

## 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>Zbigniew Zurecki</td><td>04/04/2011</td></tr><tr><td>Ranajit Ghosh</td><td>04/04/2011</td></tr><tr><td>Lisa Ann Mercado</td><td>04/04/2011</td></tr><tr><td>Xiaoyi He</td><td>04/06/2011</td></tr><tr><td>John Lewis Green</td><td>04/05/2011</td></tr><tr><td>David Scott Nelson</td><td>04/04/2011</td></tr></tbody></table>	Name	Execution Date	Zbigniew Zurecki	04/04/2011	Ranajit Ghosh	04/04/2011	Lisa Ann Mercado	04/04/2011	Xiaoyi He	04/06/2011	John Lewis Green	04/05/2011	David Scott Nelson	04/04/2011	
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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>13029289</td></tr></tbody></table>	Property Type	Number	Application Number:	13029289											
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CORRESPONDENCE DATA															
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ATTORNEY DOCKET NUMBER:	07404ZP USA/CAS														
NAME OF SUBMITTER:	Rosaleen P. Morris-Oskanian														
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PATENT  
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**ASSIGNMENT**

For value received, we, Zbigniew Zurecki, Ranajit Ghosh, Lisa Ann Mercado, Xiaoyi He, John Lewis Green and David Scott Nelson, 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

**Method of Metal Processing Using Cryogenic Cooling**

described in our application for Letters Patent of the United States (identified by Docket No. 07404ZP 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.

Zbigniew Zurecki (L.S.)  
Zbigniew Zurecki

4 April 2011  
Date

Ranajit Ghosh (L.S.)  
Ranajit Ghosh

Apr 4, 2011  
Date

Lisa Ann Mercado (L.S.)  
Lisa Ann Mercado

4 April 2011  
Date

Xiaoyi He (L.S.)  
Xiaoyi He

Apr. 6, 2011  
Date

John Lewis Green (L.S.)  
John Lewis Green

5 April 2011  
Date

David Scott Nelson (L.S.)  
David Scott Nelson

4 APRIL 2011  
Date