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S-137,410

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1. Name of conveying party(ies)
Alliance for Sustainable Energy, LLC

Additional name(s) of conveying party(ies) attached? Yes No

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

Street Address: 1000 Independence Ave., S.W

City: Washington
State: D.C.
Country: USA Zip: 20585

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3. Nature of conveyance/Execution Date(s):
Execution Date(s) June 11, 2015
 Assignment Merger
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 Joint Research Agreement
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 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s): This document is being filed together with a new application.
A. Patent Application No.(s)
Serial No. 14/731,673

Additional numbers attached? Yes No

B. Patent No.(s)

5. Name and address to whom correspondence concerning document should be mailed:
Name: Michael J. Dobbs
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6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____
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 None required (government interest not affecting title)

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9. Signature: [Signature] 8/11/2015
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DOE Docket No.: S-137,410

CONFIRMATORY LICENSE

Application for: CATALYSTS AND METHODS FOR CONVERTING CARBONACEOUS MATERIALS TO FUELS
Inventor(s): Jesse Hensley, Daniel A. Ruddy, Joshua A. Schaidle, Mayank Behl
Serial No.: 14/731,673
Filing Date: June 5, 2015
Contract No.: DE-AC36-08GO28308
Contractor: Alliance for Sustainable Energy, LLC

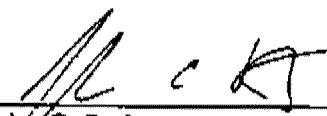
The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the Subject Invention has been submitted to the U.S. Department of Energy.

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.

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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 11th day of June 2015.



John C. Stolpa
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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

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RECORDED: 08/11/2015

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