

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>Robert Szolak</td> <td>04/12/2013</td> </tr> <tr> <td>Alexander Susdorf</td> <td>04/06/2013</td> </tr> <tr> <td>Thomas Aicher</td> <td>04/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	Robert Szolak	04/12/2013	Alexander Susdorf	04/06/2013	Thomas Aicher	04/15/2013		
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<table border="1"> <tr> <td>Name:</td> <td>Fraunhofer-Gesellschaft Zur Foerderung Der Angewandten Forschung E.V.</td> </tr> <tr> <td>Street Address:</td> <td>Hansastrasse 27c</td> </tr> <tr> <td>City:</td> <td>Munich</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>80686</td> </tr> </table>		Name:	Fraunhofer-Gesellschaft Zur Foerderung Der Angewandten Forschung E.V.	Street Address:	Hansastrasse 27c	City:	Munich	State/Country:	GERMANY	Postal Code:	80686
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CORRESPONDENCE DATA											
<p>Fax Number: 6173506878 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 617-350-6800 Email: elizabeth.jannino@gesmer.com Correspondent Name: Gesmer Updegrove LLP Address Line 1: 40 Broad Street Address Line 4: BOSTON, MASSACHUSETTS 02109</p>											
ATTORNEY DOCKET NUMBER:	PFENNING.9606										
NAME OF SUBMITTER:	Matthew E. Connors										
Signature:	/Matthew E. Connors/										
Date:	05/07/2013										

OP \$40.00 13877811

Total Attachments: 4

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ASSIGNMENT

Know all men by these presents that:

WHEREAS we, Robert Szolak
 Heimenhauserweg 4, 79111
 Freiburg, DE

Alexander Susdorf
Vogesenstr 21, 79206
Breisach, DE

and

Thomas Aicher
Sonnenberg Str. 11, 79117
Freiburg, DE

have made an invention for

**EXHAUST-GAS PURIFICATION DEVICE, METHOD FOR
EXHAUST-GAS PURIFICATION, CATALYTIC CONVERTER
AND PYROLYSIS REACTOR**

described in an application filed on April 4, 2013 as Serial No. 13/877,811, a 371 Application of International Application Serial No. PCT/EP2011/004910 which was filed on September 30, 2011, claiming priority to German patent application numbers DE 102010047249.2 filed October 4, 2010 and DE 102010049957.9 filed October 28, 2010; and

WHEREAS FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., a corporation duly organized and existing under the laws of Germany and having a place of business at Hansastrasse 27c, 80686, Munich, GERMANY for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the said invention, the said application, all inventions disclosed in said application, and any and all Letters Patent of the United States and of all other countries which may be granted for the said invention or inventions, or any of them;

NOW, THEREFORE, for good and valuable consideration provided by said Assignees, the receipt whereof is hereby acknowledged, we do hereby sell, assign and transfer to the said Assignees the entire right, title and interest in and to the said invention, inventions and application, including all priority rights arising therefrom, all inventions disclosed in said application, and any and all Letters Patent of the United States, and of all other countries, together with the right to apply for such Letters

Patent, which may be granted for the said invention, inventions or any of them,

TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said Letters Patent, to said

**FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN
FORSCHUNG E.V.**

their successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

AND we hereby authorize and request the Commissioner of Patents of the United States and the appropriate officers of all foreign patent offices to issue any and all Letters Patent which may be granted on the said application or applications above referred to, or for the said invention, or any of them, to the said Assignees in accordance with the terms of this instrument.

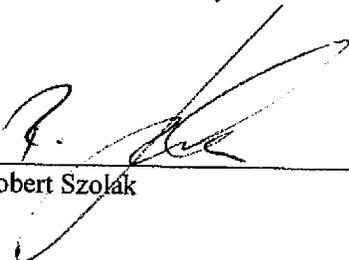
AND we hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignees fully to secure to said Assignees their interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND we further covenant and agree that we will at any time upon request communicate to the said Assignees, their successors, assigns or other legal representatives, any facts known to us relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND we hereby covenant for ourselves and our legal representatives that we have not hitherto assigned or granted any license to make, use or sell said invention, and that we will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

4/12/13

Date



Robert Szolák

Date

Alexander Susdorf

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TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said Letters Patent, to said

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Date

Robert Szolak

4-6-2013

Date

Susdorf

Alexander Susdorf

4/15/13
Date

Thomas Aicher
Thomas Aicher

9606