

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>10/26/2010</td></tr></tbody></table>	Name	Execution Date	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	10/26/2010							
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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											
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CORRESPONDENCE DATA											
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Total Attachments: 1 source=S-110027 Confirmatory License#page1.tif											

CONFIRMATORY LICENSE

Title: Printed Circuit Board Impedance-Matching Step for Thick Substrate Broadband Microwave (Millimeter Wave) Devices

Inventor(s): Hsueh-yuan Pao, Paul D. Sargis, Jerardo Aguirre

DOE Docket No.: S-110,027

Docket No./Sub: IL-11675/A

Contract Number: DE-AC52-07NA27344

U.S. Patent Application S.N.: 12/895347

Contractor: Lawrence Livermore National Security, LLC Filing Date: 09/30/10

Lawrence Livermore National Laboratory

Waiver No.: W(C) 92-002

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

The Contractor certifies that a true copy of the provisions which govern patent rights in "subject inventions" under the above-identified contract is herewith submitted or has been submitted to the U.S. Department of Energy by certification dated June 15, 1999.

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:

Marcos Garcia, Patent Administrator

By:

Mark H. Lough, Deputy General Counsel
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10/26/2010