

## 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>Matthias Mueller-Hagedorn</td> <td>05/22/2012</td> </tr> <tr> <td>Holger Schlichting</td> <td>05/27/2012</td> </tr> <tr> <td>Guenther Heinz</td> <td>05/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Matthias Mueller-Hagedorn	05/22/2012	Holger Schlichting	05/27/2012	Guenther Heinz	05/30/2012		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Lurgi GmbH</td> </tr> <tr> <td>Street Address:</td> <td>Lurgiallee 5</td> </tr> <tr> <td>City:</td> <td>Frankfurt am Main</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>60439</td> </tr> </table>		Name:	Lurgi GmbH	Street Address:	Lurgiallee 5	City:	Frankfurt am Main	State/Country:	GERMANY	Postal Code:	60439
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CORRESPONDENCE DATA											
<p>Fax Number: 6127464781  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 6127464780        Email: sboyer@pdsdlaw.com        Correspondent Name: Pauly, DeVries Smith, &amp; Deffner, L.L.C.        Address Line 1: 45 S 7th St.        Address Line 2: Suite 3000        Address Line 4: Minneapolis, MINNESOTA 55402</p>											
ATTORNEY DOCKET NUMBER:	123.0018USWO										
NAME OF SUBMITTER:	Melissa J. Pytel										
<p>Total Attachments: 3        source=123_0018USWO_Executed Assignment#page1.tif        source=123_0018USWO_Executed Assignment#page2.tif        source=123_0018USWO_Executed Assignment#page3.tif</p>											

CH \$40.00 13521335

## ASSIGNMENT

WHEREAS, We, Matthias Mueller-Hagedorn, residing at Im Eschwinkel 18, Karlsruhe, DE 76199; Holger Schlichting, residing at Potsdamer Strasse 1, Hofheim, DE 65719; and Guenther Heinz, residing at Wiesenstrasse 12, Selters, DE 65618, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on July 10, 2012, which application was assigned U.S. patent application serial number 13/521,335, and is entitled PROCESS AND BURNER FOR PRODUCING SYNTHESIS GAS;

AND WHEREAS, Lurgi GmbH, a corporation organized and existing under and by virtue of the laws of Germany, and having an office and place of business at Lurgiallee 5, 60439 Frankfurt am Main, Germany (hereinafter 'Assignee'), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

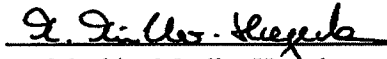
NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

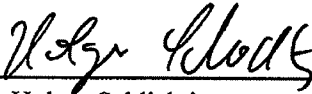
IN TESTIMONY WHEREOF, I have hereunto set my hand this 22 day of

May, 2012.

  
Matthias Mueller-Hagedorn

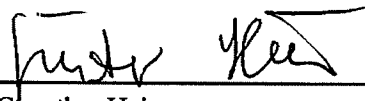
IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of

27 May, 2012.

  
\_\_\_\_\_  
Holger Schlichting

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of

30.5., 2012.

  
\_\_\_\_\_  
Guenther Heinz