

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>06/06/2013</td> </tr> </tbody> </table>		Name	Execution Date	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	06/06/2013						
Name	Execution Date										
LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	06/06/2013										
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
Name:	U.S. Department of Energy										
Street Address:	1000 Independence Ave., SW										
City:	Washington										
State/Country:	DISTRICT OF COLUMBIA										
Postal Code:	20585										
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>13904810</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13904810						
Property Type	Number										
Application Number:	13904810										
CORRESPONDENCE DATA											
<p>Fax Number: 2025867127 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>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</p>											
NAME OF SUBMITTER:	Brenda K. Banks										
Signature:	/Brenda K. Banks/										
Date:	09/20/2013										
<p>Total Attachments: 1 source=S-129794 - Confirmatory License#page1.tif</p>											

CONFIRMATORY LICENSE

Title: APPARATUS AND METHODS FOR RAPID THERMAL PROCESSING

Inventor(s): Thomas Fredrick Soules, Alexander M. Rubenchik, Joseph M. Ranish, Aaron M. Hunter

DOE Docket No.: S129,794

Contract Number: DE-AC52-07NA27344

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

Docket No./Sub: IL-12640/A

U.S. Patent Application S.N.: 13/904810

Filing Date: 05/29/13

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.

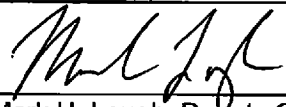
Signed on behalf of: LAWRENCE LIVERMORE NATIONAL SECURITY, LLC

(Contractor)

Witness:


Sherry Faux, Administrative Assistant

By:


Mark H. Lough, Deputy General Counsel
Lawrence Livermore National Laboratory
P.O. Box 808, L-701
Livermore, CA 94551-0808

Date: 6/6/13