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OMB No. 0651-0027 (exp. 5/31/2002)

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Tab settings ⇨ ⇨ ⇨

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

1. Name of conveying party(ies):

Bayram Arman, James J. Volk,
Steve A. Richards, M. Mushtaq Ahmed,
Arun AcharyaAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

April 29, 2004

Execution Date: May 3, 4 & 6, 2004

2. Name and address of receiving party(ies)

Name: PRAXAIR TECHNOLOGY, INC.

Internal Address: _____

Street Address: 39 Old Ridgebury RoadCity: Danbury State: CT Zip: 06810Additional 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. 10/847,342

Filed: 5/18/04

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 557Street Address: 39 Old Ridgebury RoadCity: Danbury State: CT Zip: 068106. Total number of applications and patents involved: 17. 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)

DO NOT USE THIS SPACE

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

Stanley Ktorides
Signature5-26-04

Date

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

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

06/03/2004 870H11 00000011 162440 10047342

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PATENT
REEL: 015396 FRAME: 0879

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

We, the undersigned, Bayram Arman, Engineer and Citizen of the United States of America,
residing at 16 The Commons, Grand Island, New York 14072; James J. Volk, Engineer and Citizen of
the United States of America, residing at 4384 Homestead Lane, Clarence, New York 14031;
Steve A. Richards, Engineer and Citizen of the United States of America, residing at 5 Bartle Road,
Somerset, New Jersey 08873; M. Mushtaq Ahmed, Engineer and Citizen of the United States of America,
residing at 22 Widewaters Lane, Pittsford, New York 14534 and Arun Acharya, Engineer and Citizen
of the United States of America, residing at 85 Twilight Lane, East Amherst, New York 14051,

HEREBY STATE UNDER OATH that we are the original, first and true inventors of an invention
 for METHOD FOR OPERATING A CRYOCOOLER USING ON
LINE CONTAMINANT MONITORING
 as described and/or claimed in our application for Letters Patent in the United States of America,
 executed on the 29th DAY OF APRIL + 3, 4th 6th days of MAY, 2004, (Docket No. D-21417).

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 so to do, 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, NY this 29
day of April, 2004.

WITNESSES:

1. M. Mushleg Ahmed
2. Julie A. Demmin

Bayram Arman
BAYRAM ARMAN

State New York)
County of Erie) ss:

This 29 day of April, 2004, before me personally

came the above-named Bayram Arman
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

SIGNED AND SEALED AT Tonawanda, NY this 4

day of May, 2004.

WITNESSES:

1. Julie A. Demmin
2. Ann Achange

James J. Volk
JAMES J. VOLK

State of New York)
County of Erie) ss:

This 4 day of May, 2004, before me personally came the

above-named James J. Volk

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

SIGNED AND SEALED AT Leasburg NJ this 6th

day of MAY, 2004.

WITNESSES:

1. Steve A. Richards
2. Susan M. Richards

Steve A. Richards
STEVE A. RICHARDS

State of New Jersey)
County of Middlesex) ss:

This 6th day of MAY, 2004, before me personally came the

above-named Steve A. Richards

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)

Alan M. Duva
Notary Public

ALAN M. DUVA
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Dec. 23, 2008

SIGNED AND SEALED AT Tonawanda, NY this 3

day of May, 2004.

WITNESSES:

1. Julie A. Dammin
2. Arun Acharya

M. Mushtaq Ahmed
M. MUSHTAQ AHMED

State of New York)
County of Erie) ss:

This 3 day of May, 2004, before me personally came the

above-named M. Mushtaq Ahmed
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. Dammin
Notary Public
Notary Public, State of New York
Qualified in Erie County
My Commission Expires 4/5/07

SIGNED AND SEALED AT Tonawanda, NY this 3

day of May, 2004.

WITNESSES:

1. M. Mushtaq Ahmed
2. Julie A. Dammin

Arun Acharya
ARUN ACHARYA

State of New York)
County of Erie) ss:

This 3 day of May, 2004, before me personally came the

above-named Arun Acharya
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. Dammin
Notary Public
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. May 26, 2004

(Seal)

PRAXAIR TECHNOLOGY, INC.

Christina Tommens
Witness:

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

Janet Miller
Witness:

The application identified above as Docket No. D-21417 was filed in the United States Patent and Trademark Office on May 18, 2004 and was given Serial Number 10/847,342.

This insertion was made by me this 26th day of May, 2004.

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

AssignmentPTI.doc