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PATENTS ONLY

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1. Name of conveying party(ies): David A.B. Miller  
Jonathan E. Roth

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

2. Name and address of receiving party(ies):  
Name: The Board of Trustees of the Leland Stanford Junior University  
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3. Nature of conveyance/Execution Date(s):  
 Assignment  Joint Research Agreement  
 Security Agreement  Government Interest Assignment  
 Merger  Executive Order 9424m Confirmatory License  
 Change of Name  Other  
Execution Date(s): 12/04/2006

4. Application or patent number(s):  
A. Patent Application No.(s) 11/524498 A. Patent No.(s)  
 This document is being filed together with a new application.  
Additional numbers attached?  Yes  No

5. Name and address to whom correspondence concerning document should be mailed:  
Name: LUMEN Intellectual Property Services, Inc.  
Street address: 2345 Yale Street, Second Floor  
City: Palo Alto State: CA Zip: 94306 Country: USA  
Phone No.: 650-424-0100 Fax No.: 650-424-0141 Email: admin@lumen.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41): \$ 40  Authorized to be charged by credit card

8. Payment information:  
a. Credit Card Last 4 Numbers: 9737 Credit Card Expiration Date: 10/2006

9. Signature:  
Signature Robert Lodenkamper  
Printed Name Robert Lodenkamper  
Date 12/6/06  
Total number of pages including cover sheet, attachments and documents: 4

Documents to be recorded (including cover sheet) should be faxed to (571-273-0140), or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450.

# ASSIGNMENT

## WHEREAS, I/WE:

**David A.B. Miller**, a United Kingdom citizen, residing at 815 San Francisco Court, Stanford, CA 94305 -1021, USA

**Jonathan E. Roth**, a USA citizen, residing at 116 Jenkins Court, Apt 108, Stanford, CA 94305, USA

1) For valuable consideration, the receipt and adequacy of which receipt is acknowledged, I/we, the above-named Assignor(s), each sell and assign to hereinafter Assignee, the entire right, title and interest in and to the invention or inventions as described in US Patent Application, 11/524498, entitled Optical Modulator with Side Access filed on 9/19/2006 and naming Assignor(s) as inventor(s), and to any and all applications for patent and patents in any and all countries relating to said invention(s), including all divisions, continuations, reissues and extensions thereof, and including all domestic and foreign rights of priority resulting from the filing of said US patent application.

2) I/we hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment, and that at the time of execution and delivery of this assignment, I/we are the sole lawful owner(s) of the entire right, title and interest in and to said invention(s).

3) I/we hereby agree that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorize Assignee and grant Assignee the sole right to do so.

4) I/we agree that on request and without further consideration, but at the expense of Assignee, I/we will sign all lawful papers, make all rightful oaths, and testify in any legal proceedings relating to said invention(s), and generally aid Assignee, or its successors, assigns, or nominees, to obtain and enforce proper patent protection for said invention(s) in any and all countries.

5) I/we authorize and request any official whose duty it is to issue patents to issue any patent on said invention(s) or resulting therefrom to Assignee, or its successors, assigns, or nominees.

Inventor: **David A.B. Miller**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor: **Jonathan E. Roth**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Agent Reference: S05-224/US

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Inventor: **David A.B. Miller**

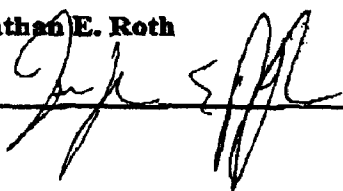
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Inventor: **Jonathan E. Roth**

Signature: \_\_\_\_\_

Date: 11-29-06



Agent Reference: S05-224/US

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