

## PATENT ASSIGNMENT

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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>Tetyana P. Shmyreva</td> <td>11/13/2007</td> </tr> <tr> <td>James Knapp</td> <td>11/13/2007</td> </tr> <tr> <td>Ardy Simon Kleyman</td> <td>11/19/2007</td> </tr> </tbody> </table>		Name	Execution Date	Tetyana P. Shmyreva	11/13/2007	James Knapp	11/13/2007	Ardy Simon Kleyman	11/19/2007
Name	Execution Date								
Tetyana P. Shmyreva	11/13/2007								
James Knapp	11/13/2007								
Ardy Simon Kleyman	11/19/2007								
RECEIVING PARTY DATA									
Name:	Praxair S.T. Technology, Inc.								
Street Address:	441 Sackett Point Road								
City:	North Haven								
State/Country:	CONNECTICUT								
Postal Code:	06473								
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>13895936</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13895936				
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Application Number:	13895936								
CORRESPONDENCE DATA									
Fax Number:	2038372545								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	203-837-2253								
Email:	Ruth_Schreiber@Praxair.com								
Correspondent Name:	PRAXAIR, INC. LAW DEPARTMENT - M1-04								
Address Line 1:	39 OLD RIDGEBURY ROAD								
Address Line 4:	DANBURY, CONNECTICUT 06810-5113								
ATTORNEY DOCKET NUMBER:	21544-D1								
NAME OF SUBMITTER:	Ruth A. Schreiber								
Signature:	/Ruth A. Schreiber/								
Date:	05/16/2013								

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Total Attachments: 4

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JOINT

**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>
Tetyana P. Shmyreva	8514 Sunningdale Blvd. Indianapolis, Indiana 46234	Engineer	U.S.A.
James Knapp	6251 N. County Road Pittsboro, Indiana 46167	Director, R&D	U.S.A.
Ardy Simon Kleyman	13510 Spring Farms Drive Carmel, Indiana 46032	Engineer	U.S.A.

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

**AMORPHOUS-NANOCRYSTALLINE-MICROCRYSTALLINE  
COATINGS AND METHODS OF PRODUCTION THEREOF**

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

filed on **November 19, 2007** (Serial No. **11/942,212**, Docket No. **21544**).

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 S.T. 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 441 Sackett Point Road, North Haven, Connecticut 06473, 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 S.T. 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 S.T. TECHNOLOGY, INC. its successors, assigns, or nominees, to obtain and enforce proper protection for said invention in all countries.

SIGNED AND SEALED AT 1500 Polco St Indianapolis IN this 13  
day of November, 2007.

T. Shmyreva  
Tetyana P. Shmyreva

State Indiana )  
County of Marion ) ss:

This 13 day of November, 2007, before me personally came the above-named Tetyana P. Shmyreva 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.

Barbara L. Hurdick  
Notary Public  
Notary State of Indiana  
Expires: 2/18/15

SIGNED AND SEALED AT 1500 Polco St Indpls IN this 13  
day of November, 2007.

James Knapp  
James Knapp

State of Indiana )  
County of Marion ) ss:

This 13 day of November, 2007, before me personally came the above-named James Knapp 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.

Barbara L. Heudeck  
Notary Public  
Notary State of Indiana  
Expires: 2/18/15

SIGNED AND SEALED AT 1500 Polco St Indianapolis 19th  
this IN  
day of November, 2007.

Ardy Simon Kleyman  
Ardy Simon Kleyman

State of Indiana )  
County of Marion ) ss:

This 19th day of November, 2007, before me personally came the above-named Ardy Simon Kleyman 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.

Wendy Chane  
Notary Public  
exp. 3/27/08