

## 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>	
	MUKHLES IBRAHIM SOWWAN	10/26/2017	
	CATHAL CASSIDY	10/26/2017	
	VIDYA DHAR SINGH	10/26/2017	
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<b>State/Country:</b>	JAPAN		
<b>Postal Code:</b>	904-0495		
<b>PROPERTY NUMBERS Total: 1</b>			
	<b>Property Type</b>	<b>Number</b>	
	<b>Application Number:</b>	15736721	
<b>CORRESPONDENCE DATA</b>			
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<b>NAME OF SUBMITTER:</b>	MIWA TYBURSKI		
<b>SIGNATURE:</b>	/Miwa Tyburski/		
<b>DATE SIGNED:</b>	12/14/2017		
	This document serves as an Oath/Declaration (37 CFR 1.63).		
<b>Total Attachments: 2</b>			
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**COMBINED DECLARATION AND ASSIGNMENT  
FOR UTILITY APPLICATION**

**Title of  
Invention**

ENGINEERING HIGH-PERFORMANCE PALLADIUM CORE MAGNESIUM OXIDE POROUS  
SHELL NANOCATALYSTS VIA HETEROGENEOUS GAS-PHASE SYNTHESIS

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration  
is directed to:

☐ The attached application, or

☒ United States application or PCT international application  
number PCT/JP2016/003093 filed on June 28, 2016.

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

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

I/we believe that I am/we are the original inventor(s) or original joint inventor(s) of a claimed invention in the application.

I/we 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.

**ASSIGNMENT**

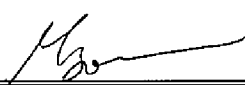
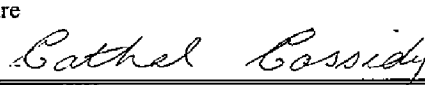
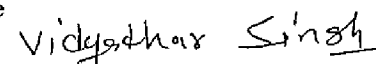
WHEREAS, OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY SCHOOL CORPORATION, a special private school corporation of Japan, whose post office address is 1919-1 Tancha, Onna-son, Kunigami-gun, Okinawa 904-0495, Japan, (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/WE have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Power of Attorney in this application, to insert here in parenthesis (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set MY/OUR hand(s).

Legal Name of Sole or First Inventor Mukhles Ibrahim SOWWAN	
Signature 	Date 26 <sup>th</sup> Oct 2017
Legal Name of Second Inventor Cathal CASSIDY	
Signature 	Date 26 <sup>th</sup> OCT 2017
Legal Name of Third Inventor Vidya Dhar SINGH	
Signature 	Date 26 <sup>th</sup> Oct. 2017