

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Tiziana Bond</td> <td>05/27/2008</td> </tr> <tr> <td>Lynford Goddard</td> <td>05/27/2008</td> </tr> <tr> <td>Garrett Cole</td> <td>05/27/2008</td> </tr> <tr> <td>Jeff Kallman</td> <td>05/27/2008</td> </tr> </tbody> </table>		Name	Execution Date	Tiziana Bond	05/27/2008	Lynford Goddard	05/27/2008	Garrett Cole	05/27/2008	Jeff Kallman	05/27/2008
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Tiziana Bond	05/27/2008										
Lynford Goddard	05/27/2008										
Garrett Cole	05/27/2008										
Jeff Kallman	05/27/2008										
RECEIVING PARTY DATA											
Name:	Lawrence Livermore National Security, LLC										
Street Address:	7000 East Avenue										
Internal Address:	L-703										
City:	Livermore										
State/Country:	CALIFORNIA										
Postal Code:	94550										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12129503</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12129503						
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Application Number:	12129503										
CORRESPONDENCE DATA											
Fax Number:	(925)423-2231										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	925-422-7073										
Email:	nugent8@llnl.gov										
Correspondent Name:	John H. Lee/LLNS										
Address Line 1:	7000 East Avenue										
Address Line 2:	L-703										
Address Line 4:	Livermore, CALIFORNIA 94550										
ATTORNEY DOCKET NUMBER:	IL-11860										
NAME OF SUBMITTER:	John H. Lee										

CH \$40.00 12129503

Total Attachments: 4

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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)

Tiziana Bond
Lynford Goddard
Garrett Cole
Jeff Kallman

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

2. Name and address of receiving party(ies)

Name: Lawrence Livermore National Security, LLC

Internal Address: P.O. Box 808, L-703

Street Address: 7000 East Avenue

City: Livermore

State: CA

Country: USA Zip: 94551

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

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

Execution Date(s) 05/27/08

- 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):

This document is being filed together with a new application.

A. Patent Application No.(s)

12/129,503 filed 05/29/08

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: John H. Lee/LLNS

Internal Address: P.O. Box 808, L-703

Street Address: 7000 East Avenue

City: Livermore

State: CA Zip: 94551

Phone Number: 925/422-7073

Fax Number: 925/423-2231

Email Address: N/A

6. Total number of applications and patents involved: 1 (ONE)

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.

- 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 12-0695

Authorized User Name Wanda Nugent

9. Signature:

Wanda Nugent
Signature

6/19/08
Date

Wanda Nugent
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 1

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, V.A. 22313-1450

ASSIGNMENT

LLNL Case No.: IL-11860

For good and valuable consideration the receipt of which is hereby acknowledged ASSIGNOR(s)

- | | |
|---------------------------|------------------------|
| 1. <u>Tiziana Bond</u> | 2. <u>Garrett Cole</u> |
| 3. <u>Lynford Goddard</u> | 4. <u>Jeff Kallman</u> |
| 5. <u>//</u> | 6. <u>//</u> |
| 7. <u>//</u> | 8. <u>//</u> |
| 9. <u>//</u> | 10. <u>//</u> |

hereby sells, assigns and transfers to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware Corporation, having its administrative offices located at 7000 East Avenue, Livermore, California 94551-9234, and the successors, assigns and legal representative of the ASSIGNEE all of its right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

Low Loss, High and Low Index Contrast Waveguides in Semiconductors

and which is found in

- U.S. patent application executed on 05/27/08, entitled as above and listing the above named persons as inventors
- U.S. patent application serial no. 12/129,503, filed on 05/29/08
- U. S. patent no. _____, issued _____

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto 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 or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, the Regents of the University of California.

executed this

05/27/08
Date

Signature of Inventor(s)

Tiziana Bond
Tiziana Bond

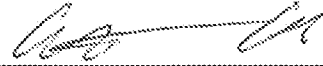
IL-11860

executed this

5/22/2008

Date

Signature of Inventor(s)



Garrett Cole

executed this

Date

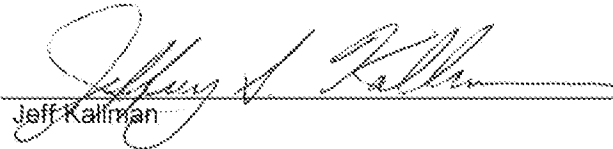
Signature of Inventor(s)

See next page

Lynford Goddard

5/22/08

Date



Jeff Kallman

- End of Document -
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executed this

Signature of Inventor(s)

Date

Garrett Cole

executed this

Signature of Inventor(s)

5/27/08
Date

Lynford Goddard
Lynford Goddard

Date

Jeff Kallman

- End of Document -
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