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S-131,831

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)

PRAXAIR TECHNOLOGY, INC.
39 OLD RIDGEBURY ROAD
DANBURY, CT 06810

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Execution Date(s) 04/29/2015

- ☐ 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: Washington

State: D.C.

Country: USA Zip: 20585

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

4. Application or patent number(s):

A. Patent Application No.(s)

14/138,619

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Michael J. Dobbs

Internal Address: U. S. Dept. of Energy, IPLD

Street Address: 9800 S. Cass Ave

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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

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Signature

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John D. Cravero #71,245

Name of Person Signing

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

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PATENT

700517835

REEL: 036343 FRAME: 0499

**Department of Energy**

Office of Science

science.energy.gov/is/services/legal/**CONFIRMATORY LICENSE****OXYGEN TRANSPORT MEMBRANE BASED ADVANCED POWER CYCLE
WITH LOW PRESSURE SYNTHESIS GAS SLIP STREAM**

Title of Invention:

Inventor(s):

KROMER, Brian R. et al.

Patent Application Serial No: 14/138,619

Filing Date 12-23-2013

Patent Number:

Issue Date:

Name of Contractor (i.e. Contractor, Subcontractor, Grant, or Cooperative Agreement, as applicable):

Name of Contractor: PRAXAIR TECHNOLOGY, INC.

DOE Contract No. (i.e. Contract, Subcontract, Grant, or Cooperative Agreement, as applicable):

DE-FC26-07NT43088

DOE Case No.: S-131,831

Contractor Docket No.: 13183-US

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.

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

Signed on: Apr 29, 2014

Contractor Name PRAXAIR TECHNOLOGY, INC.

Official's Name SALVATORE P. PACE

Official's Title VICE PRESIDENT

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PATENT**RECORDED: 08/11/2015****REEL: 036343 FRAME: 0500**