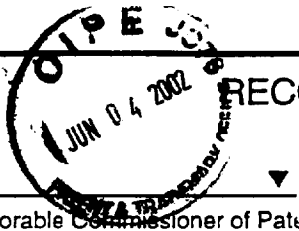


Modified



06-11-2002

HEET From:

PRAXAIR TECHNOLOGY, INC.

To the Honorable Commissioner of Pat.

102118158

ched original documents or copy thereof.

1. Name of conveying party(ies):

Bernard Thomas Neu
James Smolarek
Mark Thomas Emley

6-4-02

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

2. Name and address of receiving party(ies)

PRAXAIR TECHNOLOGY, INC.
39 Old Ridgebury Road
Danbury, CT. 06810-5113
United States of America

3. Nature of conveyance:

☒ Assignment

Execution Date: April 22, 23, 2002

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)

B. Patent No.(s)

S.N. 10/135,562

Filed 5/1/02

Additional numbers attached? ☐ Yes ☒ No

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

Miss Joann M. Jelsa
PRAXAIR, INC.
Law Department - M1 557
39 Old Ridgebury Road
Danbury, CT. 06810-5113

6. Total number of applications and patents involved:

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

☒ Authorized to be charged to deposit account

8. Deposit account number:

16-2440

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

06/11/2002 GTOW11 00000040 162440 10135562

01 FC:581 40.00 CH

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.

Robert J. Follett

Name of Person Signing

Robert J. Follett

Signature

5/31/02

Date

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

5

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

We, the undersigned, Bernard Thomas Neu, James Smolarek and Mark Thomas Emley, all
Engineers, all Citizens of the United States of America, residing at 10 Fernott Drive, Lancaster, NY
14086, 6696 Liebler Rd., Boston, NY 14025 and 9208 South Hill Rd., Boston, NY 14205 respectively.

HEREBY STATE UNDER OATH that we are the original, first and true inventors of an invention
 for RADIAL ADSORPTION GAS SEPARATION APPARATUS AND METHOD OF USE

as described and/or claimed in our application for Letters Patent in the United States of America,

executed on the 22 + 23 day of April, 2002, (Docket No. D-20877).

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 23
day of April, 2002.

WITNESSES:

1. Julie A. Demmin
2. Ann A. Hauge

Bernard Thomas Neu
BERNARD THOMAS NEU

State New York)
County of Erie) ss:

This 23 day of April, 2002, before me personally
came the above-named Bernard Thomas Neu 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 4/5/03

SIGNED AND SEALED AT Tonawanda, NY this 23

day of April, 2002.

WITNESSES:

- 1. Julie A. Demmin
- 2. Ann A. Chang

James Smolarek
JAMES SMOLAREK

State of New York)
County of Erie) ss:

This 23 day of April, 2002, before me personally came the
above-named James Smolarek 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 4/5/03

SIGNED AND SEALED AT Tonawanda, NY this 22

day of April, 2002.

WITNESSES:

- 1. Julie A. Demmin
- 2. Ann A. Chang

Mark Thomas Emley
MARK THOMAS EMLEY

State of New York)
County of Erie) ss:

This 22 day of April, 2002, before me personally came the
above-named Mark Thomas Emley 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 4/5/03

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 31, 2002

(Seal) PRAXAIR TECHNOLOGY, INC.

Margaret Hardy
Witness:

Christina Nozmen
Witness:

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

The application identified above as Docket No. D-20877 was filed in the United States Patent and Trademark Office on May 1, 2002 and was given Serial Number 10/135,562.

This insertion was made by me this 31st day of May, 2002.

Robert J. Follett
Robert J. Follett
Reg. No. 39,566
Attorney For Applicants

AssignmentPT1.doc