



09-26-2002

Form PTO-1595 (Rev. 03/01)

RECO



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

Tab settings

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

1. Name of conveying party(ies):
 John Fredric Billingham
 Jerry Michael Mahl
 G. 70.08

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 Zip: 06810
 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 August 26, 2002
 Execution Date: September 9, 2002

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. 10/174,819
 Filed: 6/20/02

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)

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, Reg. No. 39,566 Robert J. Follett 9/18/02
 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 5

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

09/25/2002 GT0N11 00000225 162440 10174819
01 FC:581 40.00 CH

PATENT REEL: 013313 FRAME: 0768

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

We, the undersigned, , John Fredric Billingham, an Engineer and Citizen of the United Kingdom,
residing at 19 Daven Drive, Getzville, NY 14068 and Jerry Michael Mahl, a Technician and Citizen of
the United States of America, residing at 15 Porter Center Ext., Youngstown, Wilson, NY 14174

HEREBY STATE UNDER OATH that we are the original, first and true inventors of an invention
for PROCESS AND SYSTEM FOR PURIFYING GASES

as described and/or claimed in our application for Letters Patent in the United States of America,
executed on the 26 + 9 day of Aug. + Sept, 2001, (Docket No. D-21142).

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 26 day of August, 2002

WITNESSES:

- 1. Julie A. Demmin
- 2. Hum Achariya

John Fredric Billingham
 JOHN FREDRIC BILLINGHAM

State New York)
 County of Erie) ss:

This 26 day of August, 2002 before me personally came the above-named John Frederic Billingham 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.

Julie A. Demmin
 Notary Public

(Seal)

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 9

day of Sept., 2002

WITNESSES:

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

Jerry Michael Mahl
 JERRY MICHAEL MAHL

State of New York)
) ss:
 County of Erie)

This 9 day of Sept., 2002, before me personally came the above-named Jerry Michael Mahl 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.

Julie A. Demmin
 Notary Public
JULIE A. DEMMIN
 Notary Public, State of New York
 Qualified in Erie County
 My Commission Expires 4/5/03

(Seal)

SIGNED AND SEALED AT _____ this _____

day of _____, 2002

WITNESSES:

- 1. _____
- 2. _____

State of _____)
) ss:
 County of _____)

This _____ day of _____, 2002 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

(Seal)

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. September 17, 2002

(Seal)

PRAXAIR TECHNOLOGY, INC.

Christina Mommen
Witness:
Christine Carretta
Witness:

By: [Signature]
Robert G. Hohenstein
Authorized Agent

The application identified above as Docket No. D-21142 was filed in the United States Patent and Trademark Office on June 20, 2002 and was given Serial Number 10/174,819.

This insertion was made by me this 17th day of September, 2002.

[Signature]
Robert J. Follett
Attorney for Applicants
Reg. No. 39,566

AssignmentPTI.doc