

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ACORN CARDIOVASCULAR, INC.	12/10/2010
RECEIVING PARTY DATA	
Name:	MARDIL, INC.
Street Address:	505 NORTH HIGHWAY 169
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City:	PLYMOUTH
State/Country:	MINNESOTA
Postal Code:	55441
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15682111
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ATTORNEY DOCKET NUMBER:	30197-0034005
NAME OF SUBMITTER:	SHANNON STADNICK
SIGNATURE:	/Shannon Stadnick/
DATE SIGNED:	01/30/2018
Total Attachments: 10	
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PATENT ASSIGNMENT

This PATENT ASSIGNMENT (the "Assignment"), dated December 10th, 2010 is delivered in accordance with that certain Patent Assignment Agreement dated December 10, 2010 by and between Acorn Cardiovascular, Inc., a Delaware corporation ("Assignor"), located at 601 Campus Drive, St. Paul, MN 55112, and Mardil, Inc., a Delaware corporation ("Assignee") located at 420 Tonkawa Road, Orono, MN 55356.

WHEREAS, Assignor is transferring to Assignee its right, title and interest in and to the patents and patent applications identified on the attached Exhibit A, together with the invention(s) disclosed therein (collectively, the "Patents"); and

WHEREAS, Assignee is desirous of acquiring the entire right, title, and interest in and to the Patents, together with any and all causes of action and rights of recovery for past infringements of the Patents.

NOW, THEREFORE, for good and valuable consideration received by Assignor from Assignee, the sufficiency of which is hereby acknowledged, the parties agree as follows:

1. **Agreement.** Assignor hereby sells, assigns, transfers and conveys unto Assignee the entire right, title and interest (s) in and to the Patents and Assignor's other intellectual property relating to technology, devices and/or systems disclosed in the Patents and/or systems and/or methodologies disclosed in the Patents tested in clinical trials conducted by or on behalf of Assignor, (b) in and to any non-provisional, division, substitution, continuation, continuation-in-part, reissue, reexamination, foreign counterpart, and extension of the intellectual property described in Section I (a) filed hereafter by Assignee, (c) in and to all of Assignor's rights under the International Conventions derived from such intellectual property and all other rights vested in Assignor by virtue of the instruments of assignment and/or by virtue of other instruments pursuant to which Assignor became vested with ownership of such intellectual property, including the right, title, and interest in and to any and all improvements acquired pursuant to the terms of said instruments of assignment, (d) in and to each and every patent, both foreign and domestic, which is granted on any application included in the intellectual property described in Section I(a) or I(b) or that is filed hereafter by Assignee which is a non-provisional, division, substitution, continuation, continuation-in-part of such intellectual property, and in and to each and every reissue, reexamination, or extension of such intellectual property, (e) in and to all claims, causes of action, and other rights with respect to such intellectual property, and (f) in and to confidential information, trade secrets and company know-how associated with intellectual property (collectively, the "Intellectual Property").

2. Assignor hereby covenants and agrees to cooperate with Assignee to promptly execute all papers prepared at the expense of Assignee which are deemed necessary or desirable by Assignee to perfect in it the right, title and interest to the Intellectual Property herein conveyed and to obtain and maintain the patents.

3. Assignor hereby authorizes and shall request the Commissioner of Patents and Trademarks to issue all patents which may be granted upon any of the applications included in the Patents as defined above, to Assignee, as the assignee of the entire interest therein.

Signature Page -- Patent Assignment Agreement

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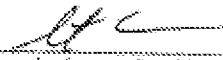
4. The terms, covenants and provisions of this Agreement shall inure to the benefit of Assignee, its successors, assigns, and/or legal representatives, and shall be binding upon Assignor, its successors, assigns and/or other legal representatives.

5. This Agreement shall be governed by the Laws of the State of Minnesota without regard to conflicts of laws principles.

6. This Agreement may be executed in one or more counterparts, all of which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have executed this Patent Assignment as of the date first above written.

ACORN CARDIOVASCULAR, INC.,
a Delaware corporation



Steven Anderson, President

MARDH, INC.,
a Delaware corporation



James F. Buck, President

Exhibit A
to
Patent Assignment

[REDACTED]				

[See attached.]

Accorn Cardiovascular, Inc.
 Foreign Granted Patents
 December 9, 2010

	Country	Grant Date	Patent Number	Title
1	Australia	12/07/2000	723480	CARDIAC REINFORCEMENT DEVICE
2	Canada	07/13/2004	2,267,104	HEART VOLUME LIMITING DEVICE
3	Germany	12/08/2004	DE 667 31 890	CARDIAC REINFORCEMENT DEVICE
4	France	12/08/2004	0 830 856	CARDIAC REINFORCEMENT DEVICE
5	Germany	11/10/2004	DE 69921826.8	CARDIAC DISEASE TREATMENT AND DEVICE
6	France	11/10/2004	1 102 587	CARDIAC DISEASE TREATMENT AND DEVICE
7	Italy	11/10/2004	1 102 587	CARDIAC DISEASE TREATMENT AND DEVICE
8	Germany	09/15/2004	598 11 958.6	BAG FOR AT LEAST PARTIALLY ENVELOPING A HEART
9	United Kingdom	03/19/2008	1 289 447	CARDIAC DISEASE TREATMENT AND DEVICE
10	Germany	03/19/2008	1 289 447	CARDIAC DISEASE TREATMENT AND DEVICE
11	Italy	03/19/2008	1 289 447	CARDIAC DISEASE TREATMENT AND DEVICE

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Acorn Cardiovascular, Inc.
Foreign Granted Patents
December 9, 2010

	Country	Grant Date	Patent Number	Title
12	France	03/18/2009	1 289 447	CARDIAC DISEASE TREATMENT AND DEVICE

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Acorn Cardiovascular, Inc.
 International Pending Patent Applications
 December 9, 2010

	Country	Application Number	Application Date	Title
1	European Patent Convention	07609118.8	05/18/2007	PERICARDIUM MANAGEMENT TOOL AND METHOD FOR INTRA-PERICARDIAL SURGICAL PROCEDURES
2	Canada	2,654,372	05/18/2007	PERICARDIUM MANAGEMENT TOOL AND METHOD FOR INTRA-PERICARDIAL SURGICAL PROCEDURES
3	European Patent Convention	07799122.2	06/28/2007	LOW FRICTION DELIVERY TOOL AND METHOD FOR A CARDIAC SUPPORT DEVICE
4	Canada	2,656,495	06/28/2007	LOW FRICTION DELIVERY TOOL AND METHOD FOR A CARDIAC SUPPORT DEVICE
5	Patent Cooperation Treaty	PCT/US2010/026830	03/26/2010	INTRA-OPERATIVE HEART SIZE MEASURING TOOL

Acorn Cardiovascular, Inc.
 U.S. Issued Patents
 December 8, 2010

	U.S. Patent Number	Title	Issue Date
1	5,702,343	CARDIAC REINFORCEMENT DEVICE	December 30, 1997
2	6,077,216	CARDIAC REINFORCEMENT DEVICE	June 20, 2000
3	6,085,754	CARDIAC DISEASE TREATMENT METHOD	July 11, 2000
4	6,123,662	CARDIAC DISEASE TREATMENT AND DEVICE	September 26, 2000
5	6,126,590	CARDIAC REINFORCEMENT DEVICE	October 3, 2000
6	6,155,972	CARDIAC CONSTRAINT JACKET CONSTRUCTION	December 5, 2000
7	6,165,121	CARDIAC REINFORCEMENT DEVICE	December 26, 2000
8	6,165,122	CARDIAC REINFORCEMENT DEVICE	December 26, 2000
9	6,169,922	DEFIBRILLATING CARDIAC CONSTRAINT	January 2, 2001
10	6,174,278	CARDIAC CONSTRAINT WITH TENSION INDICATOR	January 16, 2001
11	6,179,791	DEVICE FOR HEART MEASUREMENT	January 30, 2001
12	6,183,646	CARDIAC CONSTRAINT WITH DRAW STRING TENSIONING	February 27, 2001
13	6,230,714	CARDIAC CONSTRAINT WITH PRIOR VENUS OCCLUSION	May 15, 2001
14	6,241,654	CARDIAC REINFORCEMENT DEVICES AND METHODS	June 5, 2001
15	6,293,906	DELIVERY OF CARDIAC CONSTRAINT JACKET	September 25, 2001
16	6,370,429	DEFIBRILLATING CARDIAC CONSTRAINT	April 9, 2002
17	6,375,808	CARDIAC REINFORCEMENT DEVICE	April 23, 2002
18	6,416,459	BAG FOR AT LEAST PARTIALLY ENVELOPING A HEART	July 9, 2002
19	6,425,858	CARDIAC DISEASE TREATMENT AND DEVICE	July 30, 2002
20	6,482,146	CARDIAC DISEASE TREATMENT AND DEVICE	November 18, 2002
21	6,537,203	CARDIAC DISEASE TREATMENT AND DEVICE	March 25, 2003
22	6,544,166	CARDIAC REINFORCEMENT DEVICE	April 8, 2003
23	6,584,094	CARDIAC DISEASE TREATMENT AND DEVICE	May 13, 2003

Acorn Cardiovascular, Inc.
 U.S. Issued Patents
 December 8, 2010

	U.S. Patent Number	Title	Issue Date
24	6,567,699	DEFIBRILLATING CARDIAC CONSTRAINT	May 20, 2003
25	6,572,533	CARDIAC DISEASE TREATMENT AND DEVICE	June 3, 2003
26	6,575,921	DEVICE FOR HEART MEASUREMENT	June 10, 2003
27	6,579,226	DELIVERY OF CARDIAC CONSTRAINT JACKET	June 17, 2003
28	6,582,355	CARDIAC DISEASE TREATMENT METHOD	June 24, 2003
29	6,587,734	CARDIO THERAPEUTIC HEART SACK	July 1, 2003
30	6,645,139	BAG FOR AT LEAST PARTIALLY ENVELOPING A HEART	November 11, 2003
31	6,673,009	ADJUSTMENT CLAMP	January 6, 2004
32	6,682,478	CARDIAC DISEASE TREATMENT AND DEVICE	January 27, 2004
33	6,682,475	TENSION INDICATOR FOR CARDIAC SUPPORT DEVICE AND METHOD THEREFORE	January 27, 2004
34	6,689,048	DELIVERY OF CARDIAC CONSTRAINT JACKET	February 10, 2004
35	6,730,018	CARDIAC DISEASE TREATMENT AND DEVICE	May 4, 2004
36	6,755,779	APPARATUS AND METHOD FOR DELIVERY OF CARDIAC CONSTRAINT JACKET	June 29, 2004
37	6,878,867	CARDIO THERAPEUTIC HEART SACK	April 5, 2005
38	6,881,195	DELIVERY OF CARDIAC CONSTRAINT JACKET	April 19, 2005
39	6,893,362	CARDIAC REINFORCEMENT DEVICE	May 17, 2005
40	6,896,652	CARDIAC DISEASE TREATMENT AND DEVICE	May 24, 2005
41	6,902,522	CARDIAC DISEASE TREATMENT AND DEVICE	June 7, 2005
42	6,902,524	CARDIAC DISEASE TREATMENT AND DEVICE	June 7, 2005
43	6,908,428	CARDIAC DISEASE TREATMENT AND DEVICE	June 21, 2005
44	6,951,534	CARDIAC SUPPORT DEVICE	October 4, 2005
45	6,997,865	CARDIAC SUPPORT DEVICE WITH ANTI-FIBROSIS LINING	February 14, 2006
46	7,022,084	CARDIAC SUPPORT WITH CONTROLLED VENTRICULAR PRESSURE	April 4, 2006

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Acorn Cardiovascular, Inc.
 U.S. Issued Patents
 December 8, 2010

U.S. Patent Number	Title	Issue Date
47 7,025,719	METALLIC CARDIAC SUPPORT DEVICE	April 11, 2006
48 7,153,258	CARDIAC SUPPORT DEVICE WITH ANTI-FIBROSIS COATING	December 26, 2006
49 7,163,507	CARDIAC REINFORCEMENT DEVICE	January 16, 2007
50 7,166,071	CARDIAC REINFORCEMENT DEVICE	January 23, 2007
51 7,214,181	SEPTUM ATTACHED VENTRICULAR SUPPORT APPARATUS AND METHOD FOR APPLYING CARDIAC SUPPORT DEVICE	May 8, 2007
52 7,235,042	CARDIAC DISEASE TREATMENT AND DEVICE	June 26, 2007
53 7,252,632	CARDIAC REINFORCEMENT DEVICE	August 7, 2007
54 7,255,874	CARDIAC REINFORCEMENT DEVICE	August 14, 2007
55 7,261,664	CARDIAC REINFORCEMENT DEVICE	August 26, 2007
56 7,276,664	SEAM CLOSURE DEVICE AND METHODS	October 9, 2007
57 7,287,164	CARDIAC DISEASE TREATMENT AND DEVICE	November 20, 2007
58 7,328,174	CARDIAC REINFORCEMENT DEVICE	February 6, 2008
59 7,351,200	DELIVERY OF CARDIAC CONSTRAINT JACKET	April 1, 2008
60 7,419,468	CARDIAC SUPPORT DEVICE WITH ANTI-FIBROSIS COATING	September 2, 2008
61 7,575,547	CARDIAC SUPPORT DEVICE WITH DIFFERENTIAL EXPANSION	August 18, 2008
62 7,578,784	CARDIAC WALL TENSION RELIEF DEVICE AND METHOD	August 25, 2008
63 7,616,384	SECTIONAL CARDIAC SUPPORT DEVICE AND METHOD OF DELIVERY	November 17, 2008
64 7,641,608	CARDIAC SUPPORT WITH METALLIC STRUCTURE	January 5, 2010
65 7,651,461	CARDIAC SUPPORT DEVICE DELIVERY TOOL WITH RELEASE MECHANISM	January 26, 2010
66 7,651,482	DELIVERY TOOL FOR CARDIAC SUPPORT DEVICE	January 26, 2010
67 7,727,142	DELIVERY OF CARDIAC CONSTRAINT JACKET	June 1, 2010
68 7,819,797		October 26, 2010

Acorn Cardiovascular, Inc.
 U.S. Pending Patent Applications
 December 8, 2010

Application Number	Application Date	Title
1 11/668,930	01/30/2007	CARDIAC DISEASE TREATMENT AND DEVICE
2 12/142,881	06/20/2008	PERICARDIAL SPACE IMAGING FOR CARDIAC SUPPORT DEVICE IMPLANTATION
3 12/333,045	12/11/2008	LOW FRICTION DELIVERY TOOL FOR A CARDIAC SUPPORT DEVICE
4 12/633,434	12/08/2009	CARDIAC DISEASE TREATMENT AND DEVICE
5 12/638,659	12/15/2009	CARDIAC SUPPORT DEVICE DELIVERY TOOL WITH RELEASE MECHANISM
6 12/701,302	02/05/2010	SELF-ADJUSTING ATTACHMENT STRUCTURE FOR A CARDIAC SUPPORT DEVICE
7 12/715,931	03/02/2010	PERICARDIUM MANAGEMENT METHOD FOR INTRA-PERICARDIAL SURGICAL PROCEDURES
8 12/719,553	03/08/2010	CARDIAC SUPPORT DEVICE WITH DIFFERENTIAL COMPLIANCE
9 PCT/US2010/028930	03/26/2010	INTRA-OPERATIVE HEART SIZE MEASURING TOOL
10 12/752,614	04/01/2010	COMPLIANT CARDIAC SUPPORT DEVICE
11 12/784,508	04/21/2010	CARDIAC SUPPORT DEVICE DELIVERY TOOL WITH INDEPENDENTLY MOVABLE ARMS
12 12/787,302	04/28/2010	CARDIOMYOPATHY TREATMENT DEVICE WITH ELECTRODE THERAPY
13 12/824,925	08/28/2010	CARDIAC WALL TENSION RELIEF WITH CELL LOSS MANAGEMENT
14 12/830,965	07/06/2010	CARDIAC SUPPORT DEVICE
15 12/806,846	08/18/2010	SEPTUM ATTACHED VENTRICULAR SUPPORT
16 12/807,848	09/15/2010	DELIVERY OF CARDIAC CONSTRAINT JACKET

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