

Form PTO-1595 (Rev. 07/05)  
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| <b>1. Name of conveying party(ies)</b><br>The Regents of the University of California<br><br>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><br>Name: <u>United States Department of Energy</u><br>Internal Address: _____<br><br>Street Address: <u>1000 Independence Ave., S.W.</u><br><br>City: <u>Washington</u><br>State: <u>D.C.</u><br>Country: <u>USA</u> Zip: <u>20585</u><br><br>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No       |                |
| <b>3. Nature of conveyance/Execution Date(s):</b><br>Execution Date(s) <u>June 13, 2012</u><br><input type="checkbox"/> Assignment <input type="checkbox"/> Merger<br><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name<br><input type="checkbox"/> Joint Research Agreement<br><input type="checkbox"/> Government Interest Assignment<br><input checked="" type="checkbox"/> Executive Order 9424, Confirmatory License<br><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.<br>A. Patent Application No.(s)<br>Serial No. <u>13/493,938</u><br><br>B. Patent No.(s)<br><br>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><br>Name: <u>Mark P. Dvorscak</u><br>Internal Address: <u>U. S. Dept. of Energy, IPLD</u><br><br>Street Address: <u>9800 S. Cass Ave</u><br><br>City: <u>Argonne</u><br>State: <u>IL</u> Zip: <u>60439</u><br>Phone Number: <u>630-252-2393</u><br>Fax Number: <u>630-252-2779</u><br>Email Address: _____   | <b>6. Total number of applications and patents involved:</b> <u>1</u><br><br><b>7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$</b> _____<br><input type="checkbox"/> Authorized to be charged by credit card<br><input type="checkbox"/> Authorized to be charged to deposit account<br><input type="checkbox"/> Enclosed<br><input checked="" type="checkbox"/> None required (government interest not affecting title) |                |
| <b>8. Payment Information</b><br>a. Credit Card Last 4 Numbers _____<br>Expiration Date _____<br><br>b. Deposit Account Number _____<br>Authorized User Name _____  |   |                |
| <b>9. Signature:</b> <u>Michael J. Dobbs</u> <span style="float: right;"><u>9/19/2012</u></span><br><div style="display: flex; justify-content: space-between;"> <span>Signature</span> <span>Date</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>Michael J. Dobbs #58,093<br/>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; font-weight: bold;">2</span> </div> </div> |   |                |

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
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## CONFIRMATORY LICENSE

Title: Useful halophilic, thermostable and ionic liquids tolerant cellulases  
Contractor: The Regents of the University of California  
Contract No: DE-AC02-05CH11231  
LBNL Docket No: EJIB-3028 DOE Docket No.: S-126,932  
Inventor(s): Zhang, Tao; Datta, Supratim; US Patent App No.: 13/493,938  
Simmons, Blake A.; Rubin, Filing Date: 11-Jun-2012  
Edward M. U.S. Patent No.:  
Issue Date:

Foreign patent applications filed or intended to be filed at contractor's expense in (countries):  
(None)

The Contractor certifies that a true copy of the provisions which govern patent rights in "subject inventions" under the above-identified contract is herewith submitted or has been submitted to the U.S. Department of Energy by certification dated October 29, 1996.

WHEREAS, the above-identified contract provides the Contractor with the right to elect to retain title in certain inventions and the Contractor has reported the above-identified invention as a subject invention under the contract, has elected to retain title therein, and has agreed to file a domestic patent application thereon, if not previously filed.

ACCORDINGLY, the Contractor hereby confirms that under the provisions of the above-identified contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world. This license applies to the above-identified invention, the above-identified patent application(s), and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

The Government reserves for itself, and is hereby granted by the Contractor, the irrevocable power to inspect and make copies of the file wrapper(s) of the above-identified U.S. patent application and of any related or continuation patent application(s), whether domestic or foreign, for the above-identified invention.

It is understood and agreed that this instrument does not preclude the Government from asserting rights under the provisions of the above-identified 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.

Signed on behalf of: The Regents of the University of California, Lawrence Berkeley National Laboratory  
(Contractor)

Witnessed:

Sharon Kay Reineman  
(Signature)

By:

Robin C. Chiang  
(Contractor Official's Signature)

June 13, 2012  
(Date)

Sharon Kay Reineman, Admin. Asst.  
(Name and Title)

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PATENT

RECORDED: 09/19/2012

REEL: 029016 FRAME: 0376