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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3233795

IATURE OF CONVEYANCE: EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE CONVEYING PARTY DATA Execution Date Name Execution Date SANDIA CORPORATION 01/12/2013
Name Execution Date
SANDIA CORPORATION 01/12/2013
RECEIVING PARTY DATA
Name: U.S. DEPARTMENT OF ENERGY
Street Address: 1000 INDEPENDNCE AVE., SW
City: WASHINGTON
State/Country: D.C.
Postal Code: 20585
Property Type Number
Application Number:14028181
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Application Number: 14028181 CORRESPONDENCE DATA Image: Construction of the construction of
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CONFIRMATORY LICENSE

Application for:	Highly Directional Thermal Emitter
Inventor(s):	Troy Ribaudo, Eric A. Shaner, Paul Davids and David W. Peters
Serial Number:	14/028,181
Filing Date:	September 16, 2013
Contract No.:	DE-AC04-94AL85000
Contractor:	Sandia Corporation

The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provisions of the above-numbered contract certified on January 9, 1996, governing patent rights in the Subject Invention at the time the invention was made, has been submitted to the U. S. Department of Energy.

The contractor hereby confirms that under the provisions of the above-numbered 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 invention in the above-identified patent application and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

It is understood and agreed that this document does not preclude the Government from asserting rights under the provisions of said 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.

The Contractor hereby grants the Government an irrevocable power to inspect and make copies of the above-identified application.

Date: 1/12/13

Kerry Kampschmidt

Kerry Kampschmidt Senior Managing IP Counsel Legal Technology Transfer Center

If the invention was made under a subcontract, please identify the Prime Contractor:

, Prime Contract No.

PATENT REEL: 035053 FRAME: 0662

RECORDED: 02/20/2015