

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5937035

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT		
<b>CONVEYING PARTY DATA</b>			
	<b>Name</b>	<b>Execution Date</b>	
	IVAN PETROVIC	06/28/2017	
	JAYA L. MOHANAN	08/26/2017	
	JOSEPH J. PETENKO	06/28/2017	
<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>	
	Application Number:	16620116	
<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>	919755-2100		
<b>Email:</b>	diann.gravius@wbd-us.com		
<b>Correspondent Name:</b>	JESSICA L. GORCZYNSKI		
<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 1550US.PCT (1409.7)		
<b>NAME OF SUBMITTER:</b>	JESSICA L. GORCZYNSKI		
<b>SIGNATURE:</b>	/jessica l. gorczynski/		
<b>DATE SIGNED:</b>	01/30/2020		
<b>Total Attachments: 5</b>			
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## WORLDWIDE INVENTION ASSIGNMENT

WHEREAS, the undersigned (hereinafter collectively referred to as "Assignor") has or may have invented certain inventions and improvements disclosed in the United States patent application entitled "**CATALYTIC WASHCOAT WITH CONTROLLED POROSITY FOR NOX ABATEMENT**" and designated as

- ☒ Application No. 62/517,243; filed June 9, 2017
- ☐ Application claims priority from Application No. , filed , all applications listed above being hereinafter referred to as the "Application(s)";

WHEREAS, it is agreed that

BASF Corporation  
100 Park Avenue  
Florham Park, NJ 07932

(hereinafter referred to as "Assignee"), is entitled to or is desirous of acquiring all right, title and interest related to the same;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor, by these presents, does sell, assign, and transfer 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 Application(s); (ii) in and to said Application(s) and any other United States national stage, provisional, non-provisional, divisional, continuation, continuation-in-part, or design patent applications based in whole or in part upon said inventions or improvements and/or claiming priority to said Application(s) (the "U.S. Applications"); (iii) in and to any Patent Cooperation Treaty applications based in whole or in part upon said inventions or improvements and/or claiming priority to said Application(s); (iv) in and to any and all applications for industrial property protection, including without limitation applications for patent, utility model, inventor's certificate, and design, filed or which are hereafter filed in countries outside the United States (the "Foreign Applications") and which describe in whole or in part said inventions and improvements, said Foreign Applications to be

filed and issued in the name of Assignee or its designee insofar as permitted by applicable law; (v) in and to all patents or similar protective rights in the United States or elsewhere which may be granted on the U.S. Applications and Foreign Applications 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 behoof of Assignee and its successors and assigns; and (vi) in and to the right to claim any applicable foreign or domestic priority rights arising from or required for any of the aforementioned applications under the terms of any applicable conventions, treaties, statutes, or regulations.

AND, for the same consideration, Assignor agrees to (i) communicate to Assignee, its successors, legal representatives, and assigns, any facts known to Assignor respecting said inventions 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 or execute 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) testify in any proceedings relating to said inventions or improvements or rights granted therefor; and (iv) generally do everything possible to aid Assignee and 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 covenants with Assignee, its successors, legal representatives, and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned. Assignor further agrees that Assignee, its successors, legal representatives, and assigns, may insert into this Assignment any further text necessary or desirable to define the Applications to which the Assignment pertains for purposes of recordation, and also agrees that the Assignment is effective at least as early as June 9, 2017 the earliest priority date of the Application(s).

*[SIGNATURE PAGES FOLLOW]*

June 28, 2017  
Date

Ivan Petrovic  
IVAN PETROVIC

State of NJ)

County of Middlesex)

I, TERESA ORTIZ, a Notary Public for said County and State, do hereby certify that IVAN PETROVIC personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 28<sup>th</sup> day of June, 2017.

(Official Seal)

Teresa Ortiz  
Notary Public

My commission expires \_\_\_\_\_  
**TERESA ORTIZ**  
**NOTARY PUBLIC OF NEW JERSEY**  
**My Commission Expires 7/7/2021**

8-26-2017  
Date

Jayamohan  
JAYA L. MOHANAN

State of New Jersey )  
County of Middlesex )

I, Cynthia Hoffman, a Notary Public for said County and State, do hereby certify that JAYA L. MOHANAN personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 26<sup>th</sup> day of June, 2017.

(Official Seal)

Cynthia Hoffman  
Notary Public

My commission expires 8-17-2017

Date 6/28/17


  
JOSEPH J. PETENKO

State of New Jersey )  
County of Middlesex )

I, TERESA ORTIZ, a Notary Public for said County and State, do hereby certify that JOSEPH J. PETENKO personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 28<sup>th</sup> day of June, 2017.

(Official Seal)

  
Notary Public

My commission expires **TERESA ORTIZ**  
**NOTARY PUBLIC OF NEW JERSEY**  
**My Commission Expires 7/7/2021**