCE DATA

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: 314-621-5070

Email: USpatents@armstrongteasdale.com
Correspondent Name: ARMSTRONG TEASDALE LLP (32736)

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Address Line 4: ST. LOUIS, MISSOURI 63105

ATTORNEY DOCKET NUMBER: CD-807US3

NAME OF SUBMITTER: CHRISTOPHER M. GOFF

SIGNATURE: /Christopher M. Goff/

DATE SIGNED: 08/28/2017

PATENT 504521957 REEL: 043421 FRAME: 0850

Total Attachments: 10 source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page1.tif source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page2.tif source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page3.tif source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page4.tif source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page5.tif source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page6.tif source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page7.tif source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page8.tif source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page9.tif source=CD-807US3 Executed Assignment_SJM Inventors - from parent-27026798#page9.tif

PATENT REEL: 043421 FRAME: 0851

Applicants:

John B. Blix et al.

Docket No.:

CD-807US

Serial No.:

61/817,561

Group:

To be assigned

Confirmation No:

9841

Examiner:

To be assigned

Filed:

April 30, 2013

For:

ABLATION SYSTEM, METHODS, AND CONTROLLERS

Assignment - Joint Inventors

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

WHEREAS John B. Blix residing in 6583 Lanewood Lane North, Maple Grove, Minnesota 55311, and James C. Baker residing in 3448 Churchill Drive, Woodbury, Minnesota 55125, and Kevin K. Ennett residing in 1466 Pheasant Hills Drive, Lino Lakes, Minnesota 55038, and Sukanya Varadharajan residing in 1621 Woodlynn Avenue East, Unit 4, Maplewood, Minnesota 55109, and Michael Olsen residing in 13909 Utah Avenue, Savage, Minnesota 55376, and Catherine A. Pipenhagen residing in 10720 15th Avenue North, Plymouth, Minnesota 55441, (hereinafter collectively referred to as Assignors), have made an invention and have each either (1) previously executed an application for Letters Patent of the United States of America therefor or (2) are contemporaneously executing an application for Letters Patent of the United States of America for the invention which is entitled:

ABLATION SYSTEM, METHODS, AND CONTROLLERS

AND WHEREAS St. Jude Medical, Cardiology Division, Inc., a corporation of the State of Delaware, having offices at 177 East County Road B, St. Paul, Minnesota 55117-9913 United States of America, (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said invention and under said Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors hereby sell, assign and transfer to the Assignee the full and exclusive right, title and interest to said invention and in and to any and all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, continuation-in-part, divisional, renewal, substitute, re-examination, conversion or reissue thereof, including all extensions thereof, or any legal equivalent thereof in any foreign country for the full term or terms for which the same may be granted, including any and all convention rights.

The Assignors hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

The Assignors further covenant that the Assignors will promptly provide, upon written request, Assignee with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to the Assignors and that they will promptly execute and deliver to Assignee or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue, extend and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, the Assignors have executed this document on the date indicated below:

| John B 30 | Date: 5 MAR 2014 |
|----------------|------------------|
| John B. Blix | |
| V | Date: |
| James C. Baker | |

| | Date: | |
|-----------------------------|-------|--|
| Kevin K. Ennett | | |
| | Date: | |
| Sukanya Varadharajan | | |
| | Date: | |
| Michael Olsen | | |
| | Date: | |
| Catherine A. Pipenhagen | | |

Applicants:

John B. Blix et al.

Docket No.:

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9841

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IN WITNESS WHEREOF, the Assignors have executed this document on the date indicated below:

| | Date: |
|----------------|-------------------|
| John B. Blix | |
| Louis C. Ball | Date: 26 Feb 20/4 |
| James C. Baker | 7 |

PATENT REEL: 043421 FRAME: 0854

| Georg (En Se) | Date: 26 Feb 2014 |
|------------------------|--|
| Kevin K. Ennett | |
| | Date: |
| Sukanya Varadharajan | |
| | Date: |
| Michael Olsen | |
| | Date: |
| Catherine A Pinenhagen | no management and man |

| Applicants: | John B. Blix et al. | Docket No.: | CD-807US |
|--|---|------------------|---|
| Serial No.: | 61/817,561 | Group: | To be assigned |
| Confirmation No: | 9841 | Examiner: | To be assigned |
| Filed: | April 30, 2013 | | |
| For: | ABLATION SYSTEM, METHODS, AND CONTRO | LLERS | |
| | Assignment – Joi | nt Inventors | |
| Commissioner for Pat P.O. Box 1450 Alexandria, VA 22313 | | | |
| Sir: | | | |
| WHEREAS John B. Blix residing in 6583 Lanewood Lane North, Maple Grove, Minnesota 55311, and James C. Baker residing in 3448 Churchill Drive, Woodbury, Minnesota 55125, and Kevin K. Ennett residing in 1466 Pheasant Hills Drive, Lino Lakes, Minnesota 55038, and Sukanya Varadharajan residing in 1621 Woodlynn Avenue East, Unit 4, Maplewood, Minnesota 55109, and Michael Olsen residing in 13909 Utah Avenue, Savage, Minnesota 55376, and Catherine A. Pipenhagen residing in 10720 15 th Avenue North, Plymouth, Minnesota 55441, (hereinafter collectively referred to as Assignors), have made an invention and have each either (1) previously executed an application for Letters Patent of the United States of America therefor or (2) are contemporaneously executing an application for Letters Patent of the United States of America for the invention which is entitled: | | | |
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| IN WITNESS WHEREOF, the Assignors have executed this document on the date indicated below: | | | |
| | | Dat | e: |
| | John B. Blix | | |

James C. Baker

PATENT REEL: 043421 FRAME: 0856

Date:

| | Date: |
|-------------------------|----------------------|
| Kevin K. Ennett | |
| Sukay | Date: 26th Feb 2014. |
| Sukariya Varadharajan | |
| | Deter |
| | Date: |
| Michael Olsen | |
| | Date: |
| Catherine A. Pipenhagen | |

| Applicants: | John B. Blix et al. | Docket No.: | CD-807US |
|--|---|----------------------|--|
| Serial No.: | 61/817,561 | Group: | To be assigned |
| Confirmation No: | 9841 | Examiner: | To be assigned |
| | April 30, 2013 | Examiner. | 10 00 255.g.105 |
| Filed: | ABLATION SYSTEM, METHODS, AND CONTRO | ILLEDS | |
| For: | ABLATION STSTEM, METHODS, AND CONTRO | LLLING | |
| | Assignment – Joi | int Inventors | |
| Commissioner for Pa P.O. Box 1450 Alexandria, VA 22313 | | | |
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| IN WITNESS WHER | EOF, the Assignors have executed this documen | it on the date indic | ated below: |
| | | , | |
| | | Dat | te: |

James C. Baker

John B. Blix

Date:

| | Date: |
|-------------------------|-------------------|
| Kevin K. Ennett | |
| | Date: |
| Sukanya Varadharajan | |
| Mutul Okey | Date: 27 Feb 2614 |
| Michael Olsen | |
| | Date: |
| Catherine A. Pipenhagen | |

| Applicants: | John B. Blix et al. | Docket No.: | CD-807US | | |
|---|---|---|---|--|--|
| Serial No.: | 61/817,561 | Group: | To be assigned | | |
| Confirmation No: | 9841 | Examiner: | To be assigned | | |
| Filed: | April 30, 2013 | | | | |
| For: | ABLATION SYSTEM, METHODS, AND CONTROL | LLERS | | | |
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| documents relating to known and accessible | covenant that the Assignors will promptly provide said application, said invention and said Letters to the Assignors and that they will promptly exe- ments or affidavits required to apply for, obtain, m tters Patent and said equivalents thereof in any for | Patent and legal e ecute and deliver t naintain, issue, ext | equivalents in foreigh countries as may be o Assignee or its legal representatives any end and enforce said application, said | | |
| IN WITNESS WHEREOF, the Assignors have executed this document on the date indicated below: | | | | | |
| | | Dat | e: | | |

John B. Blix

James C. Baker

PATENT REEL: 043421 FRAME: 0860

Date:

| | Date: | |
|-------------------------|----------|----------|
| Kevin K. Ennett | | |
| | Date: | |
| Sukanya Varadharajan | | |
| | Date: | |
| Michael Olsen | | |
| Catherine A-Freehouse | Date: 27 | FEB 2014 |
| Catherine A. Pipenhagen | • | |