

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT5361058

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WEN-MEI XUE	05/05/2017
JEFF H. YANG	05/05/2017
STANLEY A. ROTH	05/05/2017
KENNETH E. VOSS	06/16/2017
SANDIP D. SHAH	06/17/2017
JAYA L. MOHANAN	05/08/2017
<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>
<b>Application Number:</b>	16323145
<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>	919-755-8157
<b>Email:</b>	ipdocketing@wbd-us.com
<b>Correspondent Name:</b>	RYAN W. CAGLE
<b>Address Line 1:</b>	555 FAYETTEVILLE STREET
<b>Address Line 2:</b>	WOMBLE BOND DICKINSON (US) LLP
<b>Address Line 4:</b>	RALEIGH, NORTH CAROLINA 27601
<b>ATTORNEY DOCKET NUMBER:</b>	B248 10290US.PCT (1202.7)
<b>NAME OF SUBMITTER:</b>	RYAN W. CAGLE
<b>SIGNATURE:</b>	/ryan w. cagle/
<b>DATE SIGNED:</b>	02/05/2019

**Total Attachments: 6**

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## ASSIGNMENT

WHEREAS, WE, Wen-Mei Xue (citizen of United States), residing at 912 Blossom Circle, Dayton, NJ 08810, Jeff Yang (citizen of United States), residing at 42 Monmouth Road, Glen Rock, NJ 07452, Stanley Roth (citizen of United States), residing at 167 Crestview Way, Yardley, PA 19067, Kenneth E. Voss (citizen of United States), residing at 3 Colonial Road, Somerville, NJ 08876, Sandip Shah (citizen of United States), residing at 9 Hager Street, East Brunswick, NJ 08816, and Jaya L. Mahanan (citizen of United States), residing at 34 Pheasant Run, Edison, NJ 08820, have invented, developed, and/or have rights in the invention(s) (hereinafter "Invention") disclosed in an application for United States Letters Patent entitled:

### "SELECTIVE CATALYTIC REDUCTION ARTICLES AND SYSTEMS"

filed on August 5, 2016 and accorded U.S. Application No. 62/371,527, (hereinafter "Application");  
and

WHEREAS, BASF Corporation, a corporation organized under the laws of the United States of America and having a place of business at 100 Park Ave, Florham Park, NJ 07932 (hereinafter "Assignee"), is desirous of acquiring the entire right, title, and interest in and to the Invention and in and to the Application.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to Assignee and its successors and assigns, our entire right, title and interest, worldwide, in and to the Invention and the Application, and all patents and applications, worldwide, claiming priority to and/or benefit of, directly or indirectly, or based in whole or in part on, said Application and/or said Invention, including continuations, continuations-in-part, divisionals, reissues, reexaminations, renewals, substitutes, and extensions thereof, and any international and regional applications, based in whole or in part on any of the aforesaid applications or in whole or in part on said Invention, and all priority rights under the International Convention for the Protection of Industrial Property for every member country, and all utility-model registrations, inventor's certificates, and the like heretofore or hereafter filed, worldwide, for the Invention, and in and to any and all patents (including all extensions, renewals, reexaminations and reissues thereof), worldwide, which have been or may be granted on any of the aforesaid applications or on said Invention or any parts thereof.

AND WE HEREBY covenant and agree for ourselves and our heirs, executors and administrators that we will communicate to Assignee any facts known to us respecting the Invention and the aforementioned applications, sign all lawful papers, testify in any legal proceeding, make all rightful oaths, and take any other actions that may be necessary or desirable to secure to Assignee its right, title, and interest in and to the aforementioned patents, applications and Invention, and generally do everything possible to aid Assignee to obtain and enforce proper patent protection for the Invention and the aforementioned patents and applications;

AND WE HEREBY agree to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said applications, or in the preparation or prosecution of any continuation, continuation-in-part, divisional, substitute, renewal,

reexamination or reissue application or in any amendments, extensions or interference proceedings, or other applications for patents or similar rights of any region or country, that may be necessary to secure to Assignee its interest and title in and to said Invention or any parts thereof, and in and to said applications and patents;

AND WE HEREBY authorize and request our agents, Lowenstein Sandler LLP, whose address is 65 Livingston Avenue, Roseland, New Jersey 07068, to insert hereon any identification necessary or desirable for recordation of this document, including the filing date and application number of said Application when known;

AND WE HEREBY covenant for ourselves and our legal representatives, and agree with said Assignee, its successors and assigns, that we have the full right to convey the entire interest herein assigned, and that we have granted no right or license to make, use, sell or offer to sell said Invention, to anyone except said Assignee, that prior to the execution of this deed, our right, title and interest in said Invention and said Application had not been otherwise encumbered, and that we have not and will not execute any instrument in conflict therewith;

AND WE HEREBY authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty is to issue patents on applications as aforesaid, to issue any and all letters patents which may be granted upon said United States and foreign applications or upon the Invention to the Assignee.

- SIGNATURES BEGIN ON NEXT PAGE -

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

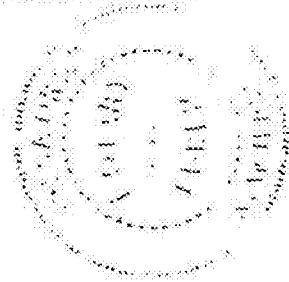
May 5, 2017  
Date

[Signature]  
Wen-Mei Xue

WITNESS

Signature: [Signature]  
Printed Name: TERESA ORTIZ  
Date: 5/5/17

TERESA ORTIZ  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 7/1/2021



IN WITNESS WHEREOF, we have hereunto set our hands and seals.

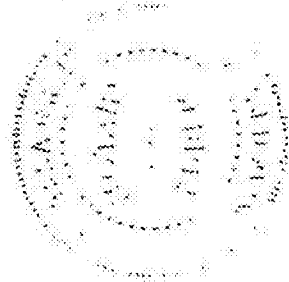
May 5, 2017  
Date

[Signature]  
Jeff Yang

WITNESS

Signature: [Signature]  
Printed Name: TERESA ORTIZ  
Date: 5/5/17

TERESA ORTIZ  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 7/1/2021



IN WITNESS WHEREOF, we have hereunto set our hands and seals.

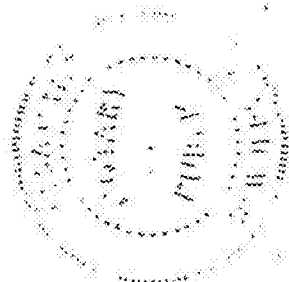
05-May-2017  
Date

[Signature]  
Stanley Roth

WITNESS

Signature: [Signature]  
Printed Name: TERESA ORTIZ  
Date: 5/5/17

TERESA ORTIZ  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 7/1/2021



IN WITNESS WHEREOF, we have hereunto set our hands and seals

06-16-2017  
Date

[Signature]  
Kenneth E. Voss

WITNESS

Signature: [Signature]  
Printed Name: TERESA ORTIZ  
Date: 06-16-17

TERESA ORTIZ  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 7/17/2021

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Sandip Shah

WITNESS

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Date: \_\_\_\_\_

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jaya L. Mohanan

WITNESS

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Date: \_\_\_\_\_

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Kenneth E. Voss

WITNESS

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

6/17/17  
Date

  
\_\_\_\_\_  
Sandip Shah

WITNESS

Signature: Tian Luo

Printed Name: Tian Luo

Date: 06/17/17

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jaya L. Mohanan

WITNESS

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Kenneth E. Voss

WITNESS

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Sandip Shah

WITNESS

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

May 8<sup>th</sup>, 2017  
Date

Jaya L. Mhargan  
Jaya L. Mhargan

WITNESS

Signature: Cynthia Hoffmann

Printed Name: Cynthia Hoffmann

Date: May 8, 2017