

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/30/2008)

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

<p>1. Name of conveying party(ies) Alliance for Sustainable Energy, LLC</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies) Name: <u>United States Department of Energy</u> Internal Address: _____ _____ Street Address: <u>1000 Independence Ave., S.W.</u> _____ City: <u>Washington</u> State: <u>D.C.</u> Country: <u>USA</u> Zip: <u>20585</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance/Execution Date(s): Execution Date(s) <u>July 21, 2015</u></p> <p><input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input checked="" type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____</p>	

<p>4. Application or patent number(s): <input type="checkbox"/> This document is being filed together with a new application.</p> <p>A. Patent Application No.(s) Serial No. <u>14/804,161</u></p>	<p>B. Patent No.(s)</p>
<p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

<p>5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Michael J. Dobbs</u> Internal Address: <u>U. S. Dept. of Energy, IPLD</u> _____ Street Address: <u>9800 S. Cass Ave</u> _____ City: <u>Argonne</u> State: <u>IL</u> Zip: <u>60439</u> Phone Number: <u>630-252-2164</u> Fax Number: <u>630-252-2779</u> Email Address: <u>Confirmatory.License@ch.doe.gov</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____</p> <p><input type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> None required (government interest not affecting title)</p> <p>8. Payment Information</p> <p>a. Credit Card Last 4 Numbers _____ Expiration Date _____</p> <p>b. Deposit Account Number _____ Authorized User Name _____</p>
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<p>9. Signature: <u></u> Signature</p>	<p><u>10/7/2015</u> Date</p>
<p><u>John D. Cravero #71,245</u> Name of Person Signing</p>	<p>Total number of pages including cover sheet, attachments, and documents: 2</p>

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450



DOE Docket No.: S-135.614

CONFIRMATORY LICENSE

Application for: Biomass Conversion to Fuels and Chemicals
 Inventor(s): Gregg T. Beckham: Christopher W. Johnson: Derek R. Vardon:
 Mary Ann Franden
 Serial No.: 14/804,161
 Filing Date: July 20, 2015
 Contract No.: DE-AC36-08GO28308
 Contractor: Alliance for Sustainable Energy, LLC

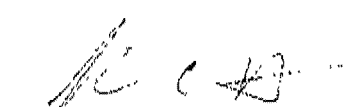
The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the Subject Invention has been submitted to the U.S. Department of Energy.

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 21st day of July 2015.



John C. Stolpa
 Associate General Counsel,
 Intellectual Property

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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, LLC

RECORDED: 10/07/2015

PATENT
 REEL: 036816 FRAME: 0955