

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                              | NEW ASSIGNMENT           |               |                          |                     |                       |               |            |                |             |              |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|--------------------------|---------------------|-----------------------|---------------|------------|----------------|-------------|--------------|-------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                         | ASSIGNMENT               |               |                          |                     |                       |               |            |                |             |              |       |
| CONVEYING PARTY DATA                                                                                                                                                                                                                                                                                          |                          |               |                          |                     |                       |               |            |                |             |              |       |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>John Billingham</td> <td>02/24/2011</td> </tr> <tr> <td>Guang X. Chen</td> <td>02/24/2011</td> </tr> </tbody> </table>                                                                                  |                          | Name          | Execution Date           | John Billingham     | 02/24/2011            | Guang X. Chen | 02/24/2011 |                |             |              |       |
| Name                                                                                                                                                                                                                                                                                                          | Execution Date           |               |                          |                     |                       |               |            |                |             |              |       |
| John Billingham                                                                                                                                                                                                                                                                                               | 02/24/2011               |               |                          |                     |                       |               |            |                |             |              |       |
| Guang X. Chen                                                                                                                                                                                                                                                                                                 | 02/24/2011               |               |                          |                     |                       |               |            |                |             |              |       |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                          |                          |               |                          |                     |                       |               |            |                |             |              |       |
| <table border="1"> <tr> <td>Name:</td> <td>PRAXAIR TECHNOLOGY, INC.</td> </tr> <tr> <td>Street Address:</td> <td>39 Old Ridgebury Road</td> </tr> <tr> <td>City:</td> <td>Danbury</td> </tr> <tr> <td>State/Country:</td> <td>CONNECTICUT</td> </tr> <tr> <td>Postal Code:</td> <td>06810</td> </tr> </table> |                          | Name:         | PRAXAIR TECHNOLOGY, INC. | Street Address:     | 39 Old Ridgebury Road | City:         | Danbury    | State/Country: | CONNECTICUT | Postal Code: | 06810 |
| 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"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13981924</td> </tr> </tbody> </table>                                                                                                                                     |                          | Property Type | Number                   | Application Number: | 13981924              |               |            |                |             |              |       |
| Property Type                                                                                                                                                                                                                                                                                                 | Number                   |               |                          |                     |                       |               |            |                |             |              |       |
| Application Number:                                                                                                                                                                                                                                                                                           | 13981924                 |               |                          |                     |                       |               |            |                |             |              |       |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                                           |                          |               |                          |                     |                       |               |            |                |             |              |       |
| Fax Number: 2038372545<br><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i><br>Phone: (203) 837-2292<br>Email: Praxair_IP@Praxair.com<br>Correspondent Name: Praxair, Inc.<br>Address Line 1: 39 Old Ridgebury Road<br>Address Line 4: Danbury, CONNECTICUT 06810          |                          |               |                          |                     |                       |               |            |                |             |              |       |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                       | 13119-WO-US              |               |                          |                     |                       |               |            |                |             |              |       |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                            | ToniAnn Fonte            |               |                          |                     |                       |               |            |                |             |              |       |
| Signature:                                                                                                                                                                                                                                                                                                    | /toniann fonte/          |               |                          |                     |                       |               |            |                |             |              |       |
| Date:                                                                                                                                                                                                                                                                                                         | 08/26/2013               |               |                          |                     |                       |               |            |                |             |              |       |
| Total Attachments: 3<br>source=13119-P1_EXECUTED_ASSIGNMENT_2-24-2011#page1.tif<br>source=13119-P1_EXECUTED_ASSIGNMENT_2-24-2011#page2.tif<br>source=13119-P1_EXECUTED_ASSIGNMENT_2-24-2011#page3.tif                                                                                                         |                          |               |                          |                     |                       |               |            |                |             |              |       |

CH \$40.00 13981924

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

We, the undersigned,

| <u>NAME</u>     | <u>RESIDING AT</u>                            | <u>OCCUPATION</u>         | <u>CITIZENSHIP</u> |
|-----------------|-----------------------------------------------|---------------------------|--------------------|
| John Billingham | 19 Daven Drive<br>Getzville, NY 14068         | R&D Director              | USA                |
| Guang X. Chen   | 235 Viscount Drive<br>Williamsville, NY 14221 | R&D Associate<br>Director | USA                |

believing that we are the original, first and true inventors of an invention for:

## **DISTILLATION METHOD AND STRUCTURED PACKING**

as described and/or claimed in our application for Letters Patent in the United States of America,  
filed on January 27, 2011 (Serial No. 61/436,699, Attorney Docket No. 13119-P1).

NOW, THEREFORE, for good and valuable consideration, the receipt of which is acknowledged  
and in fulfillment of our pre-existing obligations of assignment;

WE DO HEREBY ASSIGN AND TRANSFER our entire right, title, and interest in and to said  
invention and application unto

### **PRAXAIR TECHNOLOGY, INC.**

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, 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 applications claiming priority thereof including 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;

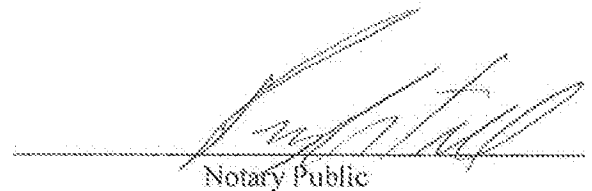
AND we authorize insertion of the appropriate identification information above and agree that we will communicate to said PRAXAIR TECHNOLOGY, INC. or its representatives any facts known to us respecting said invention and testify in legal proceedings, sign all lawful papers, execute all divisional, continuing, 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 Tenawanda this 24th  
day of February, 2011.

  
JOHN BILLINGHAM

State of New York )  
County of Franklin ) ss:

This 24th day of February, 2011, before me personally came the above-named John 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.

  
Notary Public

PENNY R. TURRELL  
Notary Public, State of New York  
Qualified in Niagara County No. 4842677  
My Commission expires March 30, 2014

SIGNED AND SEALED AT Tonawanda this 24th  
day of February, 2011.

Guang X. Chen  
GUANG X. CHEN

State of New York )  
County of Erie ) ss:

This 24th day of February, 2011, before me personally came the  
above-named **Guang X. Chen** 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

