

## 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>PEDRO BERGES</td> <td>07/03/2013</td> </tr> <tr> <td>PAUL WILLIAM BELANGER</td> <td>07/03/2013</td> </tr> <tr> <td>TIM AARON</td> <td>07/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	PEDRO BERGES	07/03/2013	PAUL WILLIAM BELANGER	07/03/2013	TIM AARON	07/03/2013		
Name	Execution Date										
PEDRO BERGES	07/03/2013										
PAUL WILLIAM BELANGER	07/03/2013										
TIM AARON	07/03/2013										
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>13934263</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13934263						
Property Type	Number										
Application Number:	13934263										
CORRESPONDENCE DATA											
Fax Number: 2038372515 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: (203) 837-2288 Email: PRAXAIR_IP@PRAXAIR.COM Correspondent Name: PRAXAIR, INC. Address Line 1: 39 OLD RIDGEBURY ROAD - M1 Address Line 4: DANBURY, CONNECTICUT 06810											
ATTORNEY DOCKET NUMBER:	13434-US										
NAME OF SUBMITTER:	Janie Murphy										
Signature:	/Janie Murphy/										
Date:	07/03/2013										

CH \$40.00 13934263

Total Attachments: 4

source=13434-US\_ASSIGN\_FILED\_7-3-2013#page1.tif

source=13434-US\_ASSIGN\_FILED\_7-3-2013#page2.tif

source=13434-US\_ASSIGN\_FILED\_7-3-2013#page3.tif

source=13434-US\_ASSIGN\_FILED\_7-3-2013#page4.tif

JOINT

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

We, the undersigned,

NAME

RESIDING AT

**BERGES, PEDRO**

15 Robie Street  
Buffalo, NY 14214

**BELANGER, PAUL WILLIAM**

8110 Northfield Road  
Clarence Center, NY 14032

**AARON, TIM**

191 Quail Hollow Lane  
East Amherst, NY 14051

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

**ADSORPTION BED STRUCTURE AND PROCESS**

as described and/or claimed in our application for Letters Patent in the United States of America,

filed on 7/3/2013 (Serial No. 13/934263, Attorney Docket No. 13434-US)

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;

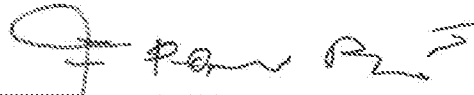
AND FURTHER INCLUDING THE SOLE RIGHT to file such applications under the Patent Laws of any country of the world in its name and/or ours, and the sole right to have patents granted on

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.

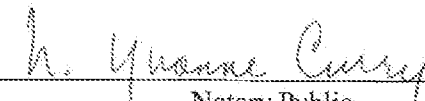
SIGNED AND SEALED AT Tonawanda, NY  
(city, state)

this 2nd day of July, 2013.

  
\_\_\_\_\_  
PEDRO BERGES

State of New York )  
County of Erie ) ss:


This 2nd day of July, 2013, before me personally came the above-named **PEDRO BERGES** 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

L. YVONNE CURRY  
NOTARY PUBLIC - STATE OF NEW YORK  
NO. 01CU5006471  
QUALIFIED IN ERIE COUNTY  
MY COMMISSION EXPIRES 01-04-2012

SIGNED AND SEALED AT Tonawanda, NY  
(city, state)

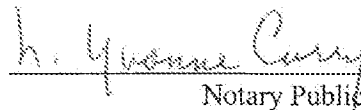
this 2nd day of July, 2013.



PAUL WILLIAM BELANGER

State of New York )  
County of Erie ) ss:

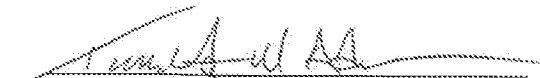
This 2nd day of July, 2013, before me personally came the above-named **PAUL WILLIAM BELANGER** to me personally known as the individual who executed the foregoing assignment, who has acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

  
Notary Public

L. YVONNE CURRY  
NOTARY PUBLIC - STATE OF NEW YORK  
NO. 01CU5006471  
QUALIFIED IN ERIE COUNTY  
MY COMMISSION EXPIRES 01-04-2015

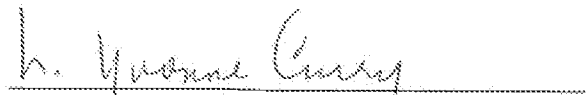
SIGNED AND SEALED AT Tonawanda, NY  
(city, state)

this 2nd day of July, 2013.

  
TIM AARON

State of New York )  
County of Erie ) ss:

This 2nd day of July, 2013, before me personally came the above-named **TIM AARON** 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

L. YVONNE CURRY  
NOTARY PUBLIC - STATE OF NEW YORK  
NO. 01CU5006471  
QUALIFIED IN ERIE COUNTY  
MY COMMISSION EXPIRES 01-04-2014