

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4282320

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	PATRICK BURK	05/07/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	BASF CORPORATION	
<b>Street Address:</b>	100 PARK AVENUE	
<b>City:</b>	FLORHAM PARK	
<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:	14204386
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(919)755-2150	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Phone:</b>	(919)755-2100	
<b>Email:</b>	selofson@wcsr.com	
<b>Correspondent Name:</b>	HEIKE S. RADEKE	
<b>Address Line 1:</b>	555 FAYETTEVILLE STREET	
<b>Address Line 2:</b>	SUITE 1100	
<b>Address Line 4:</b>	RALEIGH, NORTH CAROLINA 27601	
<b>ATTORNEY DOCKET NUMBER:</b>	B248 1920US.1 (0059.2)	
<b>NAME OF SUBMITTER:</b>	HEIKE S. RADEKE	
<b>SIGNATURE:</b>	/heike s. radeke/	
<b>DATE SIGNED:</b>	02/20/2017	
<b>Total Attachments: 7</b>		
source=PF74349 Assignment.Declaration#page1.tif		
source=PF74349 Assignment.Declaration#page2.tif		
source=PF74349 Assignment.Declaration#page3.tif		
source=PF74349 Assignment.Declaration#page4.tif		
source=PF74349 Assignment.Declaration#page5.tif		

source=PF74349 Assignment.Declaration#page6.tif

source=PF74349 Assignment.Declaration#page7.tif

COMBINED ASSIGNMENT AND DECLARATION

As an Assignment under 35 U.S.C. 261,  
WHEREAS, I, Wen-Mei Xue, am a citizen of the United States of America and reside at 912 Blossom Circle, Dayton, New Jersey 08810 United States of America;  
I, Xinyi Wei, am a citizen of the United States of America and reside at 58 Sayre Drive, Princeton, New Jersey 08540 United States of America;  
I, Marcus Hilgendorff, am a citizen of Germany and reside at Anecampstr. 49F, Hannover Bemerode, Germany 30539; and  
I, Patrick Burk, am a citizen of the United States and reside at 104 Juniper Drive, Freehold, New Jersey 07728 United States of America;

and we are inventors of an invention in; and believes that we are the joint inventors of the subject matter in

NO<sub>x</sub> STORAGE CATALYST WITH IMPROVED HYDROTHERMAL STABILITY AND NO<sub>x</sub> CONVERSION

for which we have filed an application for Letters Patent of the United States on March 11, 2014 having the Serial Number of 14/204386; and

WHEREAS, the latest effective date of this Assignment for each listed inventor is the date of the last signature below;

WHEREAS, said effective date of this Assignment for each inventor is within one (1) year of the filing date listed above;

WHEREAS, BASF Corporation, a Delaware Corporation having a place of business at 100 Park Avenue, Florham Park, New Jersey 07932, is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said application:

NOW, THEREFORE, in consideration of good and valuable consideration the receipt of which is hereby acknowledged, the said inventor(s) have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over unto said BASF Corporation, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the invention, as described and claimed in the above-referenced patent application, the said improvements, and the said application, all applications derived therefrom and all continuing prosecution and RCE applications, conversions, divisions, renewals and continuations, in whole or in part, thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications including PCT applications for Letters Patent or Inventor's Certificates which may hereafter be filed for said  
060513

improvements in any country or countries foreign to the United States, and all Letters Patent or Inventor's Certificates which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof including the right to claim priority under any international treaty or convention of the above-referenced patent application; and I/We hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said BASF Corporation, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

I/WE HEREBY authorize the above-mentioned assignee, BASF Corporation, to insert/have inserted into this instrument the serial number and filing date of said patent application.

I/WE HEREBY covenant that I/We have full right to convey the entire interest herein assigned, and that I/We have not executed and will not execute any agreement in conflict herewith.

AND I/WE HEREBY further covenant and agree that I/We will communicate to said BASF Corporation, its successors, legal representatives and assigns, any facts known to me/us respecting said invention and said improvements, and testify in any legal proceeding, sign all lawful papers, execute all continuing prosecution, divisional, continuing, reexamination and reissue applications, make all rightful oaths, and generally do everything possible to aid said BASF Corporation, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for and defend said inventions and improvements in all countries, it being understood that this Assignment shall bind and inure to the benefit of the assigns and legal representatives of all parties hereto.

WHEREAS, BASF Corporation has no obligation to any of the listed inventors to maintain this Assignment in confidence and thus, BASF Corporation may disclose it to third parties including recording it with patent offices and use it in any public way including litigation.

BASF Corporation

Melanie Brown  
Melanie Brown  
Assistant Secretary

As a Declaration under 37 CFR 1.63, for a utility or design application using an Application Data Sheet (37 CFR 1.76), each inventor listed in this document for which a signature has been provided hereby declares that:

This Declaration is directed to:

United States application Serial Number 14/204386 filed on March 11, 2014.

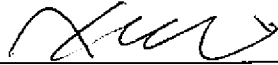
The above-identified application was made or authorized to be made by us.

I believe that I am the original joint inventor of a claimed invention in the application for which this Declaration is being submitted.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year set opposite my respective signature.

Date: 04/03/2014  
MM/DD/YYYY

  
Inventor's Signature – Wen-Mei Xue

State of New Jersey )  
ss.:  
County of middlesex )

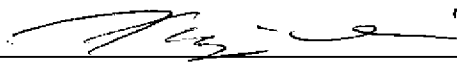
**BARBARA A. SLATTERY**  
**NOTARY PUBLIC OF NEW JERSEY**  
**I.D. # 2427835**  
**My Commission Expires 12/11/2017**

On this 3<sup>RD</sup> day of APRIL, 2014, before me, a Notary Public in and for the State and County aforesaid, personally appeared, Wen-Mei Xue to me known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

  
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year set opposite my respective signature.

Date: 04/03/2014  
MM/DD/YYYY

  
Inventor's Signature – Xinyi Wei

State of New Jersey )  
ss.:  
County of middlesex )

**BARBARA A. SLATTERY**  
**NOTARY PUBLIC OF NEW JERSEY**  
**I.D. # 2427835**  
**My Commission Expires 12/11/2017**

On this 3<sup>RD</sup> day of APRIL, 2014, before me, a Notary Public in and for the State and County aforesaid, personally appeared, Xinyi Wei to me known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

  
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year set opposite my respective signature.

Date: 04/23/2014  
MM/DD/YYYY

Marcus Hilgendorff  
Inventor's Signature - Marcus Hilgendorff

State of \_\_\_\_\_ )  
ss.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, before me, a Notary Public in and for the State and County aforesaid, personally appeared, \_\_\_\_\_ to me known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

\_\_\_\_\_  
Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year set opposite my respective signature.

Date: \_\_\_\_\_  
MM/DD/YYYY

\_\_\_\_\_  
Inventor's Signature - Patrick Burk

State of \_\_\_\_\_ )  
ss.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, before me, a Notary Public in and for the State and County aforesaid, personally appeared, \_\_\_\_\_ to me known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

\_\_\_\_\_  
Notary Public

Nummer 22, der Urkundenrolle für 2014

Hiermit beglaube ich vorstehende,  
heute vor mir geleistete Unterschrift von

I hereby certify the above signature  
of

Herrn **Dr. Marcus Hilgendorff**,  
geboren am (born on) 22. Januar 1967,  
dienstansässig (business address): BASF Catalysts Germany GmbH,  
Seligmannallee 1, 30173 Hannover,



ausgewiesen durch gültigen  
Personalweis.

identified himself by means of his  
identity card .

Der Erschienene verneinte die Frage nach einer Vorbefassung i. S. von § 3 Abs. 1  
Nr. 7 BeurkG.

(The Notary asked the appearer whether he or any member of his firm had acted in  
the matter which is the subject of this instrument, except in a notarial capacity. The  
Appearer replied in the negative.)

Hannover, den 23. April 2014

(Kai Schulz-Koffka)  
Notar



IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year set opposite my respective signature.

Date: \_\_\_\_\_  
MM/DD/YYYY

\_\_\_\_\_  
Inventor's Signature – Marcus Hilgendorff

State of \_\_\_\_\_ )  
ss.: \_\_\_\_\_  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, before me, a Notary Public in and for the State and County aforesaid, personally appeared, \_\_\_\_\_ to me known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

\_\_\_\_\_  
Notary Public

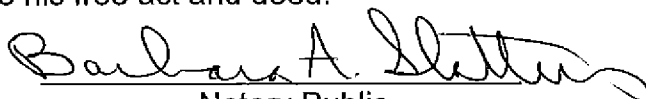
IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year set opposite my respective signature.

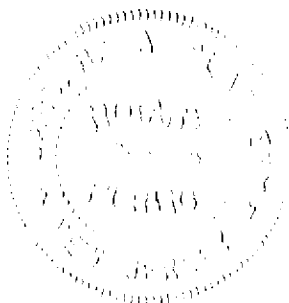
Date: 05/07/2014  
MM/DD/YYYY

  
Inventor's Signature – Patrick Burk

State of New Jersey )  
ss.: \_\_\_\_\_  
County of middlesex )

On this 7<sup>th</sup> day of MAY, 2014, before me, a Notary Public in and for the State and County aforesaid, personally appeared, PATRICK BURK to me known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

  
Notary Public



060513

RECORDED: 02/20/2017

**BARBARA A. SLATTERY**  
**NOTARY PUBLIC OF NEW JERSEY**  
**I.D. # 2427835**  
**My Commission Expires 12/11/2017**

**PATENT**

**REEL: 041302 FRAME: 0955**