Form PTO-1595 (Rev. 07/05) U.S. DEPARTMENT OF COMMERCE OMB No. 0651-0027 (exp. 6/30/2008) United States Patent and Trademark Office RECORDATION FORM COVER SHEET CAR S-134,976 PATENTS ONLY 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(les) 2. Name and address of receiving party(les) UChicago Argonne, LLC Name: United States Department of Energy Internal Address: Additional name(s) of conveying party(les) attached? Yes 🗸 No 3. Nature of conveyance/Execution Date(s): Street Address: 1000 Independence Ave., S.W. Execution Date(s) March 5, 2015 Assignment Merger Security Agreement City: Washington Change of Name Joint Research Agreement State: D.C. Government Interest Assignment Country: USA Zip: 20585 ✓ Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? ___ Yes 🗸 No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) Serial No. 14/540,393 Additional numbers attached? Yes ✓ No. 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: Involved: 1 Name: Michael J. Dobbs 7. Total fee (37 CFR 1.21(h) & 3.41) \$___ Internal Address: U. S. Dept. of Energy, IPLD Authorized to be charged by credit card Authorized to be charged to deposit account **Enclosed** Street Address: 9800 S. Cass Ave ✓ None required (government interest not affecting title) 8. Payment Information City: <u>Argonne</u> a. Credit Card Last 4 Numbers _____ Zip:60439 State: |L Expiration Date ____ Phone Number: 630-252-2164 b. Deposit Account Number _____ Fax Number: 630-252-2779 Authorized User Name _____ Email Address: Confirmatory.License@ch.doe.gov 9. Signature: Signature John D. Cravero #71,245 Total number of pages including cover

> 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

Name of Person Signing

sheet, attachments, and documents:

REEL: 035774 FRAME: 0060

CONFIRMATORY LICENSE

Title of Invention: METHOD FOR GENERATING METHANE FROM

CARBONACEOUS FEEDSTOCK

Inventors:

Seth W. Snyder, Meltem Urgun Demirtas, Yanwen Shen

Patent Application Serial No.: 14/540,393

Filing Date: November 13, 2014

Patent Number:

Issue Date:

Contractor:

UChicago Argonne, LLC DOE Contract No.: DE-AC02-06CH11357

DOE Case No.: S-134,976

ANL Case No.: ANL-IN-13-047

The Contractor has reported the above-identified invention as a subject invention to DOE and has elected to retain title thereto.

Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up, worldwide license in this subject invention, patent application and any resulting patent, including any continuation, divisional, reissue, or supplemental application thereof, to practice or to have practiced for or on behalf of the United States throughout the world; and of all other rights acquired by the Government by the patent rights clause in the above-identified contract.

It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor, or from asserting any other rights of the Government with respect to the above-identified subject invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 5th day of March, 2015

Contractor Name: UChicago Argonne, LLC

By: Mark D. Hilliard

Chief Patent Counsel

Argonne National Laboratory UChicago Argonne, LLC

> **PATENT** REEL: 035774 FRAME: 0061

RECORDED: 05/18/2015