

Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET

PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

STEPHEN AYLWARD
ELIZABETH BULLITT
JULIEN JOMIER

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

2. Name and address of receiving party(ies)

Name: The University of North Carolina at Chapel Hill

Internal Address: Campus Box 4105

Street Address: 308 Bynum Hall

City: Chapel Hill

State: North Carolina

Country: USA Zip: 27599-4105

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

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

Execution Date(s) 11/19/2007, 04/02/2007, and 11/19/2007

- 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):

A. Patent Application No.(s) 11/663,661

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Gregory A. Hunt

Jenkins, Wilson, Taylor & Hunt, P.A.

Internal Address: _____

Street Address: Suite 1200 University Tower

3100 Tower Boulevard

City: Durham

State: NC Zip: 27707

Phone Number: 919-493-8000

Fax Number: 919-419-0383

Email Address: ghunt@jwth.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- 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 50-0426

Authorized User Name JENKINS, WILSON, TAYLOR & HUNT, P.A.

9. Signature:

Signature

December 16, 2009

Date

Gregory A. Hunt

Name of Person Signing

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

4

CH \$40.00 500426 11663661

PATENTAtty Docket: 421/121 PCT/USASSIGNMENT

WHEREAS, we, Stephan Aylward, of Chapel Hill, North Carolina, Elizabeth Bullitt, of Durham, North Carolina, and Julien Jomier, of Chapel Hill, North Carolina, hereinafter ("Assignors"), have invented certain new and useful improvements in METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR HIERARCHICAL REGISTRATION BETWEEN A BLOOD VESSEL AND TISSUE SURFACE MODEL FOR A SUBJECT AND BLOOD VESSEL AND TISSUE SURFACE IMAGE FOR THE SUBJECT for which application for a U.S. Letters Patent was made as a national phase application based on PCT/US2005/034289 filed September 26, 2005 which claims priority to U.S. Application No. 11/663,661 filed September 24, 2004). We hereby authorize and request our attorneys, Jenkins, Wilson, Taylor & Hunt, P.A., to insert here in parentheses (application number 11/663,661 filed March 23, 2007) the filing date and application number of said application when known.

AND, WHEREAS, The University of North Carolina at Chapel Hill, a non-profit organization located at Chapel Hill, North Carolina (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors have sold and by these presents do hereby sell, assign, transfer and convey unto the said Assignee, its successors and assigns, their entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with their right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment and sale had not been made.


Assignors hereby request that said Letters Patent be issued in accordance with this assignment.

Assignors further covenant and agree that, at the time of the execution and delivery of these presents, Assignors possess full title to the invention and application above-mentioned, and that they have the unencumbered right and authority to make this assignment.

Assignors further covenant and agree, and likewise bind their heirs, legal representatives and assigns, to promptly communicate to said Assignee or its

representatives any facts known to them relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Executed this 19 day of November 2007.


Stephen Aylward

Witnessed by:

Burt Durr 19 Nov 07
Name Date

Patrick Reynolds 11/19/2007
Name Date

Executed this 2nd day of April 2007.

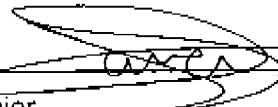
Bullitt
Elizabeth Bullitt

Witnessed by:

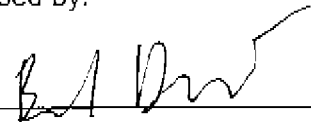
Mark A. Danahan 4/2/07
Name Date

[Signature] 4/2/07
Name Date

Executed this 19 day of November 2007.


Julien Jomier

Witnessed by:

 19 Nov 07
Name Date

 19 Nov 07
Name Date