

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>LAWRENCE LIVERMORE NATIONAL SECURITY, LLC</td> <td>02/01/2013</td> </tr> </tbody> </table>		Name	Execution Date	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	02/01/2013						
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LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	02/01/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>U.S. Department of Energy</td> </tr> <tr> <td>Street Address:</td> <td>1000 Independence Ave., SW</td> </tr> <tr> <td>City:</td> <td>Washington</td> </tr> <tr> <td>State/Country:</td> <td>DISTRICT OF COLUMBIA</td> </tr> <tr> <td>Postal Code:</td> <td>20585</td> </tr> </table>		Name:	U.S. Department of Energy	Street Address:	1000 Independence Ave., SW	City:	Washington	State/Country:	DISTRICT OF COLUMBIA	Postal Code:	20585
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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>13071382</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13071382						
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CORRESPONDENCE DATA											
Fax Number:	2025867127										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	2025862802										
Email:	brenda.banks@hq.doe.gov										
Correspondent Name:	Brenda K. Banks										
Address Line 1:	1000 Independence Ave.										
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20585										
NAME OF SUBMITTER:	Brenda K. Banks										
Total Attachments: 1 source=S-102936 Confirmatory License#page1.tif											

CONFIRMATORY LICENSE

Title: Method for Separating and Combining Single-Mode and Multimode Optical Beams

Inventor(s): Anthony J. Ruggiero, Donald A. Masquelier, Jeffrey B. Cooke, Jeffrey S. Kallman

DOE Docket No.: S102,936

Contract Number: DE-AC52-07NA27344

**Contractor: Lawrence Livermore National Security, LLC
Lawrence Livermore National Laboratory**

Docket No./Sub: IL-11254/A

U.S. Patent Application S.N.: 13/071382

Filing Date: 03/24/11

Waiver No.: W(C) 08-001

Foreign patent applications filed or intended to be filed at contractor's expense in (countries):

WHEREAS, the above-identified invention is a subject invention under the above-identified contract;

WHEREAS, the above-identified Class Waiver of Government rights in certain identified inventions and the above-identified contract provides the Contractor with the right to elect to retain title in certain subject inventions and the Contractor has elected to retain title in the above-identified subject invention, EXCEPT FOR a paid-up license under the above-identified contract and the above-identified waiver.


ACCORDINGLY, the Contractor hereby confirms that under the provisions of the above-identified contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world. This license applies to the above-identified invention, the above-identified patent application(s), and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.


The Government reserves for itself, and is hereby granted by the Contractor, the irrevocable power to inspect and make copies of the file wrapper(s) of the above-identified U.S. patent application and of any related or continuation patent application(s), whether domestic or foreign, for the above-identified invention.

It is understood and agreed that this instrument does not preclude the Government from asserting rights under the provisions of the above-identified contract or any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

Signed on behalf of: LAWRENCE LIVERMORE NATIONAL SECURITY, LLC

(Contractor)

Witness: 
Sherry Faux, Administrative Assistant

By:  **Date:** 2/1/13
Mark H. Lough, Deputy General Counsel
Lawrence Livermore National Laboratory
P.O. Box 808, L-701
Livermore, CA 94551-0808