

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>Anupama Mallikarjunan</td> <td>05/12/2010</td> </tr> <tr> <td>Raymond Nicholas Vrtis</td> <td>05/14/2010</td> </tr> <tr> <td>Laura M. Matz</td> <td>05/12/2010</td> </tr> <tr> <td>Mark Leonard O'Neill</td> <td>05/11/2010</td> </tr> <tr> <td>Andrew David Johnson</td> <td>05/13/2010</td> </tr> <tr> <td>Manchao Xiao</td> <td>05/11/2010</td> </tr> </tbody> </table>		Name	Execution Date	Anupama Mallikarjunan	05/12/2010	Raymond Nicholas Vrtis	05/14/2010	Laura M. Matz	05/12/2010	Mark Leonard O'Neill	05/11/2010	Andrew David Johnson	05/13/2010	Manchao Xiao	05/11/2010
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RECEIVING PARTY DATA															
Name:	Air Products and Chemicals, Inc.														
Street Address:	7201 Hamilton Blvd.														
Internal Address:	Patent Dept.														
City:	Allentown														
State/Country:	PENNSYLVANIA														
Postal Code:	18195-1501														
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>12772518</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12772518										
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Application Number:	12772518														
CORRESPONDENCE DATA															
Fax Number:	(610)481-7083														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
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Address Line 2:	Patent Dept.														
Address Line 4:	Allentown, PENNSYLVANIA 18195-1501														
ATTORNEY DOCKET NUMBER:	07325ZP USA														

CH \$40.00 12772518

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PATENT
REEL: 024413 FRAME: 0206

NAME OF SUBMITTER:

Geoffry L. Chase

Total Attachments: 1

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ASSIGNMENT


For value received, we, Anupama Mallikarjunan, Raymond Nicholas Vrtis, Laura M. Matz, Mark Leonard O'Neill, Andrew David Johnson and Manchao Xiao, hereby sell, assign, and transfer to **AIR PRODUCTS AND CHEMICALS, INC.**, a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 18195-1501, the entire right, title, and interest in and to the invention relating to

Dielectric Barrier Deposition Using Nitrogen Containing Precursor

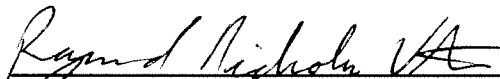
described in our application for Letters Patent of the United States (identified by Docket No. 07325ZP USA) executed of even date herewith, in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent upon said invention or improvements which may be granted in foreign countries. We hereby also assign and convey to said **AIR PRODUCTS AND CHEMICALS, INC.**, all the rights accruing to us by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in its own name.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said **AIR PRODUCTS AND CHEMICALS, INC.**, as assignee of the entire right, title, and interest in and to the same.


And we hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said **AIR PRODUCTS AND CHEMICALS, INC.**, its successors and assigns, the rights conveyed as herein set forth.


_____(L.S.)
Anupama Mallikarjunan

May 12, 2010
Date


_____(L.S.)
Raymond Nicholas Vrtis


May 14, 2010
Date


_____(L.S.)
Laura M. Matz

May 12, 2010
Date


_____(L.S.)
Mark Leonard O'Neill

May 11, 2010
Date


_____(L.S.)
Andrew David Johnson

5/13/2010
Date


_____(L.S.)
Manchao Xiao

5-11-2010
Date