

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>Howard Root</td><td>12/02/2011</td></tr><tr><td>James Murto</td><td>12/02/2011</td></tr><tr><td>Stephen Penegor</td><td>12/02/2011</td></tr><tr><td>Gregg Sutton</td><td>12/02/2011</td></tr></tbody></table>		Name	Execution Date	Howard Root	12/02/2011	James Murto	12/02/2011	Stephen Penegor	12/02/2011	Gregg Sutton	12/02/2011
Name	Execution Date										
Howard Root	12/02/2011										
James Murto	12/02/2011										
Stephen Penegor	12/02/2011										
Gregg Sutton	12/02/2011										
RECEIVING PARTY DATA											
Name:	Vascular Solutions, Inc.										
Street Address:	6464 Sycamore Court										
City:	Minneapolis										
State/Country:	MINNESOTA										
Postal Code:	55368										
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>13310503</td></tr></tbody></table>		Property Type	Number	Application Number:	13310503						
Property Type	Number										
Application Number:	13310503										
CORRESPONDENCE DATA											
Fax Number:	(612)339-3061										
Phone:	612.373.6900										
Email:	request@slwip.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	SCHWEGMAN, LUNDBERG & WOESSNER, P.A.										
Address Line 1:	P.O. BOX 2938										
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402										
ATTORNEY DOCKET NUMBER:	3195.014US1										
NAME OF SUBMITTER:	Gregory W. Smock										
Total Attachments: 7											

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PATENT
REEL: 027318 FRAME: 0745

CH \$40.00 13310503

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RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 3195.014US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Howard Root, James Murto, Stephen Penegor, Gregg Sutton

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

[] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other

Execution Date: December 2, 2011, December 2, 2011,
December 2, 2011, December 2, 2011

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

Name: Vascular Solutions, Inc.

Street Address: 6464 Sycamore Court

City: Minneapolis State: MN Zip: 55368
Country: United States of America

Additional name(s) & address(es) attached? [] Yes [X] 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:
December 2, 2011, December 2, 2011, December 2, 2011, December 2, 2011

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. Unknown, filed Herewith

Additional numbers attached? [] Yes [X] No

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

Name: Gregory W. Smock

Address:

Schwegman, Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 1

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

[] Enclosed

[X] Authorized to be charged to deposit account
19-0743

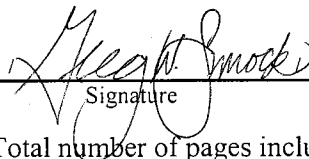
8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

DO NOT USE THIS SPACE

9. 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.

Gregory W. Smock/Reg. No. 60,208
Name of Person Signing


Signature

December 2, 2011
Date

Total number of pages including cover sheet: 7

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
REEL: 027318 FRAME: 0747

ASSIGNMENT

WHEREAS, We, Howard Root, whose mailing address is 6464 Sycamore Court, Minneapolis, MN 55368, and James Murto, whose mailing address is 6464 Sycamore Court, Minneapolis, MN 55368, and Steven Penegor, whose mailing address is 6464 Sycamore Court, Minneapolis, MN 55368, and Gregg Sutton, residing at 16917 73rd Place North, Maple Grove, MN 55311, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent entitled ELONGATED EXPANDABLE MEMBER FOR OCCLUDING VARICOSE VEINS;

WHEREAS, We hereby authorize and request the attorneys, representing Vascular Solutions, Inc. on this application, at Schwegman, Lundberg & Woessner, P.A., located at 121 South Eighth Street, Suite 1600, Minneapolis, MN 55402, to insert here in parentheses (Ser. No. _____; Filing Date: _____) the filing date and application number of said application when known.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to Vascular Solutions, Inc. (the "Assignee"), a corporation of the State of MN, having a place of business at 6464 Sycamore Court, Minneapolis, MN 55368, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

Additional Application Information

No Provisional claim for priority is being made at this time.

No U.S. Non-Provisional claim for priority is being made at this time.

No International or foreign claim for priority is being made at this time.

ASSIGNMENT

Docket No: 3195.014US1

Assignors: Howard Root et al.

Title: ELONGATED EXPANDABLE MEMBER FOR OCCLUDING VARICOSE VEINS

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

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will 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 will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

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:

ASSIGNMENT

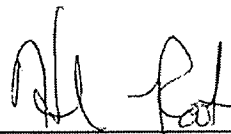
Docket No: 3195.014US1

Assignors: Howard Root et al.

Title: ELONGATED EXPANDABLE MEMBER FOR OCCLUDING VARICOSE VEINS

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 2nd day of
December, 2011.



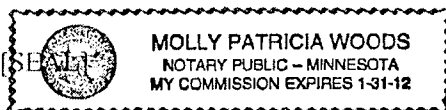
Howard Root

STATE OF Minnesota)

)ss

COUNTY OF Hennepin)

On this 2nd day of December, 2011 before me personally appeared
Howard Root, to me known and known to me to be the person described in and who executed the
foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the
uses and purposes therein set forth.



Notary Public

PATENT

REEL: 027318 FRAME: 0750

ASSIGNMENT

Docket No: 3195.014US1

Assignors: Howard Root et al.

Title: ELONGATED EXPANDABLE MEMBER FOR OCCLUDING VARICOSE VEINS

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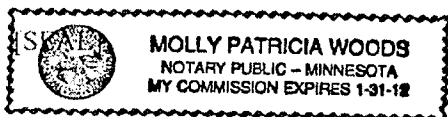
IN TESTIMONY WHEREOF, I have hereunto set my hand this 2nd day of
December, 20 11.

James Murto
James Murto

STATE OF Minnesota)
)ss

COUNTY OF Hennepin)

On this 2nd day of December, 20 11 before me personally appeared James Murto, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Molly Patricia Woods
Notary Public

ASSIGNMENT

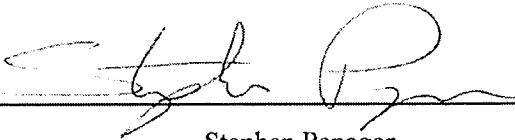
Assignors: Howard Root et al.

Title: ELONGATED EXPANDABLE MEMBER FOR OCCLUDING VARICOSE VEINS

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Docket No: 3195.014US1

IN TESTIMONY WHEREOF, I have hereunto set my hand this 2nd day of
December, 2011.

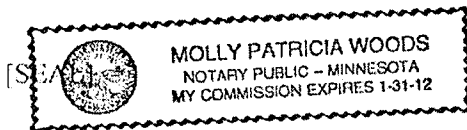



Stephen Penegor

STATE OF Minnesota)
)ss

COUNTY OF Hennepin)

On this 2nd day of December, 2011 before me personally appeared
Stephen Penegor, to me known and known to me to be the person described in and who executed
the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for
the uses and purposes therein set forth.





Notary Public


Docket No: 3195.014US1

Assignors: Howard Root et al.

Title: ELONGATED EXPANDABLE MEMBER FOR OCCLUDING VARICOSE VEINS

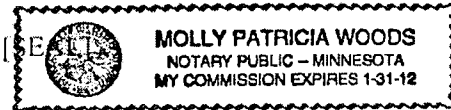
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IN TESTIMONY WHEREOF, I have hereunto set my hand this 2nd day of December, 2011.


Gregg Sutton

STATE OF Minnesota)
)SS
COUNTY OF Hennepin)

On this 2nd day of December, 2011 before me personally appeared Gregg Sutton, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Mally Patricia Woods
Notary Public