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103671768

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

MR

S-130,190

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)

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY  
OFFICE OF LABORATORY COUNSEL AND INNOVATION & PARTNERSHIPS  
OFFICE (IPO)  
ONE CYCLOTRON ROAD, MS 56A-0120  
BERKELEY, CA 94720-8127Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance/Execution Date(s):

Execution Date(s) 11/10/2014

- ☐ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Joint Research Agreement
- ☐ Government Interest Assignment
- ☒ Executive Order 9424, Confirmatory License
- ☐ Other \_\_\_\_\_

## 2. Name and address of receiving party(ies)

Name: United States Department of Energy

Internal Address: \_\_\_\_\_

Street Address: 1000 Independence Ave. S.W.City: WashingtonState: D.C.Country: USA Zip: 20585Additional 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)

14/398,432

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address to whom correspondence concerning document should be mailed:

Name: Michael J. DobbsInternal Address: U. S. Dept. of Energy, IPLDStreet Address: 9800 S. Cass AveCity: ArgonneState: IL Zip: 60439Phone Number: 630-252-2164Fax Number: 630-252-2779Email Address: Confirmatory.License@ch.doe.gov

## 6. Total number of applications and patents involved: 1

## 7. Total fee (37 CFR 1.21(h) &amp; 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 \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

9. Signature: John D. Cravero

Signature

Date

John D. Cravero #71,245

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: **2**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

## CONFIRMATORY LICENSE

Title: Sugar Extraction and Ionic Liquid Recycling Using Alkaline Solutions  
Contractor: The Regents of the University of California  
Contract No: DE-AC02-05CH11231  
LBNL Docket No: EJIB-3117US DOE Docket No.: S-130,190  
Inventor(s): Sun, Ning; US Patent App No.: 14/398,432  
Holmes, Bradley M.; Filing Date: 31-Oct-2014  
Tran, Kim; U.S. Patent No.:  
George, Anthe; Issue Date:  
Simmons, Blake A.

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 11/10/14  
(Signature) (Contractor Official's Signature) (Date)

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

Robin C. Chiang, Ph.D.  
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PATENT