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

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Richard J. Jibb

7.30.03

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:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Street Address: 39 Old Ridgebury Road

City: Danbury State: CT Zip: 06810

Execution Date: July 7, 2003

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

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

Serial No. 10/615,914

Filing Date: 7/10/03

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Joann M. Jelsa

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

Praxair, Inc.

Law Department - M1 557

Street Address: 39 Old Ridgebury Road

City: Danbury State: CT Zip: 06810

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

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

16-2440

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Stanley Ktorides, Reg. No. 29,399

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: ☒ 4

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Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 014334 FRAME: 0455

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

I, the undersigned, Richard J. Jibb, Engineer and Citizen of Great Britain, residing at  
209 Robin Road, Amherst, New York 14228,

HEREBY STATE UNDER OATH that I am the original, first and true inventor of an invention for  
METHOD FOR PROVIDING REFRIGERATION USING CAPILLARY PUMPED LIQUID

as described and/or claimed in my application for Letters Patent in the United States of America,  
executed on the 7 day of July, 2003, (Docket No. D-21350).

NOW, THEREFORE, in consideration of my 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 my pre-existing obligation of assignment to my employer,

I DO HEREBY ASSIGN, TRANSFER AND SELL my 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 mine, and the sole right to have patents granted on said applications in its name and/or mine 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 me had this assignment not been made, and to enforce said patents with my 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 my 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 I have the full right so to do, and agree that I will communicate to said PRAXAIR TECHNOLOGY, INC. or its representatives any facts known to me 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, NY this 7  
day of July, 2003.

WITNESSES:

1. Julie A. Demmin
2. Arun Arora

Richard J. Jibb  
RICHARD J. JIBB

State of New York )  
County of Erie ) ss:

This 7 day of July, 2003, before me personally came the above-named Richard J. 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.

(Seal)

Julie A. Demmin  
Notary Public  
JULIE A. DEMMIN  
Notary Public, State of New York  
Qualified in Erie County  
My Commission Expires 4/5/07

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 29, 2003

(Seal)

PRAXAIR TECHNOLOGY, INC.

Christina Mommens

Witness:

Paul R. Gaudner

Witness:

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

The application identified above as Docket No. D-21350 was filed in the United States Patent and Trademark Office on July 10, 2003 and was given Serial Number 10/615,914.

This insertion was made by me this 29th day of July, 2003

Stanley Klorides  
Stanley Klorides  
Reg. No. 29,399  
Attorney For Applicant