

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
NATIONAL RENEWABLE ENERGY LABORATORY	10/18/2021
RECEIVING PARTY DATA	
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State/Country:	D.C.
Postal Code:	20585
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17502138
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Total Attachments: 1	
source=17-502138 License#page1.tif	



DOE Docket No.: S-150,532
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CONFIRMATORY LICENSE

Application for: PARTICLE-BASED THERMAL ENERGY STORAGE SYSTEMS
Inventor(s): Zhiwen MA, Patrick Gordan DAVENPORT, Janna MARTINEK
Serial No.: 17/502,138
Filing Date: October 15, 2021
Contract No.: DE-AC36-08GO28308
Contractor: 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 18th day of October 2021

/Alexandra M. Hall/

Alexandra M. Hall
Patent Counsel