

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>Xiaolin David Yang</td> <td>03/18/2013</td> </tr> <tr> <td>Pascaline Harrison Tran</td> <td>03/18/2013</td> </tr> <tr> <td>Qingyuan Hu</td> <td>03/11/2013</td> </tr> <tr> <td>Doan Lieu</td> <td>03/04/2013</td> </tr> <tr> <td>Michael P Galligan</td> <td>03/18/2013</td> </tr> <tr> <td>Ye Liu</td> <td>03/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	Xiaolin David Yang	03/18/2013	Pascaline Harrison Tran	03/18/2013	Qingyuan Hu	03/11/2013	Doan Lieu	03/04/2013	Michael P Galligan	03/18/2013	Ye Liu	03/18/2013
Name	Execution Date														
Xiaolin David Yang	03/18/2013														
Pascaline Harrison Tran	03/18/2013														
Qingyuan Hu	03/11/2013														
Doan Lieu	03/04/2013														
Michael P Galligan	03/18/2013														
Ye Liu	03/18/2013														
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>13722374</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13722374										
Property Type	Number														
Application Number:	13722374														
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:	PF72538/PF71668														
NAME OF SUBMITTER:	Melanie L. Brown														

CH \$40.00 13722374

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 9

source=PF72538_PF71668_Combined_Assignment_Declaration#page1.tif

source=PF72538_PF71668_Combined_Assignment_Declaration#page2.tif

source=PF72538_PF71668_Combined_Assignment_Declaration#page3.tif

source=PF72538_PF71668_Combined_Assignment_Declaration#page4.tif

source=PF72538_PF71668_Combined_Assignment_Declaration#page5.tif

source=PF72538_PF71668_Combined_Assignment_Declaration#page6.tif

source=PF72538_PF71668_Combined_Assignment_Declaration#page7.tif

source=PF72538_PF71668_Combined_Assignment_Declaration#page8.tif

source=PF72538_PF71668_Combined_Assignment_Declaration#page9.tif

COMBINED ASSIGNMENT AND DECLARATION

WHEREAS, Xiaolin David Yang, being a citizen of the United States, residing at 48 Netherwood Circle, Edison, NJ 08820; ; Pascalline Harrison Tran, being a citizen of the United States, residing at 11 Galloping Hill Road, Holmdel, NJ 07733; Qingyuan Hu, being a citizen of the United States, residing at 104 Windsong Circle, East Brunswick, NJ 08816; and Doan Lieu, being a citizen of the United States, residing at 728 Pompton Avenue, Cedar Grove, NJ 07009; Michael P. Galligan, being a citizen of the United States, residing at 4 Victoria Court, Cranford, NJ 07016; and Ye Liu, being a citizen of the United States residing at 136 Northampton Drive, 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

Hollow Microsphere Catalyst Support and Methods of Making Same

for which I (we) have executed an application for Letters Patent of the United States on December 20, 2012, having the serial number of 13/722,374; 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 13/722,374 filed on December 20, 2012.

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: 03/18/2013
MM/DD/YYYY

Xiaolin David Yang
Xiaolin David Yang

State of New Jersey
County of Middlesex

On this 18 day of March, 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared, Xiaolin David Yang, 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: 03/18/2013
MM/DD/YYYY

Pascaline Harrison Tran
Pascaline Harrison Tran

State of New Jersey
ss.:

County of Middlesex

On this 18 day of March, 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



6

Docket No. PF72538/PF71668
Serial No. 13/722,374

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

Date: 3/11/2013
MM/DD/YYYY

Qingyuan Hu
Qingyuan Hu

State of New Jersey
County of Middlesex

On this 11 day of MARCH 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared, Qingyuan Hu, 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 6/2/2017



7

Docket No. PF72538/PF71668
Serial No. 13/722,374

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

Date: 03-04-2013
MM/DD/YYYY

Doan Lieu
Doan Lieu

State of New Jersey
ss.
County of Middlesex

On this 4 day of March, 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared, Doan Lieu, 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: 03/18/2013
MM/DD/YYYY

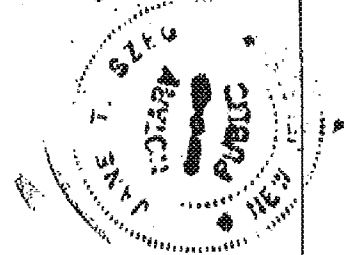
Michael P. Galligan
Michael P. Galligan

State of New Jersey
County of Mid Jersey

On this 18 day of March 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared, Michael P. Galligan, 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: 03/18/2013
MM/DD/YYYY

Ye Liu
Ye Liu

State of New Jersey
ss.:
County of Middlesex

On this 18 day of March, 2013 before me, a Notary Public in and for the State and County aforesaid, personally appeared, Ye 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

