503106432 12/18/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE

CONVEYING PARTY DATA

Name	Execution Date
LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	03/26/2014

RECEIVING PARTY DATA

Name:	U.S. DEPARTMENT OF ENERGY
Street Address:	1000 INDEPENDENCE AVE., SW
City:	WASHINGTON
State/Country:	D.C.
Postal Code:	20585

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14214244

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	BRENDA K. BANKS
SIGNATURE:	/Brenda K. Banks/
DATE SIGNED:	12/18/2014

Total Attachments: 1

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PATENT 503106432 REEL: 034538 FRAME: 0942

CONFIRMATORY LICENSE

Title: THREE DIMENSIONAL RADIOISOTOPE BATTERY AND METHODS OF MAKING THE SAME

Inventor(s): Victor Karpenko, Roger A. Henderson, Adam M. Conway, Rebecca J. Nikolic, Qinghui Shao, Dawn

A. Shaughnessy, Mark A. Stoyer, Lars F. Voss

DOE Docket No.: \$132,262 Docket No./Sub: IL-12745/A

Contract Number: DE-AC52-07NA27344 U.S. Patent Application S.N.: 14/214244

Contractor: Lawrence Livermore National Security, LLC Filing Date: 03/14/14
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)

Witness: Sherry Faux, Administrative Assistant

RECORDED: 12/18/2014

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

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PATENT REEL: 034538 FRAME: 0943