

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| 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>Xinsheng Liu</td> <td>05/20/2013</td> </tr> <tr> <td>Esra Cinar</td> <td>05/20/2013</td> </tr> <tr> <td>Chunjuan Zhang</td> <td>05/20/2013</td> </tr> <tr> <td>Pascaline Harrison Tran</td> <td>05/20/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Xinsheng Liu | 05/20/2013 | Esra Cinar | 05/20/2013 | Chunjuan Zhang | 05/20/2013 | Pascaline Harrison Tran | 05/20/2013 |
| Name | Execution Date | | | | | | | | | | |
| Xinsheng Liu | 05/20/2013 | | | | | | | | | | |
| Esra Cinar | 05/20/2013 | | | | | | | | | | |
| Chunjuan Zhang | 05/20/2013 | | | | | | | | | | |
| Pascaline Harrison Tran | 05/20/2013 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>BASF Corporation</td> </tr> <tr> <td>Street Address:</td> <td>100 Park Avenue</td> </tr> <tr> <td>City:</td> <td>Florham Park</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>07932</td> </tr> </table> | | Name: | BASF Corporation | Street Address: | 100 Park Avenue | City: | Florham Park | State/Country: | NEW JERSEY | Postal Code: | 07932 |
| Name: | BASF Corporation | | | | | | | | | | |
| Street Address: | 100 Park Avenue | | | | | | | | | | |
| City: | Florham Park | | | | | | | | | | |
| State/Country: | NEW JERSEY | | | | | | | | | | |
| Postal Code: | 07932 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13786870</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13786870 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13786870 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: 8649645981 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 973-245-7357 Email: USPTONotices@basf.com Correspondent Name: BASF CORPORATION Address Line 1: 100 PARK AVENUE Address Line 4: FLORHAM PARK, NEW JERSEY 07932 | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | PF74789 | | | | | | | | | | |
| NAME OF SUBMITTER: | Melanie L. Brown | | | | | | | | | | |
| Signature: | /Melanie L. Brown/ | | | | | | | | | | |

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PATENT
 REEL: 030471 FRAME: 0746

CH \$40.00 13786870

| | |
|---|--|
| Date: | 05/23/2013 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| <p>Total Attachments: 8</p> <p>source=PF74789_Assignment_Declaration#page1.tif source=PF74789_Assignment_Declaration#page2.tif source=PF74789_Assignment_Declaration#page3.tif source=PF74789_Assignment_Declaration#page4.tif source=PF74789_Assignment_Declaration#page5.tif source=PF74789_Assignment_Declaration#page6.tif source=PF74789_Assignment_Declaration#page7.tif source=PF74789_Assignment_Declaration#page8.tif</p> | |

COMBINED ASSIGNMENT AND DECLARATION

WHEREAS, Xinsheng Liu, being a citizen of the United States, residing at 6 Ventnor Drive, Edison, NJ 08820; Esra Cinar, being a citizen of the United States, residing at 30 East 2nd Street, Clifton, NJ 07011; Ghunjuan Zhang, being a permanent resident – green card holder of the United States, residing at 55 Country Club Ln., Scotch Plains, NJ 07076; and Pascaline Harrison Tran, being a citizen of the United States, residing at 11 Galloping Hill Road, Holmdel, NJ 07733; are the inventors of an invention in and believe that I (we) am (are) the sole (joint) inventor(s) of the subject matter in

Porous Catalyst Washcoats

for which I (we) have executed an application for Letters Patent of the United States on March 6, 2013, having the serial number of 13/786,870; and

WHEREAS, the latest effective date of this Assignment for each of us listed inventors is the date of our 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 the sum of One Dollar (\$1.00) to me/us in hand paid, and other good and valuable consideration the receipt of which is hereby acknowledged, I/WE, 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 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 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.

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.

WE HEREBY covenant that We have full right to convey the entire interest herein assigned, and that 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.

AS A DECLARATION UNDER 37 CFR 1.63, for a utility or design application using an Application Data Sheet (37 CFR 1.76), each below-named inventor for which a signature has been provided hereby declares that:

This Declaration is directed to:



The attached application, or

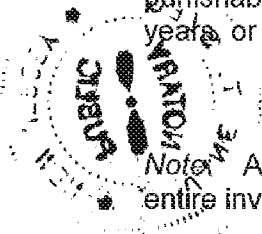
x United States application or PCT international application number 13/786870
filed on March 6, 2013.

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

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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.

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.



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

Date: 5/20/2013
MM/DD/YYYY

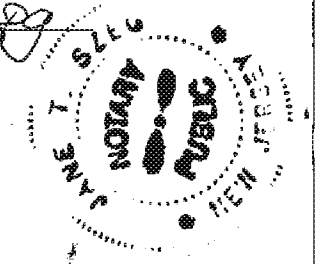
Xinsheng Liu
Xinsheng Liu

State of New Jersey
ss.:
County of middlesex

On this 20 day of May, 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared, Xinsheng Liu, 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.

Jane T. Szeg
Notary Public

JANE T. SZEG
NOTARY PUBLIC OF NEW JERSEY
I.D. # 2362758
My Commission Expires 8/2/2017



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

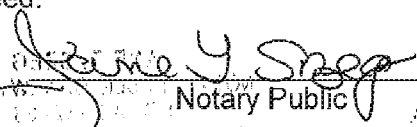
Date: 05/20/2013
MM/DD/YYYY


Esra Cinar

State of New Jersey
ss.
County of Middlesex

On this 20 day of May, 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared, **Esra Cinar**, 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.

JANE T. SZEG
NOTARY PUBLIC OF NEW JERSEY
I.D. # 2362758
My Commission Expires 8/2/2017


Notary Public



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

Date: 05/20/2013
MM/DD/YYYY

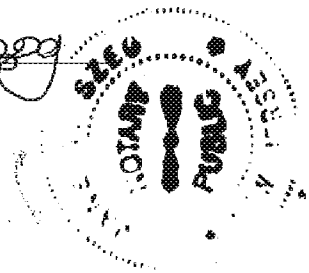
Chunjuan Zhang
Chunjuan Zhang

State of New Jersey
ss.:
County of Middlesex

On this 20 day of May 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared, **Chunjuan Zhang**, 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.

JANE T. SZEG
NOTARY PUBLIC OF NEW JERSEY
I.D. # 2362758
My Commission Expires 8/2/2017

Jane T. Szeg
Notary Public



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

Date: 05/21/2013
MM/DD/YYYY

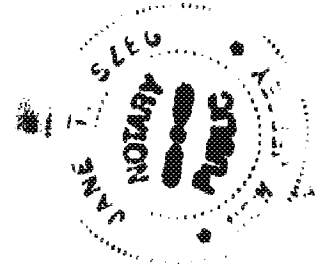
Pascaline Tran
Pascaline Harrison Tran

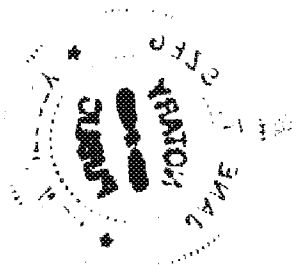
State of New Jersey)
ss.:
County of middlesex)

On this 21 day of May 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared, **Pascaline Harrison Tran**, 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.

JANE T. SZEG
NOTARY PUBLIC OF NEW JERSEY
I.D. # 2362758
My Commission Expires 8/2/2017

Jane T Szeg
Notary Public





STATE OF NEW YORK
NOTARY PUBLIC
JAMES L. BERRY
1000 1000 1000