

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6318850

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	2

CONVEYING PARTY DATA

Name	Execution Date
LUXCATH, LLC	05/21/2019

RECEIVING PARTY DATA

Name:	460MEDICAL, INC.
Street Address:	33 HURON AVENUE
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02138

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	16943542
Application Number:	16879898

CORRESPONDENCE DATA**Fax Number:** (617)897-0909*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:** 6173106009**Email:** BOSIPMAIL@GTLAW.COM**Correspondent Name:** DAVID J. DYKEMAN**Address Line 1:** GREENBERG TRAUIG, LLP**Address Line 2:** ONE INTERNATIONAL PLACE, SUITE 2000**Address Line 4:** BOSTON, MASSACHUSETTS 02110

NAME OF SUBMITTER:	DAVID J. DYKEMAN
SIGNATURE:	/David J. Dykeman, Reg. No. 46,678/
DATE SIGNED:	09/25/2020

Total Attachments: 17

source=ExecutedPatentAssignmentAgreement#page1.tif
source=ExecutedPatentAssignmentAgreement#page2.tif
source=ExecutedPatentAssignmentAgreement#page3.tif
source=ExecutedPatentAssignmentAgreement#page4.tif

source=ExecutedPatentAssignmentAgreement#page5.tif
source=ExecutedPatentAssignmentAgreement#page6.tif
source=ExecutedPatentAssignmentAgreement#page7.tif
source=ExecutedPatentAssignmentAgreement#page8.tif
source=ExecutedPatentAssignmentAgreement#page9.tif
source=ExecutedPatentAssignmentAgreement#page10.tif
source=ExecutedPatentAssignmentAgreement#page11.tif
source=ExecutedPatentAssignmentAgreement#page12.tif
source=ExecutedPatentAssignmentAgreement#page13.tif
source=ExecutedPatentAssignmentAgreement#page14.tif
source=ExecutedPatentAssignmentAgreement#page15.tif
source=ExecutedPatentAssignmentAgreement#page16.tif
source=ExecutedPatentAssignmentAgreement#page17.tif

PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT (the "Agreement") is effective as of May 21, 2019 (the "Effective Date"), by and between LuxCath, LLC, a Delaware limited liability company, with its principal place of business located at 33 Arch Street, Suite 3201, Boston, MA 02110 ("Assignor"), and 460Medical, Inc., a Delaware corporation, with its principal place of business located at 33 Huron Avenue, Cambridge, MA 02138 ("Assignee"), (each a "Party" and collectively the "Parties").

WHEREAS, Assignor is the owner of certain rights, title and interest in and to the inventions, discoveries and applications (collectively the "Inventions") as described and claimed in the United States and foreign patents and patent applications as listed on Schedule A (collectively the "Patents") hereto;

NOW, THEREFORE, in consideration of the mutual covenants and agreements of the Parties, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed as follows:

ASSIGNMENT

(1) Assignor hereby irrevocably sells, transfers, assigns and sets over to Assignee all of Assignor's rights, title and interest (for all countries) in and to the Inventions and Patents, and all of Assignor's rights and privileges under any letters patent that may be granted therefor and thereon and all continuations, divisions, reissues, reexaminations and extensions thereof; and all applications for industrial property protection, including without limitation, all applications for patents, utility models, copyright, and designs which may hereafter be filed for said Inventions and Patents in any country or countries, together with the right to file such applications and the right to claim for the same the priority rights derived from the Patents under the patent laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, copyrights and designs which may hereafter be filed for said Inventions or Patents in any country or countries, together with the right to file such applications; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates, copyrights and designs which may be granted for said Patent in any country or countries and all extensions, renewals and reissues thereof.

(2) Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States, whose duty is to issue patents or other evidence or forms of industrial property on applications as aforesaid, to issue the same to Assignee, its successors, assigns and legal representatives or nominees.

(3) Assignor agrees that, at any time, upon the reasonable request of the Assignee and at the cost or expense of Assignee, Assignor will execute and deliver all papers, take all rightful

Patent Assignment Agreement

oaths, and do all acts which may be reasonably necessary or desirable to secure and maintain patent protection on the Inventions throughout all countries of the world and for vesting title thereto in Assignee, its successors, assigns and legal representatives or nominees, and otherwise to do what is reasonably necessary to give full effect to and to perfect the rights of the Assignee under this Agreement, including the execution, delivery and procurement of any and all further documents evidencing this Agreement, transfer and sale as may be reasonably necessary or desirable.

(4) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement.

(5) Assignor authorizes and empowers Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for the Inventions, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable, and to invoke and claim such right of priority without further written or oral authorization from Assignor.

(6) Assignor hereby consents that a copy of this Agreement shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document that may be required in any country for any purpose and more particularly in proof of the right of Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

(7) In the event that pursuant to any applicable law Assignor retains any rights in and to the Inventions and Patents that cannot be assigned to the Assignee, Assignor hereby unconditionally and irrevocably waives the enforcement of all such rights, and all claims and causes of action of any kind with respect to any of the foregoing and agrees, at the request and expense of the Assignee, its successors, assigns and legal representatives or nominees, to consent to and join in any action to enforce such rights and to procure a waiver of such rights from the holders of such rights, if any.

(8) In the event that Assignor retains any rights in and to the Inventions or Patents that cannot be assigned to Assignee and cannot be waived, Assignor hereby grants Assignee, its successors, assigns and legal representatives or nominees, an exclusive, perpetual, worldwide, royalty-free license to exploit, use, develop, perform, modify, change, reproduce, publish and distribute, with the right to sublicense and assign such rights, and all claims and causes of action of any kind with respect to any of the foregoing, in and to the Inventions and Patents, in any way Assignee sees fit and for any purpose whatsoever.

(9) Assignor hereby irrevocably waives any right to any royalties or any other payment with regard to any of the Inventions or Patents and confirms that all of the rights, title and interest in and to the Inventions and Patents sold, transferred, assigned and set over to Assignee hereunder include all of Assignor's rights in income, royalties, damages and payments now or hereafter due or payable with respect thereto, and to bring all causes of action (whether in law or

Patent Assignment Agreement

equity) and all Assignor's rights to sue, counterclaim, and recover for the past, present and future infringement of the rights assigned or to be assigned hereunder.

(10) If any portion of this Agreement is found to be contrary to law or ineffective, the remainder of the Agreement shall survive and be interpreted, to the maximum extent possible, for the purpose of carrying out the intent of the parties which is the full and complete transfer and assignment of all Assignor's Inventions and Patents to Assignee.

IN WITNESS WHEREOF, the Parties hereto have signed this Patent Assignment Agreement on the date below.

ASSIGNOR -- LuxCath, LLC

By: Michael Turner

Printed Name: Michael Turner

Title: VP and Secretary

Address: 33 Arch Street, Suite 3201, Boston, MA 02110

Date: May 21, 2019

County of Suffolk)
) ss.
Commonwealth of Massachusetts)

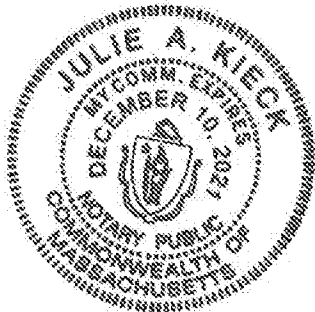
Subscribed and sworn to before me by the above-named Michael Turner on May 21, 2019.

Notary Public Julie A. Kieck

My Commission Expires: December 10, 2021

Julie A. Kieck

(Seal)



SCHEDULE A

PATENT APPLICATIONS & PATENTS

TITLE	INVENTORS	COUNTRY	APPLICATION NO./ APPLICATION DATE	PUBLICATION NO./ DATE	ACTION DUE/STATUS
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	U.S. CIP	13/624,902 9/22/2012	US-2013-0079645 3/28/13	U.S. PATENT NO. 9,084,611 ISSUED ON 7/21/2015 (33 CLAIMS, 6 INDEPENDENT) ASSIGNMENTS RECORDED AT GWU: REEL/FRAME: 032885/0644 LUXCATH: REEL/FRAME: 032885/0622
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	PCT	PCT/US12/56771 9/22/2012	WO2013/044182 3/28/13	ENTERED NATIONAL PHASE IN 5 COUNTRIES: AUSTRALIA, CHINA, EUROPE, JAPAN, KOREA (SOUTH)
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	AUSTRALIA	2012312066 9/22/2012		AUSTRALIAN PATENT NO. 2012312066 ISSUED 6/2/16 (34 CLAIMS, 7 INDEPENDENT) ANNUITY DUE 9/22/19

Patent Assignment Agreement

SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	CHINA	201280051914.X 9/22/2012	CN104066368A 9/24/14	CHINA PATENT NO. ZL 201280051914.X ISSUED 2/22/17 (28 CLAIMS, 5 INDEPENDENT) ANNUITY DUE 9/22/19
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	EUROPE	12834435.5 9/22/2012	2757933 7/30/14	VALIDATED IN 7 COUNTRIES: BELGIUM, FRANCE, GERMANY, ITALY, SPAIN, NETHERLANDS AND UNITED KINGDOM (11 CLAIMS, 1 INDEPENDENT)
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	JAPAN	2014-532054 9/22/2012	2015-505678 2/26/15	JAPANESE PATENT NO. 5926806 ISSUED 4/28/16(26 CLAIMS, 5 INDEPENDENT)
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	KOREA (SOUTH)	10-2014-7010603 9/22/2012		PENDING

Patent Assignment Agreement

SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	U.S. CON OF CIP	14/689,475 4/17/2015	US-2015-0327753 11/19/2015	U.S. PATENT NO. 10,076,238 ISSUED ON 9/18/18 (14 CLAIMS, 4 INDEPENDENT) ASSIGNMENTS RECORDED AT GWU: REEL/FRAME: 038082/0035 LUXCATH: REEL/FRAME: 038082/0091
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	AUSTRALIA DIV	2016201418 3/3/2016		AUSTRALIAN PATENT NO. 2016201418 ON 7/19/18 ANNUITY DUE 9/22/19
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	JAPAN DIV	INT. FILING DATE 9/22/12 2016037741 2/29/2016	2016-127993 ON 7/14/16	RESPONSE TO OFFICE ACTION DUE 6/4/19
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZYAN, NARINE	U.S. CON2	15/986,970 5/23/2018	US-2018-0263476 ON 9/20/18	RESPONSE TO FINAL OFFICE ACTION DUE 6/10/19 WITH EXTENSIONS UNTIL 7/10/19 FILE RCE OR NOTICE OF APPEAL DEADLINE 7/10/19

Patent Assignment Agreement

SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZIAN, NARINE	AUSTRALIA DIV	2018204324	INT. FILING DATE 9/22/12 6/15/18 2018204324	REQUEST FOR EXAM FILED 8/22/18
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZIAN, NARINE	BELGIUM	12834435.5	2757933 7/30/14	BELGIUM VALIDATION OF EUROPEAN PATENT NO. 2757933 ISSUED 2/6/19
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZIAN, NARINE	FRANCE	12834435.5	2757933 7/30/14	FRANCE VALIDATION OF EUROPEAN PATENT NO. 2757933 ISSUED 2/6/19
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZIAN, NARINE	GERMANY	12834435.5	2757933 7/30/14	GERMANY VALIDATION OF EUROPEAN PATENT NO. 2757933 ISSUED 2/6/19
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZIAN, NARINE	ITALY	12834435.5	2757933 7/30/14	ITALY VALIDATION OF EUROPEAN PATENT NO. 2757933 ISSUED 2/6/19

Patent Assignment Agreement

	TERRANCE J. SARVAZIAN, NARINE				
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZIAN, NARINE	SPAIN	12834435.5	2757933 7/30/14	SPAIN VALIDATION OF EUROPEAN PATENT NO. 2757933 ISSUED 2/6/19
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZIAN, NARINE	NETHERLANDS	12834435.5	2757933 7/30/14	NETHERLANDS VALIDATION OF EUROPEAN PATENT NO. 2757933 ISSUED 2/6/19
SYSTEMS AND METHODS FOR VISUALIZING ABLATED TISSUE	AMIRANA, OMAR ARMSTRONG, KENNETH C. KAY, MATTHEW W. MERCADER, MARCO A. RANSBURY, TERRANCE J. SARVAZIAN, NARINE	UNITED KINGDOM	12834435.5	2757933 7/30/14	UNITED KINGDOM VALIDATION OF EUROPEAN PATENT NO. 2757933 ISSUED 2/6/19
SYSTEMS AND METHODS FOR DETERMINING ABLATION LESION DEPTH USING FLUORESCENCE IMAGING	MERCADER, MARCO A. SARVAZIAN, NARINE RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. AMIRANA, OMAR	U.S.PRO	61/904,018 11/14/2013		CONVERTED TO US AND PCT ON 11/14/2014 ASSIGNMENTS RECORDED AT GWU: REEL/FRAME: 034165/0734 LUXCATH: REEL/FRAME: 034165/0825

Patent Assignment Agreement

SYSTEMS AND METHODS FOR DETERMINING ABLATION LESION DEPTH USING FLUORESCENCE IMAGING	MERCADER, MARCO A. SARVAZIAN, NARINE RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. AMIRANA, OMAR	U.S.	14/541,991 11/14/2014	US-2015-0196202 7/16/15	RESPONSE TO FINAL OFFICE ACTION DUE 5/24/19 DEADLINE 7/24/19 FILE RCE OR NOTICE OF APPEAL DEADLINE 7/24/19 ASSIGNMENTS RECORDED AT GWU: REEL/FRAME: 036960/0126 LUXCATH: REEL/FRAME: 036960/0086
SYSTEMS AND METHODS FOR DETERMINING ABLATION LESION DEPTH USING FLUORESCENCE IMAGING	MERCADER, MARCO A. SARVAZIAN, NARINE RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. AMIRANA, OMAR	PCT	PCT/US14/06577 4 11/14/2014	WO2015/073871 5/21/15	ENTERED NATIONAL PHASE IN 3 COUNTRIES: CHINA, EUROPE AND JAPAN
SYSTEMS AND METHODS FOR DETERMINING ABLATION LESION DEPTH USING FLUORESCENCE IMAGING	MERCADER, MARCO A. SARVAZIAN, NARINE RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. AMIRANA, OMAR	CHINA	201480062665.3 11/14/2014	CN106028914A ON 10/12/2016	RESPONSE TO OFFICE ACTION DEADLINE - 5/26/19
SYSTEMS AND METHODS FOR DETERMINING ABLATION LESION DEPTH USING FLUORESCENCE IMAGING	MERCADER, MARCO A. SARVAZIAN, NARINE RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. AMIRANA, OMAR	EUROPE	14861958.8 11/14/2014	3068288 ON 9/21/16	RESPONSE TO SEARCH REPORT FILED 1/23/18
SYSTEMS AND METHODS FOR DETERMINING ABLATION LESION DEPTH USING	MERCADER, MARCO A. SARVAZIAN, NARINE RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C.	JAPAN	2016-530211 11/14/2014	2016-540558 ON 12/28/16	PENDING

Patent Assignment Agreement

FLUORESCENCE IMAGING	AMIRANA, OMAR				
SYSTEMS AND METHODS FOR LESION ASSESSMENT	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES MERCADER, MARCO A. SARVAZYAN, NARINE	PRO	62/074619 11/3/2014		CONVERTED TO US AND PCT ON 11/3/2015 ASSIGNMENT RECORDED AT GWU REEL/FRAME: 036947/0934 LUXCATH: REEL/FRAME: 037037-0950
SYSTEMS AND METHODS FOR LESION ASSESSMENT	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES MERCADER, MARCO A. SARVAZYAN, NARINE	U.S.	14/931,262 11/3/2015	US-2016-0120599 ON 5/5/16	RESPONSE TO OFFICE ACTION DUE 6/11/19 DEADLINE 7/11/19 ASSIGNMENTS RECORDED AT GWU: REEL/FRAME: 038082/0540 LUXCATH: REEL/FRAME: 038236/0266
SYSTEMS AND METHODS FOR LESION ASSESSMENT	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES MERCADER, MARCO A. SARVAZYAN, NARINE	PCT	PCT/US15/05882 4 11/3/15	WO 2016/073476 ON 5/12/16	ENTERED NATIONAL PHASE IN 5 COUNTRIES: AUSTRALIA, CHINA, EUROPE, JAPAN AND KOREA
SYSTEMS AND METHODS FOR LESION ASSESSMENT	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES MERCADER, MARCO A.	AU	2015343258 11/3/15		REQUEST EXAM DEADLINE 11/3/20

Patent Assignment Agreement

	SARVAZYAN, NARINE				
SYSTEMS AND METHODS FOR LESION ASSESSMENT	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES MERCADER, MARCO A. SARVAZYAN, NARINE	CN	201580067812 11/3/15	CN 107613849 A ON 1/19/18	AWAITING ACTION FROM CHINESE PATENT OFFICE
SYSTEMS AND METHODS FOR LESION ASSESSMENT	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES MERCADER, MARCO A. SARVAZYAN, NARINE	EP	15857544.9 11/3/15	3215002 ON 9/13/17	RESPONSE TO SEARCH REPORT FILED 1/30/19
SYSTEMS AND METHODS FOR LESION ASSESSMENT	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES MERCADER, MARCO A. SARVAZYAN, NARINE	JP	2017-523965 11/3/15	2017-537681 ON 12/21/17	REQUEST FOR EXAM FILED 11/2/18
SYSTEMS AND METHODS FOR LESION ASSESSMENT	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMONBO WEN,	KR	10-2017- 701472511/3/15		REQUEST EXAM DEADLINE 11/3/20

Patent Assignment Agreement

	JAMES MERCADER, MARCO A. SARVAZIAN, NARINE				
SYSTEMS AND METHODS FOR ASSESSMENT OF CONTACT QUALITY	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES H.	U.S. PRO	62/074,615 11/3/2014		CONVERTED TO US AND PCT ON 11/3/2015 ASSIGNMENT RECORDED AT REEL/FRAME: 037037/0812
SYSTEMS AND METHODS FOR ASSESSMENT OF CONTACT QUALITY	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES H.	U.S.	14/931,325 11/3/2015	US-2016-0120602 ON 5/5/16	U.S. PATENT NO. 10,143,517 GRANTED 12/4/18 ASSIGNMENT RECORDED AT REEL/FRAME: 038228/0073
SYSTEMS AND METHODS FOR ASSESSMENT OF CONTACT QUALITY	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES H.	PCT	PCT/US15/05885 I 11/3/2015	WO 2016/073492 ON 5/12/16	ENTERED NATIONAL PHASE IN 5 COUNTRIES: AUSTRALIA, CHINA, EUROPE, JAPAN AND KOREA
SYSTEMS AND METHODS FOR ASSESSMENT OF CONTACT QUALITY	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES H.	AU	2015343274 11/3/15		NEXT ANNUITY DUE 11/3/19 EXAMINATION REQUEST DEADLINE 11/3/20

Patent Assignment Agreement

SYSTEMS AND METHODS FOR ASSESSMENT OF CONTACT QUALITY	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES H.	CN	201580068293.X 11/3/15	CN 107427213A ON 12/1/17	AWAITING ACTION FROM CHINESE PATENT OFFICE
SYSTEMS AND METHODS FOR ASSESSMENT OF CONTACT QUALITY	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES H.	EP	15857521.7 11/3/15	3215001 ON 9/13/17	RESPONSE TO COMMUNICATION UNDER RULE 70(2) AND 70A(2) FILED 10/2/18
SYSTEMS AND METHODS FOR ASSESSMENT OF CONTACT QUALITY	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES H.	JP	2017-523968 11/3/15	2018-503411 ON 2/8/18	REQUEST EXAM FILED 11/2/18
SYSTEMS AND METHODS FOR ASSESSMENT OF CONTACT QUALITY	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES H.	KR	10-2017-7014726 11/3/15		REQUEST EXAM DUE 11/30/20
SYSTEM AND METHODS FOR DETERMINING TISSUE TYPE	AMIRANA, OMAR ARMSTRONG, KENNETH C. RANSBURY, TERRANCE J. LARSON, CINNAMON BOWEN, JAMES H.	US	16/167,933 ON 10/23/18		TRACK 1 NON FINAL OFFICE ACTION RESPONSE DUE 6/11/19 DEADLINE - 7/11/19
VISUALIZATION ON CATHETERS	RANSBURY, TERRANCE J. AMIRANA, OMAR ARMSTRONG, KENNETH C. LARSON,	U.S. PRO	62/084,174 11/25/2014		CONVERTED TO US AND PCT ON 11/25/2015 ASSIGNMENT RECORDED AT REEL/FRAE:

Patent Assignment Agreement

	CINNAMON				037137/0408
VISUALIZATION CATHETERS	RANSBURY, TERRANCE J. AMIRANA, OMAR ARMSTRONG, KENNETH C. LARSON, CINNAMON	U.S.	14/952,048 11/25/2015	US 2016-0143522 ON 5/26/16	RESPONSE TO FINAL OFFICE ACTION DUE 6/1/19 DEADLINE 9/1/19 ASSIGNMENT RECORDED AT REEL/FRAME: 038079/0684
VISUALIZATION CATHETERS	RANSBURY, TERRANCE J. AMIRANA, OMAR ARMSTRONG, KENNETH C. LARSON, CINNAMON	PCT	PCT/US15/06273 2 11/25/2015	WO 2016/086160 ON 6/2/16	ENTERED NATIONAL PHASE IN 5 COUNTRIES: AUSTRALIA, CHINA, EUROPE, JAPAN AND KOREA
VISUALIZATION CATHETERS	RANSBURY, TERRANCE J. AMIRANA, OMAR ARMSTRONG, KENNETH C. LARSON, CINNAMON	AU	2015353464 11/25/2015		REQUEST EXAM DUE 11/25/20
VISUALIZATION CATHETERS	RANSBURY, TERRANCE J. AMIRANA, OMAR ARMSTRONG, KENNETH C. LARSON, CINNAMON	CN	201580070555.6 11/25/2015	CN 107106221A ON 8/29/17	REQUEST FOR EXAM FILED 11/27/17
VISUALIZATION CATHETERS	RANSBURY, TERRANCE J. AMIRANA, OMAR ARMSTRONG, KENNETH C. LARSON, CINNAMON	EP	15863645.6 11/25/2015	3223735 ON 10/4/17	AWAITING ACTION FROM EPO
VISUALIZATION CATHETERS	RANSBURY, TERRANCE J. AMIRANA, OMAR ARMSTRONG, KENNETH C. LARSON, CINNAMON	JP	2017-528161 11/25/2015	2017-536891 ON 12/14/17	REQUEST EXAM FILED 11/14/18

Patent Assignment Agreement

VISUALIZATION CATHETERS	RANSBURY, TERRANCE J. AMIRANA, OMAR ARMSTRONG, KENNETH C. LARSON, CINNAMON	KR	10-2017-7017256 11/25/2015		REQUEST EXAM DUE 11/25/20
SYSTEMS AND METHODS FOR LESION FORMATION AND ASSESSMENT	AMIRANA, OMAR RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. LARSON, CINNAMON	U.S. PRO	62/194,276 7/19/2015		CONVERTED TO US AND PCT; US APPLICATION FILED 10/21/2015; PCT APPLICATION FILED 7/19/2016 ASSIGNMENT RECORDED AT REEL/FRAME: 036960/0011
SYSTEMS AND METHODS FOR LESION FORMATION AND ASSESSMENT	AMIRANA, OMAR RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. LARSON, CINNAMON	U.S.	14/919,004 10/21/2015	US 2017-0014202 ON 1/19/17	RESPONSE TO NON-FINAL OFFICE ACTION DUE 7/4/19 DEADLINE 10/4/19 ASSIGNMENT RECORDED AT REEL/FRAME: 038080/0712
SYSTEMS AND METHODS FOR LESION FORMATION AND ASSESSMENT	AMIRANA, OMAR RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. LARSON, CINNAMON	PCT	PCT/US16/04289 1 7/19/2016	WO2017/015257 ON 1/26/17	ENTERED NATIONAL PHASE IN 6 COUNTRIES: AUSTRALIA, CANADA, CHINA, EUROPE, JAPAN AND KOREA
SYSTEMS AND METHODS FOR LESION FORMATION AND ASSESSMENT	AMIRANA, OMAR RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. LARSON, CINNAMON	AU	2016297534 2/16/2018		FIRST RENEWAL FEE DUE 7/19/20 REQUEST EXAM DEADLINE 7/19/21
SYSTEMS AND METHODS FOR LESION FORMATION AND ASSESSMENT	AMIRANA, OMAR RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. LARSON, CINNAMON	CA	2,993,167 1/19/2018		REQUEST EXAM DEADLINE 7/19/21
SYSTEMS AND METHODS FOR LESION FORMATION	AMIRANA, OMAR RANSBURY, TERRANCE J. ARMSTRONG,	CN	201680050369 3/1/2018	CN 108135475A ON 6/8/18	PENDING

Patent Assignment Agreement

AND ASSESSMENT	KENNETH C. LARSON, CINNAMON				
SYSTEMS AND METHODS FOR LESION FORMATION AND ASSESSMENT	AMIRANA, OMAR RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. LARSON, CINNAMON	EP	16 828 397.6 2/19/2018	3324832 ON 5/30/18	RESPONSE TO COMMUNICATION PURSUANT TO RULE 161/162 EPC FILED 9/17/18
SYSTEMS AND METHODS FOR LESION FORMATION AND ASSESSMENT	AMIRANA, OMARRANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. LARSON, CINNAMON	JP	2018-502383	2018-520795 ON 8/2/18	REQUEST EXAM DEADLINE 7/19/19
SYSTEMS AND METHODS FOR LESION FORMATION AND ASSESSMENT	AMIRANA, OMAR RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C. LARSON, CINNAMON	KR	10-2018-7004502 2/13/2018		REQUEST EXAM DEADLINE 7/19/21
LIGHT SOURCE SUPPORT ASSEMBLIES FOR CATHETERS	AMIRANA, OMAR RANSBURY, TERRANCE J. ARMSTRONG, KENNETH C.	U.S. PRO	62/318,277 4/5/2016		EXPIRED - PER CLIENT ON 4/1/17. NO US OR FOREIGN FILINGS