

**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)

Jian J. Zhang
Jianping Lu
Otto Z. Zhou
David Lalush

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

Street Address: 308 Bynum Hall

City: Chapel Hill

State: North Carolina

Country: _____ Zip: 27599

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

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

Execution Date(s) 9/4/2007; 9/11/2007; 9/4/2007;
9/5/2011

- 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) 11/804,897

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: Jeffrey L. Wilson

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: _____

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

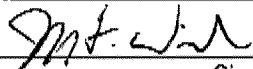
a. Credit Card Last 4 Numbers _____
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b. Deposit Account Number 50-0426

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

ATTY DOCKET NO.: 421/167/2

9. Signature:



Signature

July 15, 2011

Date

Jeffrey L. Wilson
Name of Person Signing

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

5

CH \$40.00 500426 11804897

PATENTAtty Docket: 421/167/2ASSIGNMENT

WHEREAS, we, Jian J. Zhang, City of Carrboro, State of North Carolina; Jianping Lu, City of Chapel Hill, State of North Carolina; Otto Z. Zhou, City of Chapel Hill, State of North Carolina and David Lalush, City of Cary, State of North Carolina, (hereinafter "Assignors"), have invented certain new and useful improvements in METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR BINARY MULTIPLEXING X-RAY RADIOGRAPHY for which a U.S. Patent Application was filed on May 21, 2007 as Serial No.11/804,897.

WHEREAS, Jian J. Zhang, Jianping Lu and Otto Z. Zhou are under an obligation to assign their rights to the University of North Carolina at Chapel Hill, while David Lalush is under an obligation to assign his rights to both the University of North Carolina at Chapel Hill and to North Carolina State University.

WHEREAS, David Lalush is also assigning his rights to North Carolina State University by a separate assignment.

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 Assignee, its successors and assigns, their entire right, title and interest in and to the invention and application, and in and to any and all foreign patent applications filed on the invention, 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

Atty. Docket No.:421/167/2

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.

Atty. Docket No.:421/167/2

Executed this 4th day of September 2007.

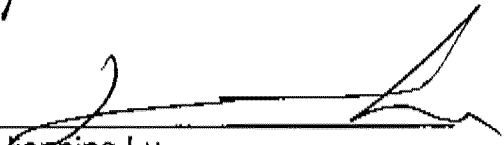

Jian X Zhang

Witnessed by:

Mary M. Hudson 9/4/07
Name Date

Maryanne Canessa 9/4/07
Name Date

Executed this 9/11 day of Sept. 2007.


Jianping Lu

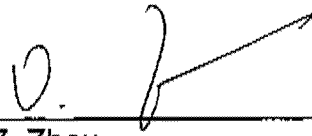
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Mary M. Hudson 9/11/07
Name Date

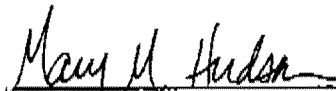
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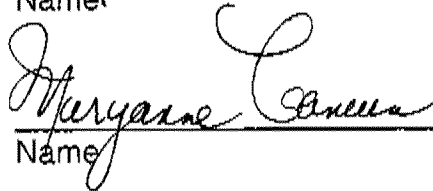
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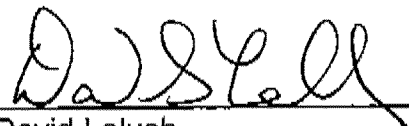

Otto Z. Zhou

Witnessed by:

 9/4/07
Name Date

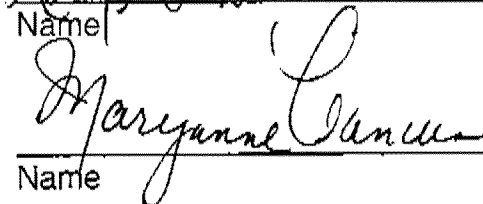
 9/4/07
Name Date

Executed this 5th day of Sept. 2007.


David Lalush

Witnessed by:

 9/5/07
Name Date

 9/5/07
Name Date