

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>Michael J. Messerly</td><td>02/04/2011</td></tr><tr><td>Jay W. Dawson</td><td>02/04/2011</td></tr><tr><td>Raymond J. Beach</td><td>02/07/2011</td></tr><tr><td>Christopher P.J. Barty</td><td>02/04/2011</td></tr></tbody></table>		Name	Execution Date	Michael J. Messerly	02/04/2011	Jay W. Dawson	02/04/2011	Raymond J. Beach	02/07/2011	Christopher P.J. Barty	02/04/2011
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Michael J. Messerly	02/04/2011										
Jay W. Dawson	02/04/2011										
Raymond J. Beach	02/07/2011										
Christopher P.J. Barty	02/04/2011										
RECEIVING PARTY DATA											
Name:	Lawrence Livermore National Security, LLC										
Street Address:	2300 First Street										
Internal Address:	Suite 204										
City:	Livermore										
State/Country:	CALIFORNIA										
Postal Code:	94550										
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>11809112</td></tr></tbody></table>		Property Type	Number	Application Number:	11809112						
Property Type	Number										
Application Number:	11809112										
CORRESPONDENCE DATA											
Fax Number: (925)423-2231 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 9254227272											
Email: clinkenbeard3@llnl.gov											
Correspondent Name: LLNS											
Address Line 1: 7000 East Avenue											
Address Line 2: P.O. Box 808, L-703											
Address Line 4: Livermore, CALIFORNIA 94551											
ATTORNEY DOCKET NUMBER:	IL-11694										
NAME OF SUBMITTER:	Mark H. Lough										

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PATENT
REEL: 025787 FRAME: 0286

Total Attachments: 3

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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)

1. Michael J. Messerly; 2. Jay W. Dawson; 3. Raymond J. Beach;
4. Christopher P.J. Barty

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

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

Execution Date(s) 1, 2, 3, 2-4-11; 3, 2-7-11

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Lawrence Livermore National Security, LLC

Internal Address: _____

Street Address: 2300 First Street, Suite 204

City: Livermore

State: California

Country: US Zip: 94550

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

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/809,112

B. Patent No.(s)

NA

Additional numbers attached? ☐ Yes ☒ No

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

Name: LLNL

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

Street Address: 7000 East Avenue

City: Livermore

State: California Zip: 94550

Phone Number: 925 422-7272

Fax Number: 925 423-2231

Email Address: clinkenbeard3@llnl.gov

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 to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 120695

Authorized User Name Linda Clinkenbeard

9. Signature:

/Mark H. Lough /

Signature

February 10, 2011

Date

Mark H. Lough

Name of Person Signing

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

3

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

PATENT
REEL: 025787 FRAME: 0288

ASSIGNMENT

LLNL Case No.: IL-11694

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

1. Michael J. Messerly 2. Jay W. Dawson
3. Raymond J. Beach 4. Christopher P.J. Barty
5. _____ 6. _____

hereby sells, assigns and transfers to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware Corporation, having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550 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:

OPTICAL FIBER HAVING WAVE-GUIDING RINGS

and which is found in

- ☒ U.S. patent application executed on _____, entitled as above and listing the above named persons as inventors
- ☒ U.S. patent application serial no. 11/809112, filed on May 30, 2007
- ☐ 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, Lawrence Livermore National Security, LLC.

executed this

2/4/11
Date

Signature of Inventor(s)

Michael J. Messerly
Michael J. Messerly

executed this

2/4/11
Date

Signature of Inventor(s)

Jay W. Dawson
Jay W. Dawson

LLNL Case No.: IL-11694

executed this

7-Feb-11

Date

Signature of Inventor(s)

Raymond J. Beach

Raymond J. Beach

executed this

Feb 4th, 2011

Date

Signature of Inventor(s)

Christopher PJ Barty

Christopher PJ Barty