

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

EPAS ID: PAT5916544

<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>
RADIANT MEDICAL, INC.	04/30/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HORIZON TECHNOLOGY FUNDING COMPANY LLC
<b>Street Address:</b>	76 BATTERSON PARK ROAD
<b>City:</b>	FARMINGTON
<b>State/Country:</b>	CONNECTICUT
<b>Postal Code:</b>	06032
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12897637
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<i>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.</i>	
<b>Phone:</b>	(617) 368-2135
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	STEVEN J. PETKOVSEK
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	40200-0391002
<b>NAME OF SUBMITTER:</b>	LAUREN COLICCHIO
<b>SIGNATURE:</b>	/Lauren Colicchio/
<b>DATE SIGNED:</b>	01/17/2020
<b>Total Attachments: 8</b>	
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05-23-2007



OFFICE OF PROSECUTION

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To the Director of the U.S. Patent and

Documents or the new address(es) below.

5.21.07

**1. Name of conveying party(ies)**

Radiant Medical, Inc.

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: HORIZON TECHNOLOGY FUNDING COMPANY LLC

Internal Address: \_\_\_\_\_

Street Address: 76 Batterson Park Road

City: Farmington

State: CT

Country: U.S.A. Zip: 06032

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) April 30, 2007

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

**4. Application or patent number(s):**

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

See attached

See attached

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: John C. Bombara

Internal Address: Horizon Technology Finance, LLC

Street Address: 76 Batterson Park

City: Farmington

State: CT Zip: 06032

Phone Number: 860-676-8657

Fax Number: 860-676-8655

Email Address: jay@horizontechfinance.com

**6. Total number of applications and patents involved:** 65

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 2,600.00**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**

May 15, 2007

Date

05/22/2007 DBYRNE 00000024 5180364

Signature

01 FC:8021 2600.00 John C. Bombara

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

SCHEDULE 1-A TO GRANT OF SECURITY INTEREST  
PATENTS

No.	U.S Patent	Inventor, Title	Filed	Issued
1.	5,180,364	Ginsburg, Valved Self-Perfusing Catheter	07/03/91	01/19/93
2.	5,486,208	Ginsburg, Method and Apparatus for Controlling a Patient's Body Temperature by in situ Blood Temperature Modification	10/18/94	01/23/96
3.	5,837,003	Ginsburg, Method and Apparatus for Controlling a Patient's Body Temperature by in situ Blood Temperature Modification	01/11/96	11/17/98
4.	5,879,329	Ginsburg, Infusion Systems and Methods for Introducing Fluids into the Body within a Desired Temperature Range	01/22/97	03/09/99
5.	5,989,238	Ginsburg, Infusion Systems and Methods for Introducing Fluids into the Body within a Desired Temperature Range	11/06/98	11/23/99
6.	6,033,383	Ginsburg, Temperature Regulating Catheter and Methods	12/19/96	03/07/00
7.	6,110,168	Ginsburg, Method and Apparatus for Controlling a Patient's Body Temperature by in situ Blood Temperature Modification	06/19/98	08/29/00
8.	6,149,673	Ginsburg, Method for Controlling a Patient's Body Temperature by in situ Blood Temperature Modification	08/07/98	11/21/00
9.	6,149,676	Ginsburg, Catheter System for Controlling a Patient's Body Temperature by in situ Blood Temperature Modification	08/07/98	11/21/00
10.	6,231,594	Dae, Method of Controlling Body Temperature while Reducing Shivering	08/11/99	05/15/01
11.	6,264,679	Keller et al., Heat Exchange Catheter with Discrete Heat Exchange Elements	08/20/99	07/24/01
12.	6,306,161	Ginsburg, Catheter System for Controlling a Patient's Body Temperature by in situ Blood Temperature Modification	08/07/98	10/23/01
13.	6,428,563	Keller, Heat Exchange Catheter with Improved Insulated Region	01/21/00	08/06/02

No.	U.S Patent	Inventor, Title	Filed	Issued
14.	6,436,131	Ginsburg, Heat Exchange Catheter Having Heat Exchange Surface Formed of Metal Foil	03/09/00	08/20/02
15.	6,497,721	Ginsburg et al., Method and Apparatus for Regional and Whole Body Temperature Modification	12/15/00	12/24/02
16.	6,527,798	Ginsburg et al., Method and Apparatus for Regional and Whole Body Temperature Modification	12/15/00	03/04/03
17.	6,544,282	Dae et al., Inhibition of Platelet Activation, Aggregation and/or Adhesion by Hypothermia	02/21/01	04/08/03
18.	6,572,638	Dae et al., Method of Controlling Body Temperature while Inhibiting Thermoregulatory Responses	04/27/01	06/03/03
19.	6,582,457	Dae et al., Method of Controlling Body Temperature while Reducing Shivering	02/15/01	06/24/03
20.	6,607,517	Dae et al., Method of Inotropic Treatment of Heart Disease using Hypothermia	08/24/01	08/19/03
21.	6,610,083	Keller et al., Multiple Lumen Heat Exchange Catheters	02/06/01	08/26/03
22.	6,620,130	Ginsburg, Infusion Systems and Methods for Introducing Fluids into the Body within a Desired Temperature Range	11/22/99	09/16/03
23.	6,620,188	Ginsburg et al., Method and Apparatus for Regional and Whole Body Temp Modification	08/24/98	09/16/03
24.	6,620,189	Machold et al., Method and System for Control of a Patient's Temperature by Way of a Transluminally Insertable Heat Exchange Catheter	11/06/00	09/16/03
25.	6,635,076	Ginsburg, System for Controlling Body Temperature of a Patient	12/04/01	10/21/03
26.	6,656,209	Ginsburg, Catheter System for Controlling a Patient's Body Temperature by in situ Blood Temperature Modification	08/30/01	12/02/03
27.	6,673,098	Machold et al., Disposable Cassette for Intravascular Heat Exchange Catheter	05/02/00	01/06/04

No.	U.S Patent	Inventor, Title	Filed	Issued
28.	6,679,906	Hammack et al., Catheter System with On-Board Temperature Probe	07/13/01	01/20/04
29.	6,685,733	Dae et al., Method and Systems for Reducing Substance-Induced Renal Damage	04/10/02	02/03/04
30.	6,692,519	Hayes, Use of Endovascular Hypothermia in Organ and/or Tissue Transplantation	08/06/01	02/17/04
31.	6,695,874	Machold et al., Method and System for Control of a Patient's Body Temperature by Way of Transluminally Insertable Heat Exchange Catheter	02/01/02	02/24/04
32.	6,702,783	Dae et al., Endovascular Heat- and Gas-Exchange Catheter Device and Related Methods.	02/05/02	03/09/04
33.	6,702,839	Dae et al., Method of Controlling Body Temperature while Reducing Shivering	05/02/02	03/09/04
34.	6,702,840	Keller et al., Heat Exchange Catheter with Discrete Heat Exchange Elements	07/18/01	03/09/04
35.	6,752,786	Callister, Moving Heat Exchange Catheter System	05/31/01	06/22/04
36.	6,800,068	Dae et al., Intra-Aortic Balloon Counterpulsation with Concurrent Hypothermia	10/26/01	10/05/04
37.	6,811,551	Dae et al., Method for Reducing Myocardial Infarct by Application of Intravascular Hypothermia	12/12/00	11/01/04
38.	6,849,083	Ginsburg, Method and Apparatus for Controlling a Patient's Body Temperature by in situ Blood Temperature Modification	08/19/03	02/01/05
39.	6,866,638	Dae, et al., Temperature Sensing System with Retrograde Sensor	08/12/02	03/15/05
40.	6,887,263	Bleam et al., Valved Connector Assembly and Sterility Barriers for Heat Exchange Catheters and Other Closed Loop Catheters	10/18/02	05/03/05
41.	6,890,347	Machold et al., Disposable Cassette for Intravascular Heat Exchange Catheter	07/25/03	05/10/05

No.	U.S Patent	Inventor, Title	Filed	Issued
42.	6,997,942	Machold et al., Disposable Cassette for Intravascular Heat Exchange Catheter	01/05/04	02/14/06
43.	7,008,444	Dae et al., Method of Controlling Body Temperature while Reducing Shivering	10/01/03	03/07/06
44.	7,077,825	Stull, Method for Gastric Cooling Using Balloon Catheter	01/16/03	07/18/06
45.	7,087,026	Callister, Devices and Methods for Measuring Blood Flow Rate or Cardiac Output and for Heating or Cooling the Body	03/21/03	08/08/06
46.	7,172,586	Dae, et al., Method of Inotropic Treatment of Circulatory Failure Using Hypothermia	06/16/03	02/06/07
47.	7,175,649	Machold, et al., Method and System for Control of a Patient's Body Temperature by Way of Transluminally Insertable Heat Exchange Catheter	08/20/03	02/13/07
48.	7,186,222	Callister, et al., Vascular Introducer with Temperature Monitoring Probe and Systems for Endovascular Temperature Control	09/10/02	03/06/07

SCHEDULE 1-B TO GRANT OF SECURITY INTEREST

PATENT APPLICATIONS

Ref	Application	Publication Number	Inventor, Title	Date Filed
1.	10/442,483	20030195597	Keller et al., Multiple Lumen Heat Exchange Catheters	05/21/03
2.	10/626,007	20040147987	Ginsburg, Methods and Apparatus for Regional & Whole Body Temperature Modification	07/24/03
3.	10/645,263	20040050154	Machold et al., Method and System for Control of a Patient's Body Temperature by way of a Transluminally Insertable Heat Exchange Catheter.	08/20/03
4.	10/525,625	20060122673	Callister et al., System and Method for Controlling Core Body Temperature	09/12/03
5.	10/730,861	20040116988	Hammack et al., Catheter System with On-Board Temperature Probe	12/03/03
6.	10/738,066	20040133256	Callister, Heat Transfer Catheter with Elastic Fluid Lumens	12/17/03
7.	10/855,434	20040225342	Callister, Moving Heat Exchange Catheter System	05/26/04
8.	10/933,979	20050027290	Dae et al., Method for Reducing Myocardial Infarct by Application of Intravascular Hypothermia	09/02/04
9.	10/933,970	20050043579	Dae et al., Intra-Aortic Balloon Counterpulsation with Concurrent Hypothermia	09/02/04
10.	11/061,803	20050143798	Bleam, et al., Valved Connector Assembly and Sterility Barrier	02/17/05
11.	11/044,997	20060030910	Ginsburg, Method and Apparatus for Controlling a Patient's Body Temperature by In Situ Blood Temperature Modification	02/26/05



Ref	Application	Publication Number	Inventor, Title	Date Filed
12.	11/080,128	20050159673	Dae et al., Temperature Sensing System with Retrograde Sensor	3/14/05
13.	11/125,604	20050209658	Machold et al., Disposable Cassette for Intravenous Heat Exchange Catheter	05/09/05
14.	11/479,961	20070043409	Brian et al., Devices, System and Methods for Rapid Endovascular Cooling	06/29/05
15.	11/413,564	20060293734	Scott et al., Apparatus and Method for Providing Enhanced Heat Transfer from a Body Portion	06/29/05
16.	11/474,590	20060253095	Stull, Method for Gastric Cooling using Balloon Catheter	06/26/06
17.	11/501,442	20070038277	Dae, Inhibition of Platelet Activation, Aggregation and/or Adhesion by Hypothermia	08/08/06

GRANT OF SECURITY INTEREST  
PATENTS

THIS GRANT OF SECURITY INTEREST, dated as of April 30, 2007, is executed by RADIANT MEDICAL, INC., a California corporation with an address of 250 Chesapeake Drive, Redwood City, California 94063 ("Debtor"), in favor of HORIZON TECHNOLOGY FUNDING COMPANY LLC, a Delaware limited liability company with an address of 76 Batterson Park Road, Farmington, Connecticut 06032 ("Secured Party").

A. Pursuant to a certain Venture Loan and Security Agreement, dated on or about the date hereof (the "Agreement") by and between Debtor and the Secured Party, the Secured Party has agreed to extend credit to Debtor upon the terms and subject to the conditions set forth therein;

B. Debtor owns the patents and/or applications for patents, more particularly described on Schedules 1-A and 1-B annexed hereto as part hereof (collectively, the "Patents");

C. Pursuant to the Agreement, Debtor has granted to Secured Party a security interest in all right, title and interest of Debtor in and to the Patents, together with any reissue, continuation, continuation-in-part or extension thereof, and all proceeds thereof, including any and all causes of action which may exist by reason of infringement thereof for the full term of the Patents (the "Collateral"), to secure the prompt payment, performance and observance of the Obligations (as defined in the Agreement);

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Debtor does hereby further grant to Secured Party a security interest in the Collateral to secure the prompt payment, performance and observance of the Obligations.

Debtor does hereby further acknowledge and affirm that the rights and remedies of Secured Party with respect to the security interest in the Collateral granted hereby are more fully set forth in the Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein.

IN WITNESS WHEREOF, Debtor has caused this instrument to be executed as of the day and year first written above.

RADIANT MEDICAL, INC.

By: Kenneth M. Hayes Jr.  
Name: Kenneth G. Hayes, Jr.  
Title: President & CEO