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Form <b>PTO-1595</b> (Rev. 07/03) OME No. 0651-0027 (exp. 6/30/2008)	U.S. DEPARTMENT OF COMMERCE					
	RECORDATION FORM COVER SHEET S-117,573					
	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(ies) attached?	Street Address: <u>1000 Independence Ave., S.W</u>					
Joint Research Agreement	State: D.C					
Government Interest Assignment	Country: USAZip: 20585					
✓ Executive Order 9424, Confirmatory Licens Other	se					
5. Name and address to whom corresponde						
concerning document should be mailed: Name:Mark P. Dvorscak	involved:_1					
	<b>7. Total fee</b> (37 CFR 1.21(h) & 3.41) \$					
Internal Address: <u>U. S. Dept. of Energy, IP</u>						
Street Address: 9800 S. Cass Ave	<ul> <li>Authorized to be charged to deposit account</li> <li>Enclosed</li> <li>None required (government interest not affecting title)</li> </ul>					
City: <u>Argonne</u>	8. Payment Information					
State:Zip:60439	a. Credit Card Last 4 Numbers					
Phone Number: <u>630-252-2393</u>	Expiration Date					
Fax Number: <u>630-252-2779</u>	b. Deposit Account Number					
Email Address:	Authorized User Name					
9. Signature: The Contract	10/26/2010					
Signate	ure Date					
<u>Michael J. Dobbs_</u> #58.0 Name of Person Signing						
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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

## PATENT REEL: 025195 FRAME: 0104

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## CONFIRMATORY LICENSE

Title of Invention:	DEVICE AND HYDROGEN	METHOD	то	SAMPLE	IMPURITIES	IN
Inventors:	Shabbir Ahmed, Dionissios Papadia	Sheldon H as	ł. D.	Lee, Ron	nesh Kumar, a	and
Patent Application Serial No.: 12/835,614 Filing Date: July 13, 2010						
Patent Number:			lss	ue Date:		
Contractor: UChicago Argonne, LLC DOE Contract No.: DE-AC02-06CH11357 DOE Case No.: S-117,573 ANL Case No.: ANL-IN-08-072						

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 26<sup>th</sup> day of August, 2010

Contractor Name: UChicago Argonne, LLC

Bv:

Mark D. Hilliard Chief Patent Counsel Argonne National Laboratory UChicago Argonne, LLC

RECORDED: 10/26/2010

PATENT REEL: 025195 FRAME: 0105