

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4626353

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	HTE GMBH	02/24/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	BASF CORPORATION	
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<b>State/Country:</b>	NEW JERSEY	
<b>Postal Code:</b>	07932	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15508744
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<b>ATTORNEY DOCKET NUMBER:</b>	B248 10100US (0347.8)	
<b>NAME OF SUBMITTER:</b>	HEIKE S. RADEKE	
<b>SIGNATURE:</b>	/heike s. radeke/	
<b>DATE SIGNED:</b>	10/04/2017	
<b>Total Attachments: 4</b>		
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**WORLDWIDE INVENTION ASSIGNMENT**

WHEREAS, **hte GmbH**, doing business at Kurpfalzring 104, 69123 Heidelberg, Germany, (hereinafter referred to as "Assignor") presents that it has previously acquired all right, title, and interest held by **Sven Titlbach, Andreas Sundermann, and Stephen Andreas Schunk**, to the inventions and improvements disclosed in U.S. Provisional Patent Application No. 62/046,465, filed on September 5, 2014, and International Application No. PCT/US2015/047386, filed on August 28, 2015, and entitled "TITANIA-DOPED ZIRCONIA AS PLATINUM GROUP METAL SUPPORT IN CATALYSTS FOR TREATMENT OF COMBUSTION ENGINE EXHAUSTS STREAMS,"

WHEREAS, **BASF Corporation**, doing business at 100 Park Avenue, Florham Park, New Jersey 07932, (hereinafter referred to as "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions and improvements in the noted international patent application (hereinafter referred to as "the Patent"); and

WHEREAS, the parties have agreed to the Assignment hereinafter set forth;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor, by these presents, does assign, transfer, and convey unto Assignee the full, exclusive and entire right, title and interest, worldwide: (i) in and to all inventions and improvements disclosed and described in the Patent; (ii) in and to any other patent applications filed based in whole or in part upon said inventions or improvements and/or claiming priority to the Patent, including national stage applications, provisional applications, non-provisional applications, divisional applications, continuation applications, continuation-in-part applications, design applications, Patent Cooperation Treaty applications, utility model applications, and inventor's certificate applications; (iii) in and to all patents or similar protective rights which may be granted on the Patent and all reissues, reexaminations, and extensions thereof, any and all such patents or other protective rights to issue in the name of Assignee and for the sole use and behalf of Assignee and its successors and assigns; and (iv) in and to the right

to claim any applicable priority rights arising from or required for any of the aforementioned patents and applications under the terms of any applicable conventions, treaties, statutes, or regulations.

For the same consideration, Assignor agrees to: (i) communicate to Assignee, its successors, legal representatives, and assigns, any facts known to Assignor respecting said invention and improvements or the history thereof and any and all documents, photographs, models, samples, or other physical exhibits which may embody said inventions or improvements; (ii) sign, execute, or otherwise facilitate the signing or execution of all lawful papers, applications, declarations, affidavits, assignments, and rightful oaths that may be requested by Assignee during prosecution or enforcement of any rights related to the inventions and improvements; (iii) subject to Assignee's agreement to reimburse Assignor for any reasonable costs and expenses, testify in any proceedings relating to said invention or improvements or rights granted therefor; and (iv) generally do everything possible to aid Assignee, its successors, legal representatives, and assigns, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

Assignor hereby directs the United States Patent and Trademark Office and all foreign patent offices to issue any and all aforementioned patents or similar protective rights in the United States or elsewhere in the name of Assignee, for the interest and for the sole use and behoof of Assignee, and its successors and assigns.

Assignor covenants with Assignee, its successors, assigns, and legal representatives that no assignment, grant, security interest, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned.

By execution of this document, the undersigned warrants that he/she has full authority to transfer all right, title, and interest related to the subject matter described herein on behalf of the Assignor.

**Executed on behalf of  
hte GmbH**

By:

(Signature)

(Print Name)

Title

Date:

02/24/2017

WITNESSES:

(Signature of Witness)

(Typed Name of Witness)

(Signature of Witness)

(Typed Name of Witness)

Executed on behalf of  
BASF Corporation

By:

[Signature]  
(Signature)

FERNANDO BORREGO  
(Print Name)

ASSOC. GENERAL COUNSEL & ASST. SECY  
Title

Date: March 2, 2017

State of Michigan

County of Wayne

I, MARIKA PAULA DIAMOND, a Notary Public for said County and State, do hereby  
certify that FERNANDO BORREGO, personally appeared before me this day and  
acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 2 day of MARCH, 2017.

(Official Seal)

[Signature]  
Notary Public

My commission expires OCTOBER 21, 2021

MARIKA PAULA DIAMOND  
NOTARY PUBLIC, STATE OF MI  
COUNTY OF WAYNE  
MY COMMISSION EXPIRES Oct 21, 2021  
ACTING IN COUNTY OF Wayne