505928408 02/21/2020

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
ALLIANCE FOR SUSTAINABLE ENERGY, LLC	11/24/2016

RECEIVING PARTY DATA

Name:	UNITED STATES DEPARTMENT OF ENERGY	
Street Address:	1000 INDEPENDENCE AVE. S.W.	
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Postal Code:	20585	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15312714

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ATTORNEY DOCKET NUMBER:	15-312714 CAR
NAME OF SUBMITTER:	CYNTHIA RIDGE
SIGNATURE:	/CYNTHIA RIDGE/
DATE SIGNED:	02/21/2020

Total Attachments: 1

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PATENT 505928408 REEL: 051885 FRAME: 0684



DOE Docket No.: S-137,406

CONFIRMATORY LICENSE

Application for: METHODS FOR PRODUCING AND USING PEROVSKITE MATERIALS

AND DEVICES THEREFROM

Inventor(s):

Kai ZHU, Joseph M. LUTHER, Yixin ZHAO

Serial No.:

15/312,714

Filing Date:

November 21, 2016

Contract No.: Contractor:

DE-AC36-08GO28308 Alliance for Sustainable Energy, LLC

The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the Subject Invention 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 to 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.

Signed this 24th day of November 2016

John C. Stolpa

Associate General Counsel,

Intellectual Property

15013 Denver West Parkway Golden, CO 80401 Phone 303-275-3000

RECORDED: 02/21/2020

NREL is a national laboratory of the U.S. Department of Energy
Office of Energy Efficiency & Renewable Energy
Operated by the Alliance for Sustainable Energy, LLCPATENT

REEL: 051885 FRAME: 0685