

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4731334

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE
CONVEYING PARTY DATA	
Name	Execution Date
REL, INC.	12/07/2017
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:	13836001
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DATE SIGNED:	12/13/2017
Total Attachments: 1	
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**SECTION H. CONFIRMATORY LICENSE**

Title of Invention: Thermal isolation spray for casting articles

Inventor(s): Josh E. Loukus, Adam R. Loukus, Travis Pennala, Luke Lusk

Patent Application Serial No: 13/836,001

Filing Date: March 15, 2013

Patent Number:

Issue Date:

Name of Organization: REL, Inc.

ARPA-E Award / Contract No.: DE-AR0000253

The named Organization has reported the above-identified invention as a Subject Invention to DOE and has elected to retain title thereto.

This document is confirmatory of (1) the nonexclusive, nontransferable, irrevocable, paid-up, World-wide license in this subject invention, patent application, and any resulting patent (including any continuation, divisional, reissue, or supplemental application thereof) to practice or to have practiced for or on behalf of the United States throughout the world; (2) all other rights acquired by the Government through the intellectual property provisions of the above-identified contract/award; and (3) all intellectual property, licensing, and manufacturing requirements imposed by the above-identified contract/award.

It is understood and agreed that this license does not preclude the Government from (1) asserting rights under the provisions of the above-identified contract/award or any other agreement between the Government and the named Organization, or (2) asserting any other Government rights with respect to the above-identified subject invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 7th day of December, 20 17

Authorized Representative's Name and Title (Typed) Adam R. Loukus, Vice President

Authorized Representative's Signature [Signature]