

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5743392

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SENTRHEART, LLC	09/27/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SILICON VALLEY BANK
<b>Street Address:</b>	380 INTERLOCKEN CRESCENT
<b>Internal Address:</b>	SUITE 600
<b>City:</b>	BROOMFIELD
<b>State/Country:</b>	COLORADO
<b>Postal Code:</b>	80021
<b>PROPERTY NUMBERS Total: 76</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	6423051
Patent Number:	6488689
Patent Number:	7266458
Patent Number:	7736347
Patent Number:	7309328
Patent Number:	7318829
Patent Number:	7610104
Patent Number:	7828810
Patent Number:	7846168
Patent Number:	7918865
Patent Number:	8469983
Patent Number:	8721663
Patent Number:	8771297
Patent Number:	8795297
Patent Number:	8795310
Patent Number:	8974473
Patent Number:	8986278
Patent Number:	8986325
Patent Number:	8996133

PATENT

<b>Property Type</b>	<b>Number</b>
Patent Number:	9198664
Patent Number:	9271819
Patent Number:	9339295
Patent Number:	9408608
Patent Number:	9486281
Patent Number:	9498206
Patent Number:	9498223
Patent Number:	9522006
Patent Number:	9604053
Patent Number:	9724105
Patent Number:	9936956
Patent Number:	10130369
Application Number:	10105907
Application Number:	10105984
Application Number:	60510100
Application Number:	60528995
Application Number:	60670295
Application Number:	60678995
Application Number:	11687320
Application Number:	11687334
Application Number:	60921002
Application Number:	60974051
Application Number:	61165828
Application Number:	61323796
Application Number:	61323801
Application Number:	61323816
Application Number:	13086389
Application Number:	61494845
Application Number:	61778251
Application Number:	61821153
Application Number:	61717022
Application Number:	61898382
Application Number:	61946663
Application Number:	14272478
Application Number:	14530575
Application Number:	14625540
Application Number:	14633068
Application Number:	62137738

Property Type	Number
Application Number:	62137740
Application Number:	14799419
Application Number:	14928836
Application Number:	15041777
Application Number:	62300608
Application Number:	15203652
Application Number:	62399228
Application Number:	15356521
Application Number:	15442216
Application Number:	62746453
Application Number:	15634962
Application Number:	15634982
Application Number:	15669637
Application Number:	15713376
Application Number:	15934144
Application Number:	62648827
Application Number:	16149911
Application Number:	16269435
Application Number:	16289365

**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:** 800-494-5225

**Email:** ipteam@cogencyglobal.com

**Correspondent Name:** STEWART WALSH

**Address Line 1:** 1025 VERMONT AVE NW, STE 1130

**Address Line 2:** COGENCY GLOBAL INC.

**Address Line 4:** WASHINGTON, D.C. 20005

<b>NAME OF SUBMITTER:</b>	ALICIA VELLANTE
<b>SIGNATURE:</b>	/Alicia Vellante/
<b>DATE SIGNED:</b>	09/27/2019

**Total Attachments: 15**

source=Closing Copy (Joinder) - C.2 - Intellectual Property Security Agreement - AtriCure#page1.tif  
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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this “**Agreement**”) is entered into as of September 27, 2019 by and between (i) **SILICON VALLEY BANK** (“**Agent**”) and (ii) **SentreHEART LLC**, a Delaware limited liability company, successor by merger with **SentreHEART, Inc.** (“**Grantor**”).

### RECITALS

A. Agent and Lenders have agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the “**Loans**”) in the amounts and manner set forth in that certain Loan and Security Agreement, dated as of February 23, 2018, as amended by that certain First Amendment to Loan and Security Agreement dated December 28, 2018, as further amended by that certain Consent and Second Amendment to Loan and Security Agreement dated August 12, 2019, and as further amended by that certain Joinder and Third Amendment to Loan and Security Agreement dated as of even date herewith (as the same may be further amended, modified or supplemented from time to time, the “**Loan Agreement**”; capitalized terms used herein are used as defined in the Loan Agreement). Agent and Lenders are willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Agent, for the ratable benefit of the Lenders, a security interest in certain Copyrights, Trademarks, Patents, and Mask Works (as each term is described below) to secure the obligations of Grantor under the Loan Agreement.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Agent, for the ratable benefit of the Lenders, a security interest in all of Grantor’s right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

### AGREEMENT

To secure its obligations under the Loan Agreement, Grantor grants and pledges to Agent, for the ratable benefit of the Lenders, a security interest in all of Grantor’s right, title and interest in, to and under its intellectual property (all of which shall collectively be called the “**Intellectual Property Collateral**”), including, without limitation, the following:

1. Any and all copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the “**Copyrights**”);

2. Any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

3. Any and all design rights that may be available to Grantor now or hereafter existing, created, acquired or held;

4. All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the

same, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the “**Patents**”);

5. Any trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the “**Trademarks**”);

6. All mask works or similar rights available for the protection of semiconductor chips, now owned or hereafter acquired, including, without limitation those set forth on Exhibit D attached hereto (collectively, the “**Mask Works**”);

7. Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

8. All licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use to the extent permitted by such license or rights;

9. All amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

10. All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

This security interest is granted in conjunction with the security interest granted to Agent under the Loan Agreement. The rights and remedies of Agent with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Agent as a matter of law or equity. Each right, power and remedy of Agent provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Agent of any one or more of the rights, powers or remedies provided for in this Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Agent and/or any Lender, of any or all other rights, powers or remedies.

[Signature page follows.]

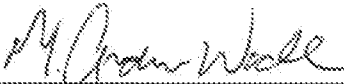
IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:

c/o AtriCure, Inc.  
7555 Innovation Way  
Mason, Ohio 45040  
Attn: M. Andrew Wade  
Fax: (513) 644-1315  
Email: awade@atricure.com

**SENTREHEART LLC**

By:   
Name: M. Andrew Wade  
Title: Senior Vice President and Chief Executive Officer

Signature Page to Intellectual Property Security Agreement

**PATENT**  
**REEL: 050575 FRAME: 0229**

AGENT:

Address of Bank:

**SILICON VALLEY BANK**

Silicon Valley Bank  
380 Interlocken Crescent, Suite 600  
Broomfield, Colorado 80021  
Attn: Tom Hertzberg  
Fax: (303) 469-9088  
Email: thertzberg@svb.com

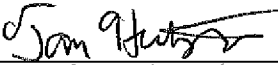
By:   
Name: Tom Hertzberg  
Title: Managing Director



EXHIBIT A

Copyrights

None.

## EXHIBIT B

### Patents

<u>U.S. Patents Issued</u>	<u>Patent No.</u>	<u>Issued</u>
METHODS AND APPARATUS FOR PERICARDIAL ACCESS	6,423,051	7/23/2002
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	6,488,689	12/3/2002
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	7,266,458	6/5/2007
METHODS AND APPARATUS FOR PERICARDIAL ACCESS	7,736,347	10/16/2007
METHODS AND APPARATUS FOR PERICARDIAL ACCESS	7,309,328	12/18/2007
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	7,318,829	1/15/2008
METHODS AND APPARATUS FOR LEAD PLACEMENT ON A SURFACE OF THE HEART	7,610,104	10/27/2009
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	7,828,810	11/9/2010
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	7,846,168	12/7/2010
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	7,918,865	4/5/2011
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	8,469,983	6/25/2013
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	8,721,663	5/13/2014
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	8,771,297	7/6/2014
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	8,795,297	8/5/2014
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	8,795,310	8/5/2014
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	8,974,473	3/10/2015
METHODS AND DEVICES FOR PERICARDIAL ACCESS	8,986,278	3/24/2015
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	8,986,325	3/24/2015
METHODS AND APPARATUS FOR LEAD PLACEMENT ON A SURFACE OF THE HEART	8,996,133	3/31/2015
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	9,198,664	12/1/2015
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	9,271,819	3/1/2016
PERICARDIAL ACCESS DEVICES AND METHODS	9,339,295	5/17/2016
TISSUE LIGATION DEVICES AND METHODS THEREFOR	9,408,608	8/9/2016
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	9,486,281	11/8/2016
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	9,498,206	11/22/2016
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	9,498,223	11/22/2016
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	9,522,006	12/20/2016
METHODS AND APPARATUS FOR LEAD PLACEMENT ON A SURFACE OF THE HEART	9,604,053	3/28/2017
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	9,724,105	8/8/2017
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	9,936,956	4/10/2018
TISSUE LIGATION DEVICES AND METHODS THEREFOR	10,130,369	11/20/2018

<u>U.S. Patent Applications</u>	<u>Application No.</u>	<u>Filing Date</u>
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	10/105,907	3/25/2002
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	10/105,984	3/25/2002
METHODS AND DEVICES FOR THE CATHETER-BASED MANIPULATION OF CARDIAC TISSUES	60/510,100	10/9/2003
METHODS AND DEVICES FOR THE MANIPULATION OF TISSUES INCLUDING THE HEART	60/528,995	12/12/2003
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	60/670,295	4/7/2005
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	60/678,995	5/2/2005
METHODS AND APPARATUS FOR LEAD PLACEMENT ON A SURFACE	11/687,320	3/16/2007

OF THE HEART

METHODS AND APPARATUS FOR LEAD PLACEMENT ON A SURFACE OF THE HEART	11/687,334	3/16/2007
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	60/921,002	3/30/2007
REMOTE SUTURE MANAGEMENT SYSTEM	60/974,051	9/20/2007
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	61/165,828	4/1/2009
METHODS AND DEVICES FOR TREATING ATRIAL FIBRILLATION	61/323,796	4/13/2010
METHODS AND DEVICES FOR PERICARDIAL ACCESS	61/323,801	4/13/2010
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	61/323,816	4/13/2010
METHODS AND DEVICES FOR TREATING ATRIAL FIBRILLATION	13/086,389	4/13/2011
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	61/494,845	6/8/2011
TISSUE LIGATION DEVICES AND METHODS THEREFOR	61/778,251	3/12/2013
TISSUE LIGATION DEVICES AND METHODS THEREFOR	61/821,153	5/8/2013
PERICARDIAL ACCESS DEVICES AND METHODS	61/717,022	10/22/2013
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	61/898,382	10/31/2013
PERICARDIAL ACCESS DEVICES AND METHODS	61/946,663	2/28/2014
TISSUE LIGATION DEVICES AND METHODS THEREFOR	14/272,478	5/7/2014
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	14/530,575	10/31/2014
AIA Transition: DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	14/625,540	2/18/2015
PERICARDIAL ACCESS DEVICES AND METHODS	14/633,068	2/26/2015
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	62/137,738	3/24/2015
TISSUE LIGATION DEVICES AND METHODS THEREFOR	62/137,740	3/24/2015
AIA Transition: METHODS AND DEVICES FOR TREATING ATRIAL FIBRILLATION	14/799,419	7/14/2015
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	14/928,836	10,30,2015
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	15/041,777	2/11/2016
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	62/300,608	2/26/2016
TISSUE LIGATION DEVICES AND METHODS THEREFOR	15/203,652	7/6/2016
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	62/399,228	9/23/2016
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	15/356,521	11/18/2016
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	15/442,216	2/24/2017
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	62/746,453	2/24/2017
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	15/634,962	6/27/2017
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	15/634,982	6/27/2017
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	15/669,637	8/4/2017
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	15/713,376	9/22/2017
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	15/934,144	3/23/2018
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	62/648,827	3/27/2018
TISSUE LIGATION DEVICES AND METHODS THEREFOR	16/149,911	10/2/2018
TISSUE LIGATION DEVICES AND METHODS THEREFOR	16/269,435	2/6/2019
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	16/289,365	2/28/2019

**Australia Patents Issued**

DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE

**Patent No.**

2008233242

**Filing Date**

6/12/2014

DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2008302329	8/21/2014
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	2010232589	3/12/2015
METHODS AND DEVICES FOR PERICARDIAL ACCESS	2011239637	3/26/2015
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	2011241104	2/12/2015
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	2012267914	3/2/2017
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2014202620	8/20/2015
TISSUE LIGATION DEVICES AND METHODS THEREFOR	2014249724	12/21/2017
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	2015200387	3/2/2017
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	2015200980	5/18/2017
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2015210348	2/1/2018

**Austria Patents Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
TISSUE LIGATION DEVICES AND METHODS THEREFORE	2967534	4/25/2018

**Belgium Patents Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	Belgium
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	Belgium

**Canada Patents Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2700261	2/9/2016
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	2757497	4/17/2018

**China Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	ZL201080023899.9	3/4/2015
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	ZL201510045447.5	1/9/2018
METHODS AND DEVICES FOR PERICARDIAL ACCESS	ZL2011800291514	2/17/2016
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	ZL2011800290649	9/16/2015
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	ZL201510512759.2	6/6/2017
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	ZL201280039070.7	12/28/2016
TISSUE LIGATION DEVICES AND METHODS THEREFOR	ZL201480026653.5	7/6/2018

**Czech Republic Patents Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015

**Denmark Patents Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015

<b><u>European Patent Office Patents Issued</u></b>	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	1313406	6/16/2010
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	1682034	11/21/2018
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2214563	4/19/2017
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	2413815	12/12/2018
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	2717791	5/9/2018
TISSUE LIGATION DEVICES AND METHODS THEREFOR	2967534	4/25/2018

<b><u>Germany Patents Issued</u></b>	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	1313406	6/16/2010
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2214563	4/19/2017
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	2717791	5/9/2018
TISSUE LIGATION DEVICES AND METHODS THEREFOR	2967534	4/25/2018
APPARATUS AND METHOD FOR LIGATION OF TISSUE	1682034	11/21/2018
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	2413815	12/12/2018

<b><u>Great Britain Patents Issued</u></b>	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	1313406	6/16/2010
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2214563	4/19/2017
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	2717791	5/9/2018
TISSUE LIGATION DEVICES AND METHODS THEREFOR	2967534	4/25/2018
APPARATUS AND METHOD FOR LIGATION OF TISSUE	1682034	11/21/2018
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	2413815	12/12/2018

<b><u>France Patent Issued</u></b>	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	1313406	6/16/2010
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2214563	4/19/2017
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	2717791	5/9/2018
TISSUE LIGATION DEVICES AND METHODS THEREFOR	2967534	4/25/2018
APPARATUS AND METHOD FOR LIGATION OF TISSUE	1682034	11/21/2018
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	2413815	12/12/2018

<b><u>Hong Kong Patent Issued</u></b>	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
METHODS AND DEVICES FOR PERICARDIAL ACCESS	HK1184736	4/7/2017
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	HK1196932	3/2/2018
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	1139297	5/3/2013
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	1147184	4/27/2018
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	1170403	11/20/2015
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	1183607	1/15/2016
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	1184983	8/26/2016

<b><u>Ireland Patent Issued</u></b>	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
TISSUE LIGATION DEVICES AND METHODS THEREFORE	2967534	4/25/2018
TISSUE LIGATION DEVICES AND CONTROLS THEREFORE	2413815	12/12/2018

<b><u>Israel Patent Issued</u></b>	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	204369	1/31/2015

<b><u>Italy Patent Issued</u></b>	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2214563	4/9/2017
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFORE	2717791	5/9/2018
TISSUE LIGATION DEVICES AND METHODS THEREFORE	2967534	4/25/2018
APPARATUS AND METHOD FOR LIGATION OF TISSUE	1682034	11/21/2018
TISSUE LIGATION DEVICES AND CONTROLS THEREFORE	2413815	12/12/2018

<b><u>Japan Patents Issued</u></b>	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	4671582	1/28/2011
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	5074765	8/31/2012
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	5383649	10/11/2013
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	5612073	9/12/2014
METHODS AND DEVICES FOR PERICARDIAL ACCESS	5735097	4/24/2015
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	5735596	4/24/2015
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	5887315	2/19/2016
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	5918321	4/15/2016
METHODS AND DEVICES FOR PERICARDIAL ACCESS	6046181	11/25/2016
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	6085553	2/3/2017
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	6129893	4/21/2017
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	6192764	8/18/2017
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	6244300	11/17/2017

TISSUE LIGATION DEVICES AND METHODS THEREFOR	6336560	5/11/2018
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**Luxembourg Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015

**Netherlands Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2214563	4/9/2017
TISSUE LIGATION DEVICES AND METHODS THEREFORE	2967534	4/25/2018
TISSUE LIGATION DEVICES AND CONTROLS THEREFORE	2413815	12/12/2018

**Poland Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2214563	4/9/2017

**Portugal Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015

**Slovenia Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013

**Spain Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2214563	4/9/2017
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFORE	2717791	5/9/2018
TISSUE LIGATION DEVICES AND METHODS THEREFORE	2967534	4/25/2018
APPARATUS AND METHOD FOR LIGATION OF TISSUE	1682034	11/21/2018
TISSUE LIGATION DEVICES AND CONTROLS THEREFORE	2413815	12/12/2018

**Sweden Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015

**Switzerland Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015

DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2214563	4/9/2017
TISSUE LIGATION DEVICES AND METHODS THEREFORE	2967534	4/25/2018

**Turkey Patent Issued**

	<b><u>Patent No.</u></b>	<b><u>Filing Date</u></b>
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	2142107	1/9/2013
DEVICES FOR CLOSING THE LEFT ATRIAL APPENDAGE	2574287	4/22/2015

**Foreign Patent Applications**

**Australia Patent Applications**

	<b><u>Application No.</u></b>
METHODS AND DEVICES FOR TREATING ATRIAL FIBRILLATION	2011241103
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	2017201015
TISSUE LIGATION DEVICES AND METHODS THEREFORE	2017272242
PERICARDIAL ACCESS DEVICES AND METHODS	2015222963
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	2016238332
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	2017223996

**Brazil Patent Applications**

	<b><u>Application No.</u></b>
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	PI0808618-4
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	BR112013031390-0
TISSUE LIGATION DEVICES AND METHODS THEREFOR	BR112015019887-2
PERICARDIAL ACCESS DEVICES AND METHODS	BR112016019299-0

**Canada Patent Applications**

	<b><u>Application No.</u></b>
METHODS AND DEVICES FOR TREATING ATRIAL FIBRILLATION	2796267
METHODS AND DEVICES FOR PERICARDIAL ACCESS	2796347
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	2796269
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	2838539
TISSUE LIGATION DEVICES AND METHODS THEREFOR	2902064
PERICARDIAL ACCESS DEVICES AND METHODS	293992
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	2960740
TISSUE LIGATION DEVICES AND CONTROLS THEREFORE	2295931
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	3015804

**European Patent Office Applications**

	<b><u>Application No.</u></b>
METHODS AND APPARATUS FOR TRANSPERICARDIAL LEFT ATRIAL APPENDAGE CLOSURE	10165972.0
DEVICES AND SYSTEMS FOR CLOSING THE LEFT ATRIAL APPENDAGE	15153029.2
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	17166951.8
TISSUE LIGATION DEVICES AND CONTROLS THEREFORE	18211384.5
METHODS AND DEVICES FOR TREATING ATRIAL FIBRILLATION	11769217.8
METHODS AND DEVICES FOR PERICARDIAL ACCESS	11769550.2
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	11769218.6



TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFORE	18171310.8
PERICARDIAL ACCESS DEVICES AND METHODS	13848264.1
TISSUE LIGATION DEVICES AND METHODS THEREFORE	18168824.3
TISSUE LIGATION DEVICES AND METHODS THEREFOR	14794289.0
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	14856823.1
PERICARDIAL ACCESS DEVICES AND METHODS	15755333.0
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	16769738.2
TISSUE LIGATION DEVICES AND METHODS THEREFORE	16769732.5
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	17757372.1
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	17854032.4

**China Patent Applications**

	<b><u>Application No.</u></b>	<b><u>Filing Date</u></b>
TISSUE LIGATION DEVICES AND METHODS THEREFOR	201480032791.4	
PERICARDIAL ACCESS DEVICES AND METHODS	201580019422.6	
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFOR	201611099914.3	
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	201680025786.X	
TISSUE LIGATION DEVICES AND METHODS THEREFORE	201810537475.2	
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	201780020887.2	

**Hong Kong Patent Applications**

	<b><u>Application No.</u></b>	<b><u>Filing Date</u></b>
APPARATUS AND METHOD FOR THE LIGATION OF TISSUE	07100745.1	
DEVICES, SYSTEMS, AND METHODS FOR CLOSING THE LEFT ATRIAL APPENDAGE	16104108.3	
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	18109581.6	
TISSUE LIGATION DEVICES AND CONTROLS THEREFOR	15111591.3	
METHODS AND DEVICES FOR TREATING ATRIAL FIBRILLATION	13109689.2	
TISSUE LIGATION DEVICES AND TENSIONING DEVICES THEREFORE	18100532.5	
TISSUE LIGATION DEVICES AND METHODS THEREFOR	16108149.5	
TISSUE LIGATION DEVICES AND METHODS THEREFOR	16109179.6	
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	18109893.9	

**Israel Patent Application**

	<b><u>Application No.</u></b>
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	261281

**Japan Patent Applications**

	<b><u>Application No.</u></b>
DEVICES AND METHODS FOR REMOTE SUTURE MANAGEMENT	2010-525920
METHODS AND DEVICES FOR ACCESSING AND DELIVERING DEVICES TO A HEART	2015-235340
TISSUE LIGATION DEVICES AND METHODS THEREFORE	2018-88759
PERICARDIAL ACCESS DEVICES AND METHODS	2016-55447
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	2018-545199

**New Zealand Patent Application**

	<b><u>Application No.</u></b>
DEVICES AND METHODS FOR LEFT ATRIAL APPENDAGE CLOSURE	745807

EXHIBIT C

Trademarks

<u>US Trademark Registrations</u>	<u>Registration No.</u>	<u>Registered Date</u>
ENDOCATH	3686539	9/22/2009
FINDRWIRZ	3719562	12/1/2009
LARIAT	4006892	8/2/2011
SENTRHEART	3669798	8/18/2009
SENTRHEART and Design	3664098	8/4/2009

<u>US Trademark Applications</u>	<u>Application No.</u>	<u>Application Date</u>
None		

<u>Country</u>	<u>Trademark Registration</u>	<u>Registration No.</u>	<u>Registered Date</u>
Australia	SENTRHEART	1194082	1/4/2008
Canada	ENDOCATH	TMA791999	3/2/2011
Canada	FINDRWIRZ	TMA792000	3/2/2011
Canada	LARIAT	TMA853738	6/20/2013
Canada	PLACE	TMA865657	11/21/2013
Canada	SENTRHEART	TMA872155	2/26/2014
Canada	SENTRHEART	TMA792001	3/2/2011
European Union	ENDOCATH	008725418	6/2/2010
European Union	FINDRWIRZ	007593941	9/9/2009
European Union	LAARIAT	008712499	6/2/2010
European Union	LARIAT	008743858	6/2/2010
European Union	PLACE	009529579	5/3/2011
European Union	SENTRHEART	006287891	7/17/2008
Japan	PLACE	5464709	1/20/2012
Japan	SENTRHEART	5102266	12/28/2007

<u>Country</u>	<u>Trademark Application</u>	<u>Application No.</u>	<u>Application Date</u>
None			

EXHIBIT D

Mask Works

None.