


Form PTO-1595 (Rev. 07/05)  
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<b>1. Name of conveying party(ies)</b> <u>UChicago Argonne, LLC</u>  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>2. Name and address of receiving party(ies)</b> 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>  Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance/Execution Date(s):</b> Execution Date(s) <u>July 31, 2012</u> <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 _____	<b>4. Application or patent number(s):</b> <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>Serial No. 13/446,072</u>  B. Patent No.(s)  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>Mark P. Dvorscak</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>630-252-2393</u> Fax Number: <u>630-252-2779</u> Email Address: _____	<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$</b> _____ <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)	
<b>8. Payment Information</b> a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number _____ Authorized User Name _____		
<b>9. Signature:</b>  _____ <div style="display: flex; justify-content: space-between;"> <span>Signature</span> <span>Date <u>9/7/2012</u></span> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span>Michael J. Dobbs #58,093 Name of Person Signing</span> <div style="text-align: right;">           Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px 10px;">2</span> </div> </div>		

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## CONFIRMATORY LICENSE

Title of Invention: PROCESS FOR PRODUCING REDOX SHUTTLES

Inventors: Greg Krumdick, Krzysztof Pupek, Trevor L. Dzwiniel

Patent Application Serial No.: 13/446,072

Filing Date: April 13, 2012

Patent Number:

Issue Date:

Contractor: UChicago Argonne, LLC

DOE Contract No.: DE-AC02-06CH11357

DOE Case No.: S-127,344

ANL Case No.: ANL-IN-11-039

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

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

Signed this 31<sup>st</sup> day of July, 2012

Contractor Name: UChicago Argonne, LLC

By: 

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