

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Lawrence E. Bool III	06/17/2005
Chien-Chung Chao	06/06/2005
Mark K. Weise	06/21/2005
Jurron L.D. Bradley	06/03/2005

**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**

Property Type	Number
Application Number:	12732813

**CORRESPONDENCE DATA**

Fax Number: (203)837-2545  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 203-837-2253  
 Email: Praxair\_IP@Praxair.com  
 Correspondent Name: Praxair, Inc.  
 Address Line 1: 39 Old Ridgebury Road  
 Address Line 4: Danbury, CONNECTICUT 06810

ATTORNEY DOCKET NUMBER:	21463-CIP-D1
NAME OF SUBMITTER:	Ruth A. Schreiber

Total Attachments: 5  
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**PATENT  
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JOINT

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

We, the undersigned, Lawrence E. Bool III, an Engineer; Chien-Chung Chao, a Chemist; Mark K. Weise, an Engineer; and Jurron L.D. Bradley, an Engineer; all Citizens of the United States of America; residing at 5420 Hunters Creek Rd., East Aurora, NY 14052; 2220 Northwood Drive, Williamsville, NY 14221; 105 Alexander Way, Orchard Park, NY 14127 and 52 Linwood Avenue, Buffalo, NY 14209, respectively.

HEREBY STATE UNDER OATH that we are the original, first and true inventors of an invention for PRODUCTION OF ACTIVATED CHAR USING HOT GAS

as described and/or claimed in our application for Letters Patent in the United States of America, filed on the 14th day of March, 2005, as Serial No. 11/078,517, (Docket No. D-21463).

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 this 17th day of June, 2005

WITNESSES:

1. [Signature]  
2. [Signature]

Lawrence E. Bool III  
LAWRENCE E. BOOL III

State New York )  
County of Erie ) ss:

PENNY R. TURRELL  
Notary Public, State of New York  
Qualified in Niagara County No. 4842627  
My Commission Expires March 30, 2006

This 17th day of June, 2005, 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.

[Signature]  
Notary Public

PENNY R. TURRELL  
Notary Public, State of New York  
Qualified in Niagara County No. 4842627  
My Commission Expires March 30, 2005

SIGNED AND SEALED AT Tonawanda this 6th

day of June, 2005.

WITNESSES:

1. [Signature] [Signature]

CHIEN-CHUNG CHAO

2. [Signature]

State of New York)

County of Erie)

ss:

This 6th day of June, 2005, before me personally came the above-named Chien-Chung Chao 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.

PENNY R. TURRELL  
Notary Public, State of New York  
Qualified in Niagara County, No. 4842627  
My Commission Expires March 30, 2006  
[Signature]  
Notary Public

SIGNED AND SEALED AT Tonawanda this 21st

day of June, 2005.

WITNESSES:

1. [Signature] [Signature]

MARK K. WEISE

2. [Signature]

State of New York)

County of Erie)

ss:

This 21st day of June, 2005, before me personally came the above-named Mark K. Weise 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.

PENNY R. TURRELL  
Notary Public, State of New York  
Qualified in Niagara County, No. 4842627  
My Commission Expires March 30, 2006  
[Signature]  
Notary Public

SIGNED AND SEALED AT Tonawanda this 3rd

day of June, 20 05.

WITNESSES:

1. [Signature]  
2. [Signature]

[Signature]  
JURRON L.D. BRADLEY

State of New York )  
County of Erie ) ss:

This 3rd day of June, 20 05, before me personally came the above-named Jurron L.D. Bradley 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.

[Signature]  
Notary Public

PENNY R. TURRELL  
Notary Public, State of New York  
Qualified in Niagara County No. 4842627  
My Commission Expires March 30, 2006

**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. July 26, 2005

PRAXAIR TECHNOLOGY, INC.

Margaret Hardy  
Witness

Christina Mammens  
Witness:

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

The application identified above as Docket No. D-21463 was filed in the United States Patent and Trademark Office on March 14, 2005 and was given Serial Number 11/078,517.

This insertion was made by me this 26th day of July, 2005.

Mary Raynor Jimenez  
Attorney For Applicant  
Mary Raynor Jimenez  
Reg. No. 37219