

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Lakshmikumar Pillai</td> <td>10/12/2010</td> </tr> <tr> <td>Paul A. LaDuca</td> <td>10/13/2010</td> </tr> <tr> <td>Frederich L. Alavar</td> <td>10/26/2010</td> </tr> <tr> <td>Robert LaDuca</td> <td>10/26/2010</td> </tr> </tbody> </table>		Name	Execution Date	Lakshmikumar Pillai	10/12/2010	Paul A. LaDuca	10/13/2010	Frederich L. Alavar	10/26/2010	Robert LaDuca	10/26/2010
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Vascular Access Technologies, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>650 Page Mill Road</td> </tr> <tr> <td>City:</td> <td>Palo Alto</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94304</td> </tr> </table>		Name:	Vascular Access Technologies, Inc.	Street Address:	650 Page Mill Road	City:	Palo Alto	State/Country:	CALIFORNIA	Postal Code:	94304
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13782931</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13782931						
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CORRESPONDENCE DATA											
<p>Fax Number: 6502127562 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 650-212-1700 Email: info@shayglenn.com</p> <p>Correspondent Name: James R. Shay Address Line 1: Shay Glenn LLP Address Line 2: 2755 Campus Drive, Suite 210 Address Line 4: SAN MATEO, CALIFORNIA 94403</p>											
ATTORNEY DOCKET NUMBER:	10949-701.400										
NAME OF SUBMITTER:	James R. Shay, Reg. 32,062										
Signature:	/James R. Shay/										

PATENT

Date:

09/13/2013

Total Attachments: 4

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RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

TO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name of conveying party(ies): Execution Dates:

- (1) Lakshmikumar **PILLAI** (10/12/2010);
 (2) Paul A. **LaDUCA** (10/13/2010);
 (3) Frederick L. **ALAVAR** (10/26/2010);
 (4) Robert **LaDUCA** (10/26/2010)

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

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

Name: **VASCULAR ACCESS
TECHNOLOGIES, INC.
650 Page Mill Road
Palo Alto, CA 94304**

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Name and address of receiving party(ies):

Name:

Street Address:

City: State:

Zip:

Country:

Additional name(s) & address(es) attached?

☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) – **13/782,931**

“Transvascular Retrograde Access Devices”

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

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

**James R. Shay
Shay Glenn LLP
2755 Campus Drive, Suite 210
San Mateo, CA 94403**

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- ☐ A check is enclosed that includes the total fee.
☒ The Fee of \$40 is paid by EFS.

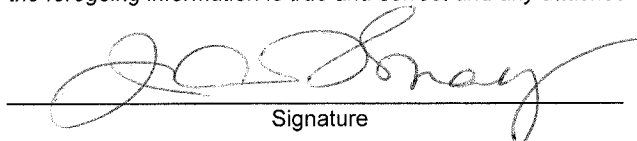
DO NOT USE THIS SPACE

8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James R. Shay, Reg. No. 32,062

Name of Person Signing


Signature

September 13, 2013

Date

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

ASSIGNMENT OF PATENT APPLICATION

Docket Number: 10949-701.200

This Assignment of Patent Application is between **Lakshmikumar PILLAI** of Morgantown, WV; **Paul A. LaDUCA** of Little Elm, TX; **Frederich L. ALAVAR** of San Jose, CA; and **Robert LaDUCA** of Santa Cruz, CA (hereinafter referred to as "Inventors") and **VASCULAR ACCESS TECHNOLOGIES, INC.**, a corporation of the State of Delaware, having a place of business at 650 Page Mill Road, Palo Alto, CA 94304 (hereinafter termed "Assignee").

WHEREAS Inventors have invented certain new and useful improvements in:

**"METHODS OF TRANSVASCULAR RETROGRADE ACCESS
PLACEMENT AND DEVICES FOR FACILITATING THE PLACEMENT"**

for which an application for a United States Patent was filed on August 23, 2010, as Application No. 12/861,716.

WHEREAS, Assignee is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of the said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contest, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor, his heirs, legal representatives and assigns.

Docket Number: 10949-701.200

4. Said Inventors hereby warrant and represent that he/she has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee:

Dated: 10/12/10


Lakshmikumar PILLAI

Dated: _____

Paul A. LaDUCA

Dated: _____

Frederich L. ALAVAR

Dated: _____

Robert LaDUCA

4. Said Inventors hereby warrant and represent that he/she has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee:

Dated: _____

Lakshnikumar PILLAI

Dated: 10/13/10

Paul A. LaDUCA

Dated: 10/26/10

Frederich L. ALAVAR

Dated: 10/26/10

Robert LaDUCA