

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Volumetrics Medical Imaging, LLC</td> <td>12/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Volumetrics Medical Imaging, LLC	12/07/2012
Name	Execution Date				
Volumetrics Medical Imaging, LLC	12/07/2012				
RECEIVING PARTY DATA					
Name:	Olaf von Ramm Ph.D				
Street Address:	4718 Hamony Church Road				
City:	Efland				
State/Country:	NORTH CAROLINA				
Postal Code:	27243				
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>09224746</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	09224746
Property Type	Number				
Application Number:	09224746				
CORRESPONDENCE DATA					
Fax Number:	9198541401				
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>					
Phone:	9198541400				
Email:	awooten@myersbigel.com				
Correspondent Name:	Audra Wooten				
Address Line 1:	4140 Parklake Avenue, Suite 600				
Address Line 4:	Raleigh, NORTH CAROLINA 27612				
ATTORNEY DOCKET NUMBER:	1173-2				
NAME OF SUBMITTER:	Audra Wooten				
Signature:	//abw//				
Date:	05/10/2013				
Total Attachments: 11 source=1173-2_Assignment#page1.tif					

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Assignment of Patents

WHEREAS, Volumetrics Medical Imaging, LLC (hereinafter referred to as “**ASSIGNOR**”), is the owner of the entire right, title, and interest in and to certain inventions entitled as stated in Exhibit “A” hereto (“**Inventions**”) for which Inventions Letters Patent of the United States of America were issued and accorded the patent numbers in Exhibit “A” hereto (each, a “**Patent**”; together, the “**Patents**”), which such Patents are subject to certain non-exclusive licenses listed in Exhibit “B” hereto and to certain rights held by the United States government; and

WHEREAS, Olaf von Ramm, Ph.D. (“**ASSIGNEE**”) desires to acquire all of **ASSIGNOR**’s right, title and interest in, to and under said Inventions and in, to and under any Patent or similar legal protection in the United States of America, its territorial possessions and in any and all countries foreign thereto, and **ASSIGNOR**, pursuant to the written Resolution of the Board of Representatives of Volumetrics Medical Imaging, LLC dated November 26, 2012, Exhibit “C” hereto, resolves to assign all such rights to **ASSIGNEE**;

NOW, THEREFORE, for good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged:

1. **ASSIGNOR** hereby irrevocably sells, assigns, transfers and sets over unto said **ASSIGNEE**, its successors and assigns, all of **ASSIGNOR**’s rights, title, and interest (including but not limited to, the Patent claims, all rights to prepare derivative works, all goodwill and all other rights), in and to the Patents and the Inventions, and all patent applications or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said Inventions, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention, and further including any and all right to recover damages or other relief for past infringement of the letters patent noted above; and **ASSIGNOR** hereby authorizes and requests the United States Commissioner of Patents and Trademarks and any officials of foreign countries whose duty it is to issue patents or any legal equivalent thereof to record this assignment to said **ASSIGNEE**, its successors and assigns, in accordance with this Assignment.

1. **ASSIGNOR** hereby covenants that:

- a. no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement;

- b. **ASSIGNEE** will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said Inventions and said Letters Patent and legal equivalents as may be known and accessible to **ASSIGNOR** and will promptly execute and deliver to **ASSIGNEE** or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said Inventions and said Letters Patent and said equivalents in the United States which may be necessary or desirable to carry out the purposes thereof;
- c. **ASSIGNOR** has the right, power and authority to enter into this Agreement;
- d. **ASSIGNOR** is the exclusive owner of all right, title and interest, including all intellectual property rights, in the Inventions and the Patents, subject to the non-exclusive rights granted to licensees listed in Exhibit "B" hereto;
- e. There are no claims, pending or threatened, with respect to **ASSIGNOR's** rights in the Inventions and Patents;
- f. This Agreement is valid, binding and enforceable in accordance with its terms; and
- g. **ASSIGNEE** can register and dispose of the copyright in the work in the **ASSIGNEE's** own name.

2. Entire Agreement

This Agreement, contains the entire understanding and agreement between the parties hereto with respect to its subject matter and supersedes any prior or contemporaneous written or oral agreements, representations or warranties between them respecting the subject matter hereof.

3. Amendment

This Agreement may be amended only by a writing signed by both parties.

4. Severability

If any term, provision, covenant or condition of this Agreement, or the application thereof to any person, place or circumstance, shall be held by a court of competent jurisdiction to be invalid,

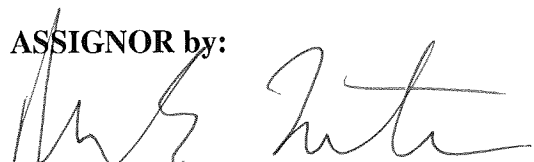
unenforceable or void, the remainder of this Agreement and such term, provision, covenant or condition as applied to other persons, places and circumstances shall remain in full force and effect.

5. Governing Law

This Agreement shall be construed in accordance with, and all actions arising hereunder shall be governed by, the laws of the State of North Carolina, without regard to its laws or procedures on Conflict of Laws.

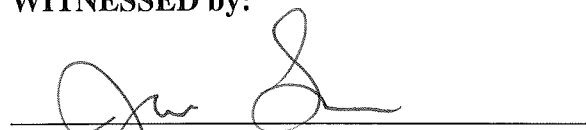
Executed this 7th day of December, 2012.

ASSIGNOR by:



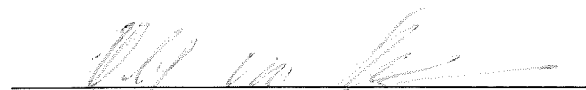
Mark Foster, General Counsel and Secretary
Volumetrics Medical Imaging, LLC

WITNESSED by:



Print Name: Julia Short

ASSIGNEE:



Olaf von Ramm, Ph.D.

Dec 8, 2012
Date

**Exhibit "A" to the
Assignment of Patents**

5,522,393	Multi-Dimensional Real-Time Ultrasonic Blood Flow Imaging Apparatus and Method
5,546,807	High-Speed Volumetric Ultrasound Imaging System.
6,066,095	Ultrasound Methods, Systems, and Computer Program Products for Determining Movement of Biological Tissues
6,066,096	Imaging Probes and Catheters for Volumetric Intraluminal Ultrasound Imaging and Related Systems
6,126,600	Ultrasound Image Assisted Administering of Medication
6,159,153	Methods and Systems for Ultrasound Scanning Using Spatially and Spectrally Separated Transmit Ultrasound Beams
6,241,675	Methods and Systems for Determining Velocity of Tissue Using Three Dimensional Ultrasound Data
6,276,211	Methods and Systems for Selective Processing of Transmit Ultrasound Beams to Display Views of Selected Slices of a Volume
6,500,123	Methods and Systems for Alilgning Views of Image Data
6,530,888	Imaging Probes and Catheters for Volumetric Intraluminal Ultrasound Imaging
6,544,178	Methods and Systems for Volume Rendering using Ultrasound Data
6,545,678	Methods, Systems, and Computer Program Products for Generating Tissue Surfaces from Volumetric Intraluminal Ultrasound Imaging and Related Systems
6,572,551	Imaging Catheters for Volumetric Intraluminal Ultrasound Imaging
6,641,534	Methods and Devices for Ultrasound Scanning by Moving Sub-apertures of Cylindrical Ultrasound Transducer Arrays in Two Dimensions
6,783,497	Two-Dimensional Ultrasonic Array with Asymetric Apertures

**Exhibit "B" to the
Assignment of Patents**

Name of Licensees (The specific terms, and the patents covered, are stated in each respective license agreement.)	Date of License
GE Healthcare, Ltd.; GE Medical Systems, Inc.; GE Medical Systems, LLC; GE Medical Systems Kretztechnik GMBH & Co. OHG	Feb. 22, 2008
Medison America, Inc.	May 10, 2010
Toshiba America Medical Systems, Inc.; Toshiba Medical Systems Corporation	Feb. 6, 2012
Siemens Medical Solutions USA, Inc.	March 12, 2012

Assignee hereby acknowledges that a complete copy of each license listed herein has been provided to Assignee.

**Exhibit "C" to the
Assignment of Patents**

**Resolution of the Board of Representatives of Volumetrics Medical Imaging, LLC
November 26, 2012**

**RESOLUTION OF THE BOARD OF REPRESENTATIVES
OF
VOLUMETRICS MEDICAL IMAGING, LLC**

At a meeting held on November 26, 2012, the Board of Representatives (the "Board") of Volumetrics Medical Imaging, LLC (the "Company") adopted the following resolution by unanimous vote taken by the disinterested members of the Board:

Whereas, the Company is the owner of certain inventions patents issued and accorded the patent numbers listed in Exhibit "A" hereto (each, a "Patent"; together, the "Patents"); and

Whereas, the Board has determined that it is in the Company's best interests to now transfer and assign the Patents to Olaf von Ramm, Ph.D., pursuant to this Resolution;

THEREFORE:

1. Transfer, Assignment and Conveyance of the Patents:

IT IS HEREBY RESOLVED THAT the Board agrees to transfer, assign and convey the Patents to Olaf von Ramm, Ph.D. pursuant to a Patent Assignment substantially in the form of Exhibit B attached hereto;


2. OMNIBUS RESOLUTIONS

IT IS HEREBY FURTHER RESOLVED THAT any of the authorized officers and/or directors of the Company be, and each of them hereby is, authorized (i) to prepare, execute, deliver and perform, as the case may be, such agreements, amendments, applications, approvals, certificates, communications, consents, demands, directions, documents, further assurances, instruments, notices, orders, requests, resolutions, supplements or undertakings, (ii) to pay or cause to be paid on behalf of the Company any related costs and expenses and (iii) to take such other actions, in the name and on behalf of the Company, as each such officer, in his discretion, shall deem necessary or advisable to complete and effect the foregoing transactions or to carry out the intent and purposes of the foregoing resolutions and the transactions contemplated thereby, the preparation, execution, and delivery of any such agreements, amendments, applications, approvals, certificates, communications, consents, demands, directions, documents, further assurances, instruments, notices, orders, requests, resolutions, supplements or undertakings, the payment of any such costs or expenses and the performance of any such other acts shall be conclusive evidence of the approval of the Board thereof and all matters relating thereto; and

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IT IS HEREBY RESOLVED FURTHER that all actions heretofore taken by the officers and directors of the Company with respect to the foregoing transactions and all other matters contemplated by the foregoing resolutions are hereby approved, adopted, ratified and confirmed.

The foregoing Resolutions are taken by unanimous vote of the disinterested Board members and are effective on and from November 26, 2012.



John Oxaal, Representative

Date: 12/6/12

William New, Representative

Date: _____

Abstain

Olaf von Ramm, Representative

Date: _____

Stephen Smith, Representative

Date: _____

Attached:

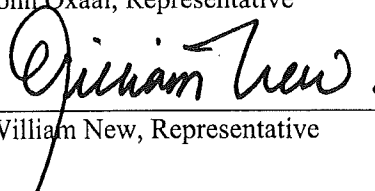
- Exhibit A: Patents
- Exhibit B: Patent Assignment

IT IS HEREBY RESOLVED FURTHER that all actions heretofore taken by the officers and directors of the Company with respect to the foregoing transactions and all other matters contemplated by the foregoing resolutions are hereby approved, adopted, ratified and confirmed.

The foregoing Resolutions are taken by unanimous vote of the disinterested Board members and are effective on and from November 26, 2012.

John Oxaal, Representative

Date: _____



William New, Representative

Date: 12/1/12

Abstain

Olaf von Ramm, Representative

Date: _____

Stephen Smith, Representative

Date: _____

Attached:

- Exhibit A: Patents
- Exhibit B: Patent Assignment

IT IS HEREBY RESOLVED FURTHER that all actions heretofore taken by the officers and directors of the Company with respect to the foregoing transactions and all other matters contemplated by the foregoing resolutions are hereby approved, adopted, ratified and confirmed.

The foregoing Resolutions are taken by unanimous vote of the disinterested Board members and are effective on and from November 26, 2012.

John Oxaal, Representative

Date: _____

William New, Representative

Date: _____

Abstain

Olaf von Ramm, Representative

Date: _____



Stephen Smith, Representative

Date: 12/7/12

Attached:

- Exhibit A: Patents
- Exhibit B: Patent Assignment