

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/30/2008)

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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(ies)
The Regents of the University of California

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

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):
Execution Date(s) June 10, 2016
 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. 15/164,813

Additional numbers attached? Yes No

B. Patent No.(s)

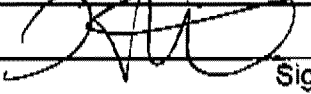
5. Name and address to whom correspondence concerning document should be mailed:
Name: Michael J. Dobbs
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Street Address: 9800 S. Cass Ave

City: Argonne
State: IL Zip: 60439
Phone Number: 630-252-2164
Fax Number: 630-252-2779
Email Address: Confirmatory.License@science.doe.gov

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
a. Credit Card Last 4 Numbers _____
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9. Signature:  8/3/2016
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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-3028A DOE Docket No.: S-

Inventor(s): Tao Zhang, US Patent App No.: 15/164,813
 Supratim Datta, Filing Date: May 25, 2016
 Blake A. Simmons and U.S. Patent No.:
 Edward M. Rubin 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 By: Robin C. Chiang 6/10/16
 (Signature) (Contractor Official's Signature) (Date)

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