504273012 03/15/2017

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	03/10/2017

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:	15445038

CORRESPONDENCE DATA

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SIGNATURE:	/BRENDA K. BANKS/
DATE SIGNED:	03/15/2017

Total Attachments: 1

504273012

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PATENT REEL: 041582 FRAME: 0448

CONFIRMATORY LICENSE

Title: System and Method For Flexure Based Microstructural Logic Gates

Inventor(s): Andrew J. Pascall, Robert Panas

DOE Docket No.: S147,371 Docket No./Sub: IL-13156/A

Contract Number: DE-AC52-07NA27344 U.S. Patent Application S.N.: 15/445038

Contractor: Lawrence Livermore National Security, LLC Filing Date: 02/28/17
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

Melissa Graycar, Administrator

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

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PATENT REEL: 041582 FRAME: 0449

RECORDED: 03/15/2017