

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 70%;">Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>John Fredric Billingham</td><td>08/26/2002</td></tr><tr><td>Jerry Michael Mahl</td><td>09/09/2002</td></tr></tbody></table>		Name	Execution Date	John Fredric Billingham	08/26/2002	Jerry Michael Mahl	09/09/2002
Name	Execution Date						
John Fredric Billingham	08/26/2002						
Jerry Michael Mahl	09/09/2002						
RECEIVING PARTY DATA							
Name:	Praxair Technology, Inc.						
Street Address:	39 Old Ridgebury Road						
City:	Danbury						
State/Country:	CONNECTICUT						
Postal Code:	06810						
PROPERTY NUMBERS Total: 1							
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;">Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11483105</td></tr></tbody></table>		Property Type	Number	Application Number:	11483105		
Property Type	Number						
Application Number:	11483105						
CORRESPONDENCE DATA							
Fax Number:	(203)837-2545						
Phone:	203-837-2253						
Email:	Ruth_Schreiber@Praxair.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	Praxair, Inc.						
Address Line 1:	39 Old Ridgebury Road						
Address Line 4:	Danbury, CONNECTICUT 06810						
ATTORNEY DOCKET NUMBER:	21142-D1						
NAME OF SUBMITTER:	Ruth A. Schreiber						
Total Attachments: 4 source=21142-D1_EXEC_ASSIGN#page1.tif source=21142-D1_EXEC_ASSIGN#page2.tif source=21142-D1_EXEC_ASSIGN#page3.tif source=21142-D1_EXEC_ASSIGN#page4.tif							

CH \$40.00 11483105

JOINT

**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, 2002, (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;

PATENT
REEL: 027003 FRAME: 0826

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

John Fredric Billingham
JOHN FREDRIC BILLINGHAM

2. Arum Acharya

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. Anne Achange

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

(Seal)

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

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 Momen
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