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S-142,205

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Alliance for Sustainable Energy, LLC

2. Name and address of receiving party(ies)Name: United States Department of Energy

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) January 30, 2017

- ☐ Assignment ☐ Merger
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☒ Executive Order 9424, Confirmatory License
☐ Other _____

Street Address: 1000 Independence Ave., S.WCity: WashingtonState: D.C.Country: USA Zip: 20585Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)

Serial No. 15/415,370☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Michael J. DobbsInternal Address: U. S. Dept. of Energy, IPLDStreet Address: 9800 S. Cass AveCity: ArgonneState: IL Zip: 60439Phone Number: 630-252-2164Fax Number: 630-252-2779Email Address: Confirmatory.License@science.doe.gov**6. Total number of applications and patents involved: 1****7. Total fee (37 CFR 1.21(h) & 3.41) \$**

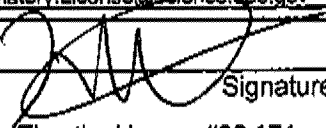
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PATENT**REEL: 042115 FRAME: 0094**



DOE Docket No.: S-142,205

CONFIRMATORY LICENSE

Application for: INTEGRATED MEMBRANE-PYROLYSIS SYSTEMS AND METHODS
Inventor(s): Michael Z. HU, Chaiwat ENGTRAKUL, Brian L. BISCHOFF, Mark F. DAVIS
Serial No.: 15/415,370
Filing Date: January 25, 2017
Contract No.: DE-AC36-08GO28308
Contractor: Alliance for Sustainable Energy, LLC

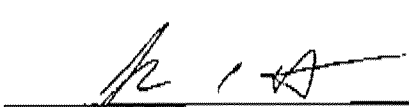
The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the Subject Invention has been submitted to the U.S. Department of Energy.

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.

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

Signed this 30th day of January 2017



John Q. Stolpa
Associate General Counsel,
Intellectual Property