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CAR **RECORDATION FORM COVER SHEET** **S-126,671**
PATENTS ONLY

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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) July 31, 2014
 Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 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. 14/002,950

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] 4/19/2014
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John D. Cravero #71,245 Total number of pages including cover sheet, attachments, and documents: **2**
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DOE Docket No.: S-126,671

CONFIRMATORY LICENSE

Application for: EFFICIENT BLACK SILICON PHOTOVOLTAIC DEVICES WITH ENHANCED BLUE RESPONSE
Inventor(s): Jihun Oh et al.
Serial No.: 14/002,950
Filing Date: September 13, 2013
Contract No.: DE-AC36-08GO28308
Contractor: Alliance for Sustainable Energy, LLC

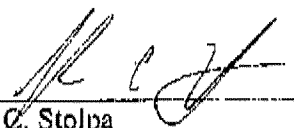
The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the Subject Invention has been submitted to the U.S. Department of Energy.

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 31st day of July 2014.



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

RECORDED: 11/21/2014

PATENT
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