

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	XUMU ZHANG	04/28/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	
<b>Street Address:</b>	OLD QUEEN'S, SOMERSET STREET	
<b>City:</b>	NEW BRUNSWICK	
<b>State/Country:</b>	NEW JERSEY	
<b>Postal Code:</b>	08909	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>PCT Number:</b>	US1423519	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(609)896-1469	
<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>	609-896-3600	
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<b>Correspondent Name:</b>	FOX ROTHSCHILD LLP PRINCETON PIKE CORPOR	
<b>Address Line 1:</b>	997 LENOX DRIVE	
<b>Address Line 2:</b>	BLDG. #3	
<b>Address Line 4:</b>	LAWRENCEVILLE, NEW JERSEY 08648	
<b>ATTORNEY DOCKET NUMBER:</b>	070439.00949	
<b>NAME OF SUBMITTER:</b>	MIYUKI SHIMIZU	
<b>SIGNATURE:</b>	/Miyuki Shimizu/	
<b>DATE SIGNED:</b>	06/26/2014	
<b>Total Attachments: 2</b>		
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source=Exec_Assignment#page2.tif		

## ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00) and for other good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNOR:

Name	Address
Xumu Zhang	28 Meadowlark Drive, Plainsboro, New Jersey 08536, UNITED STATES OF AMERICA

hereby sells, assigns and transfers to:

ASSIGNEE:

Name	Address
Rutgers, The State University of New Jersey	Old Queen's, Somerset Street, New Brunswick, New Jersey 08909

and the successors, assigns and legal representatives of the ASSIGNEE, entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to the invention entitled:

Metallorganocatalysis, Design and Synthesis of Efficient Catalysts

invented by Zhang and which is found in:

- ☐ the U.S. patent application executed on even date herewith;
- ☐ the U.S. patent application executed on
- ☐ the U.S. patent application no.: filed:
- ☒ the International Application no. PCT/US14/23519 filed: March 11, 2014
- ☐ the U.S. patent no. issued on ;

and, in and to all Letters Patent, both foreign and domestic, to be obtained for said invention by the aforesaid U.S. patent application, and in and to all Non-Provisional and International Applications claiming priority therefrom, and all Letters Patent, both foreign and domestic, to be obtained for said invention by the aforesaid Non-Provisional and International Applications claiming priority therefrom, and all continuation, division, renewal, continuation-in-part or substitute of said Non-Provisional U.S. Patent Applications, and as to Letters Patent and any reissue or re-examination thereof, and to any legal equivalent thereof in a foreign country, including, the right to apply for patents and inventor certificates in respect thereof, the right to claim priority, and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of the invention.

ASSIGNOR hereby authorizes ASSIGNEE or its legal representative to insert in this instrument the filing date and serial number of said application or any other information that

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may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for the recordation of this document.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants and agrees that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR, and that ASSIGNOR will, at ASSIGNEE's expense, testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE, its assigns or its legal representatives, without further or additional consideration, any and all papers, instruments or affidavits required, render all necessary assistance, and do such additional acts as ASSIGNEE may deem necessary or desirable, to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE sole use and benefit, and for the use and benefit of ASSIGNEE legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

The parties agree that the foregoing covenants and obligations shall bind and inure to the benefit of the heirs, assigns and legal representatives of both parties.

Name:   
Xumu Zhang

Date: 4/28/2014

State of New Jersey  
County of Middlesex

Before me this 28<sup>th</sup> day of April, 2014, personally, Xumu Zhang,  
the above named individual, to me known to be the person described in, and who executed  
the foregoing instrument and acknowledged to me that he/she executed the same of his/her own  
will for the purposes therein expressed.

  
Notary Public

**Cindy J. Olsson**  
Notary Public, State of New Jersey  
My Commission Expires  
February 1, 2015 070438.00949