

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

EPAS ID: PAT4289972

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HOWARD ROOT	03/25/2015
JOHN BRIDGEMAN	03/25/2015
STEVE MICHAEL	03/25/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VASCULAR SOLUTIONS, INC.
<b>Street Address:</b>	6464 SYCAMORE COURT NORTH
<b>City:</b>	MINNEAPOLIS
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55369
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15441352
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(763)656-4288
<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>	763-656-4328
<b>Email:</b>	ip@vasc.com
<b>Correspondent Name:</b>	VASCULAR SOLUTIONS, INC.
<b>Address Line 1:</b>	C/O INTELLECTUAL PROPERTY DEPARTMENT
<b>Address Line 2:</b>	6464 SYCAMORE COURT NORTH
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55369
<b>ATTORNEY DOCKET NUMBER:</b>	VSI-1032-US02
<b>NAME OF SUBMITTER:</b>	JULIE WANG
<b>SIGNATURE:</b>	/Julie Wang/
<b>DATE SIGNED:</b>	02/24/2017
<b>Total Attachments: 5</b>	
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**ASSIGNMENT**

WHEREAS, Howard Root, John Bridgeman, and Steve Michael (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on October 9, 2014, which application was assigned U.S. patent application serial number 62/061,781, and which is titled CATHETER.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Vascular Solutions, Inc. (the "Assignee"), having a place of business at 6464 Sycamore Court North, Minneapolis, MN 55369, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application(s);

such application(s), and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application(s) in relation to subject matter based in whole or in part on the above-identified patent application(s) and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application(s), including, without limitation, the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application(s) and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 128550 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application(s), any of the foregoing or any of the below, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, review, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation, shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

**Assignor:**

(Signature):

  
\_\_\_\_\_

Name: Howard Root

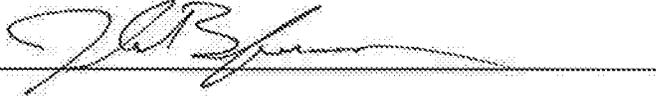
City/State: Excelsior, MN

Date:

March 25, 2015

**Assignor:**

(Signature):



Name: John Bridgeman

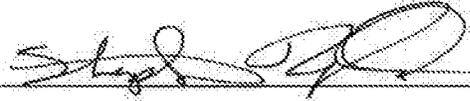
City/State: Minneapolis, MN

Date:

March 25, 2015

**Assignor:**

(Signature):



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Name: Steve Michael

City/State: New Hope, MN

Date:

3/25/15