

Form PTO-1595 (Rev. 08/05)  
OMB No. 0651-0027 (exp. 6/30/2008)

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

### RECORDATION FORM COVER SHEET 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)**

Richard John Jibb  
Henry Edward Howard

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

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

Name: PRAXAIR TECHNOLOGY, INC.

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

Street Address: 39 Old Ridgebury Road

City: Danbury

State: CT

Country: USA Zip: 06810

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

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

Execution Date(s) July 14, 2006  
July 17, 2006

- 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.: 11/454,802  
Filed: 6/19/2006

**B. Patent No.(s)**

Additional numbers attached?  Yes  No

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

Name: Joann M. Jelsa

Internal Address: Praxair, Inc.

Street Address: 39 Old Ridgebury Road

City: Danbury

State: CT Zip: 06810

Phone Number: (203) 837-2161

Fax Number: (203) 837-2545

Email Address: joann\_jelsa@praxair.com

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

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

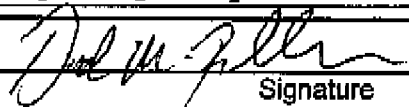
**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 16-2440

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

**9. Signature:**



Signature

8/1/06

Date

David M. Rosenblum, Reg. No. 29,341

Name of Person Signing

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

5

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

CH \$40.00 162440 11454802

JOINT

**ASSIGNMENT OF INVENTION, PRIORITY RIGHTS  
AND RIGHTS TO APPLY FOR PATENTS**

We, the undersigned, Richard John Jibb, Engineer and Citizen of Great Britain, residing at  
209 Robin Road, Amherst, New York 14228 and Henry Edward Howard, Engineer and Citizen of  
the United States of America, residing at 2020 Stony Point Road, Grand Island, New York 14072.

HEREBY STATE UNDER OATH that we are the original, first and true inventors of an  
invention for PLATE-FIN HEAT EXCHANGER HAVING  
APPLICATION TO AIR SEPARATION  
as described and/or claimed in our application for Letters Patent in the United States of America,  
filed on the 19th day of June, 2006, as Serial No. 11/454,802, (Docket No. D-21585).

NOW, THEREFORE, in consideration of our employment by Praxair, Inc. manufacturers, a  
corporation organized and existing under the laws of the State of Delaware, United States of America,  
having an office at 39 Old Ridgebury Road, Danbury, Connecticut 06810-5113, United States of  
America, and in fulfillment of our pre-existing obligation of assignment to our employer;

WE DO HEREBY ASSIGN, TRANSFER AND SELL our entire right, title, and interest in and  
to said invention and application unto

**PRAXAIR TECHNOLOGY, INC.**

technology licensors, a corporation organized and existing under the laws of the State of Delaware,  
United States of America, its successors and nominees, having an office at 39 Old Ridgebury Road,  
Danbury, Connecticut 06810, United States of America and being a wholly owned subsidiary of the said  
Praxair, Inc., as the Assignee, without any restrictions, reservations or limitations, the entire right, title  
and interest in and to the aforesaid application for Letters Patent and all patents which may be granted  
thereon, and all divisions, continuations, continuations-in-part, reissues and extension thereof;

INCLUDING ALL RIGHTS in and to said invention in any country of the world, including, but  
not limited to, all priority rights derived from the aforesaid application for Letters Patent by virtue of the  
International Convention for the Protection of Industrial Property and for any and all member countries  
of the aforesaid International Convention;

AND FURTHER INCLUDING THE SOLE RIGHT to file such applications under the Patent  
Laws of any country of the world in its name and/or ours, and the sole right to have patents granted on  
said applications in its name and/or ours to the full end of the term for which said patents may be granted  
as fully and entirely as the same would have been held by us had this assignment not been made, and to  
enforce said patents with our right to sue in any court of competent jurisdiction and obtain all remedies

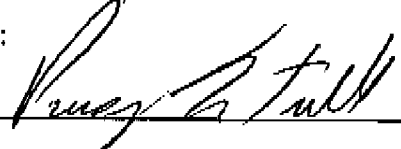
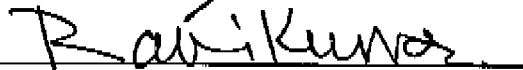
available, including but not limited to injunctions and to recover lost profits or compensatory and enhanced damages and attorneys fee for any and all infringements thereof;

AND AUTHORIZE our attorney of record to insert below in this instrument the serial number and filing date of said application;

AND AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue all patents on said invention resulting therefrom to said PRAXAIR TECHNOLOGY, INC. as Assignee of the entire right, title and interest, and covenant that we have the full right to do so, and agree that we will communicate to said PRAXAIR TECHNOLOGY, INC. or its representatives any facts known to us respecting said invention and testify in legal proceedings, sign all lawful papers, execute all divisional, continuing, continuation-in-part, extensions and reissue applications, make all rightful oaths and generally do everything possible to aid said PRAXAIR TECHNOLOGY, INC. its successors, assigns, or nominees, to obtain and enforce proper protection for said invention in all countries.

SIGNED AND SEALED AT Tonawanda this 17th day of July, 2006.

WITNESSES:

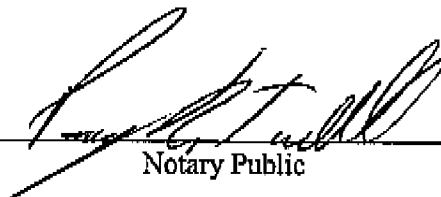
- 1. 
- 2. 

  
RICHARD JOHN JIBB

State New York )  
County of Erie ) ss:

This 17th day of July 2006, before me personally came the above-named **Richard John Jibb** to me personally known as the individual who executed the foregoing assignment, who has acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

PENNY R. TURRELL  
Notary Public, State of New York  
Qualified in Niagara County No. 4842627  
My Commission Expires March 30, 2010

  
Notary Public

SIGNED AND SEALED AT Tomball, Texas this 14th day of July, 2006.

WITNESSES:

- 1. [Signature]
- 2. Ravi Kumar

[Signature]  
HENRY EDWARD HOWARD

State of New York )  
County of Essex ) ss:

This 14th day of July, 2006, before me personally came the above-named **Henry Edward Howard** to me personally known as the individual who executed the foregoing assignment, who has acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

PENNY R. TURHELL  
Notary Public, State of New York  
Qualified in New York County No. 4342627  
My Commission Expires March 30, 2007

[Signature]  
Notary Public

SIGNED AND SEALED AT \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESSES:

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss:

This \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named \_\_\_\_\_ to me personally known as the individual who executed the foregoing assignment, who has acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

\_\_\_\_\_  
Notary Public

ACCEPTANCE

WE, the undersigned, PRAXAIR TECHNOLOGY, INC. of 39 Old Ridgebury Road, Danbury, Connecticut 06810, United States of America, do hereby declare that we have accepted the foregoing assignment.

Danbury, Connecticut, U.S.A. August 1, 2006

PRAXAIR TECHNOLOGY, INC.

Christina Mammen  
Witness:

By: Joann M. Jelsa  
Joann M. Jelsa  
Authorized Agent

Margaret Handy  
Witness:

The application identified above as Docket No. 21585 was filed in the United States Patent and Trademark Office on June 19, 2006 and was given Serial Number 11/454,802.

This insertion was made by me this 1st day of August, 2006.

David M. Rosenblum  
David M. Rosenblum  
Reg. No. 29,341  
Attorney For Applicants