502233807 02/19/2013

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

Name	Execution Date
LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	01/09/2013

RECEIVING PARTY DATA

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

Property Type	Number
Application Number:	13707053

CORRESPONDENCE DATA

Fax Number: 2025867127

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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-121490 Confirmatory License#page1.tif

PATENT REEL: 029826 FRAME: 0373

CONFIRMATORY LICENSE

Title: System and Method For Laser-Based, Non-Evaporative Repair Of Damage Sites In The Surfaces Of Fuse Silica Optics

Inventor(s): John J. Adams, Masoud Bolourchi, Jeffrey D. Bude, Gabriel Mark Guss, Jeffery Alan Jarboe, Manyalibo Joseph Matthews, Mike C. Nostrand, Paul J. Wegner

DOE Docket No.: \$121,490 Docket No./Sub: IL-12340/A

Contract Number: DE-AC52-07NA27344 U.S. Patent Application S.N.: 13/707053

Contractor: Lawrence Livermore National Security, LLC Filing Date: 12/06/12
Lawrence Livermore National Laboratory 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)

Sherry Faux, Administrative Assistant

Mark H. Lough, Deputy General Counsel Lawrence Livermore National Laboratory

P.O. Box 808, L-701 Livermore, CA 94551-0808

> PATENT REEL: 029826 FRAME: 0374

RECORDED: 02/19/2013

Witness: