



10-24-2002



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Form PTO-1595  
(Rev. 03/01)

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

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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):

Minish Mahendra Shah, Lawrence E.  
Bool, III, David Richard Thompson,  
Christian Friedrich Gottzmann  
and Hisashi Kobayashi

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

3. Nature of conveyance:

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

September 30, 2002

Execution Date: October 1, 7, & 10, 2002

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

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. 10/183,493

Filed: 6/28/02

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.

David M. Rosenblum, Reg. No. 29,341

Name of Person Signing

Signature

10/12/02  
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

10/23/2002 TDIAZI 00000154 162440 10183493

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40.00 CH

PATENT  
REEL: 013404 FRAME: 0558

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

We, the undersigned, Minish Mahendra Shah, Engineer and Citizen of India, residing at  
84 South Castlerock Lane, East Amherst, New York 14051; Lawrence E. Bool, III, Engineer and  
Citizen of the United States of America, residing at 95 Fishkill Hook Road, Hopewell Junction,  
New York 12533; David Richard Thompson, Engineer and Citizen of the United States of  
America, residing at 154 Fairview Court, Grand Island, New York 14072; Christian Friedrich  
Gottzmann, Engineer and Citizen of the United States of America, residing at 5308 Thompson Road,  
Clarence, New York 14031 and Hisashi Kobayashi, Engineer and Citizen of Japan, residing at 170  
Barger Street, Putnam Valley, New York 10579,

HEREBY STATE UNDER OATH that we are the original, first and true inventors of an invention for

FIRING METHOD FOR A HEAT CONSUMING DEVICE UTILIZING OXY-FUEL COMBUSTION  
as described and/or claimed in our application for Letters Patent in the United States of America,

executed on the 30<sup>th</sup>, 7<sup>th</sup>, 10 day of Sept + Oct, 2002, (Docket No. D-21159).

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 30  
day of Sept, 2002.

WITNESSES:

1. Julie A. Demmin
2. Minish Mahendra Shah

Minish Mahendra Shah  
MINISH MAHENDRA SHAH

State New York )  
County of Erie ) ss:

This 30 day of Sept., 2002, before me personally

came the above-named Minish Mahendra Shah  
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 7

day of Oct., 2002.

WITNESSES:

1. Julie A. Demmin
2. Ann A. Hange

Lawrence E. Bool  
LAWRENCE E. BOOL, III

State of New York )  
County of Erie ) ss:

This 7 day of Oct., 2002, before me personally came the

above-named Lawrence E. Bool, III

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 4/15/03

SIGNED AND SEALED AT Tonawanda, NY this 30

day of Sept., 2002.

WITNESSES:

1. Julie A. Demmin
2. Ann A. Hange

David Richard Thompson  
DAVID RICHARD THOMPSON

State of New York )  
County of Erie ) ss:

This 30 day of Sept., 2002, before me personally came the

above-named David Richard Thompson

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 4/15/03

SIGNED AND SEALED AT Tonawanda, NY this 1

day of Oct., 2002.

WITNESSES:

1. John H. Royal  
2. Julie A. Demmin

Christian Friedrich Gottmann  
CHRISTIAN FRIEDRICH GOTTMANN

State of New York )  
County of Erie ) ss:

This 1 day of Oct., 2002, before me personally came the

above-named Christian Friedrich Gottmann  
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 10

day of Oct., 2002.

WITNESSES:

1. John H. Royal  
2. Julie A. Demmin

Hisashi Kobayashi  
HISASHI KOBAYASHI

State of New York )  
County of Erie ) ss:

This 10 day of Oct., 2002, before me personally came the

above-named Hisashi Kobayashi  
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. October 17, 2002

(Seal)

PRAXAIR TECHNOLOGY, INC.

Christina Nomen  
Witness:

By: [Signature]  
Robert G. Hohenstein  
Authorized Agent

Margaret Hardy  
Witness:

The application identified above as Docket No. D-21159 was filed in the United States Patent and Trademark Office on June 28, 2002 and was given Serial Number 10/183,493.

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

[Signature]  
David M. Rosenblum  
Reg. No. 29,341  
Attorney For Applicants

AssignmentPTI.doc