

Form PTO-1595 (Rev. 03/05)  
OMB No. 0651-0027 (exp. 6/30/2005)

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)**  
Vijayaraghavan Srinivasan Chakravarthy,  
Richard John Jibb, Michael James  
Lockett and John Henri Royal

**2. Name and address of receiving party(ies)**  
Name: PRAXAIR TECHNOLOGY, INC.  
Internal Address: \_\_\_\_\_

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

**3. Nature of conveyance/Execution Date(s):**  
Execution Date(s) June 9, 13, 14, 2005

Street Address: 39 Old Ridgebury Road

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

City: Danbury  
State: CT  
Country: USA Zip: 06810-5113

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

**4. Application or patent number(s):**  
A. Patent Application No.(s)  
Serial No. 11/154,630  
Filed: 6/17/2005

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:**

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

Name: Joann M. Jelsa  
Internal Address: Praxair, Inc.  
Law Department - M1557

- 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)

Street Address: 39 Old Ridgebury Road

City: Danbury  
State: CT Zip: 06810-5113

**8. Payment Information**

Phone Number: (203) 837-2161  
Fax Number: (203) 837-2545  
Email Address: joann\_jelsa@praxair.com

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
b. Deposit Account Number 16-2440  
Authorized User Name \_\_\_\_\_

**9. Signature:** Stanley Ktorides  
Signature

JULY 5, 2005  
Date

Stanley Ktorides, Reg. No. 29,399  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5996, 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 11154630

JOINT

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

We, the undersigned, Vijayaraghavan Srinivasan Chakravarthy, Engineer and Citizen of the  
United States of America, residing at 99 Kingsview Road, Williamsville, New York 14221-1719;  
Richard John Jibb, Engineer and Citizen of the United Kingdom, residing at 209 Robin Road,  
Amherst, New York 14228; Michael James Lockett, Engineer and Citizen of the United States of  
America, residing at 2133 Ferry Road, Grand Island, New York 14072 and John Henri Royal,  
Engineer and Citizen of the United States of America, residing at 102 Settlers Row, Grand  
Island, New York 14072.

HEREBY STATE UNDER OATH that we are the original, first and true inventors of an invention for CRYOGENIC AIR SEPARATION WITH ONCE-THROUGH MAIN CONDENSER as described and/or claimed in our application for Letters Patent in the United States of America, executed on the 9<sup>th</sup> + 13<sup>th</sup> day of JUNE, 2005, (Docket No. D-21484).

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 9th day of June, 2005.

WITNESSES:

1. [Signature] [Signature]  
VIJAYARAGHAVAN SRINIVASAN CHAKRAVARTHY

State New York )  
County of Eric ) ss:

This 9th day of June 2005, before me personally came the above-named Vijayaraghavan Srinivasan Chakravarthi 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.

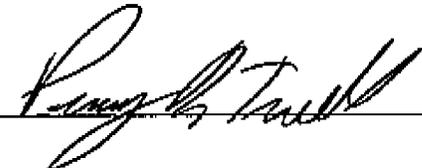
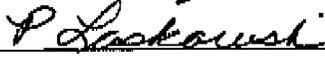
[Signature]  
Notary Public

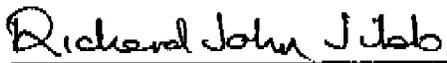
PENNY R. TURRELL  
Notary Public, State of New York  
Qualified in Niagara County No. 4842627  
My Commission Expires March 30, 2006

SIGNED AND SEALED AT Tonawanda this 14th

day of June, 2005.

WITNESSES:

- 1. 
- 2. 

  
RICHARD JOHN JIBB

State of New York )  
County of Errie ) ss:

This 14th day of June, 2005, 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.

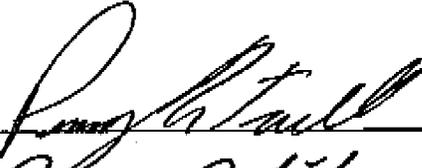
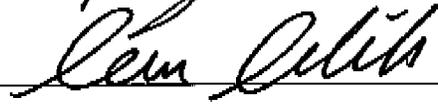
PENNY R. TURRELL  
Notary Public, State of New York  
Qualified in Niagara County No. 4842627  
My Commission Expires March 30, 2006

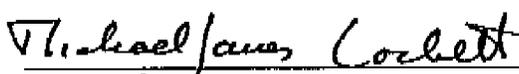
  
Notary Public

SIGNED AND SEALED AT Tonawanda this 9th

day of June, 2005.

WITNESSES:

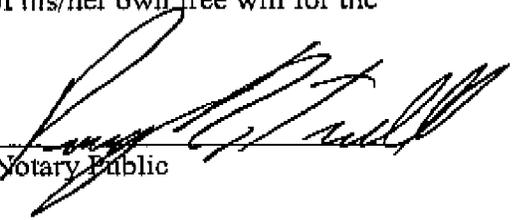
- 1. 
- 2. 

  
MICHAEL JAMES LOCKETT

State of New York )  
County of Errie ) ss:

This 9th day of June, 2005, before me personally came the above-named Michael James Lockett 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, 2006

  
Notary Public

SIGNED AND SEALED AT Tonawanda this 13<sup>th</sup> day of June, 2005.

WITNESSES:

1. [Signature]

2. [Signature]

[Signature]  
JOHN HENRI ROYAL

State of New York )  
County of Erie ) ss:

This 13<sup>th</sup> day of June, 2005, before me personally came the above-named John Henri Royal 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, 2006

[Signature]  
Notary Public

SIGNED AND SEALED AT \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

WITNESSES:

1. \_\_\_\_\_

2. \_\_\_\_\_

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

This \_\_\_\_\_ day of \_\_\_\_\_, 2005, 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. July 5, 2005

PRAXAIR TECHNOLOGY, INC.

Christina Nimmers  
Witness:

By: Joann M Jelsa  
Joann M. Jelsa  
Authorized Agent

Margaret Hardy  
Witness:

The application identified above as Docket No. 21484 was filed in the United States Patent and Trademark Office on June 17, 2005 and was given Serial Number 11/154,630.

This insertion was made by me this 5<sup>th</sup> day of July, 2005.

Stanley Ktonides  
Stanley Ktonides  
Reg. No. 29,399  
Attorney For Applicants