

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5541008

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THATT YANG TIMOTHY TAN	01/08/2018
ZHIPING ZENG	01/08/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NANYANG TECHNOLOGICAL UNIVERSITY
<b>Street Address:</b>	50 NANYANG AVENUE
<b>City:</b>	SINGAPORE
<b>State/Country:</b>	SINGAPORE
<b>Postal Code:</b>	639798
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16464241
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)623-4846
<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>	7136234844
<b>Email:</b>	mcorona@pattersonsheridan.com,rjohnson@pattersonsheridan.com
<b>Correspondent Name:</b>	WILLIAM B. PATTERSON
<b>Address Line 1:</b>	24 GREENWAY PLAZA, SUITE 1600
<b>Address Line 2:</b>	PATTERSON + SHERIDAN LLP
<b>Address Line 4:</b>	HOUSTON, TEXAS 77046
<b>ATTORNEY DOCKET NUMBER:</b>	MRKS/X030USP
<b>NAME OF SUBMITTER:</b>	WILLIAM B. PATTERSON
<b>SIGNATURE:</b>	/William B. Patterson; Reg. No.34,102/
<b>DATE SIGNED:</b>	05/24/2019
<b>Total Attachments: 3</b>	
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## **ASSIGNMENT**

**WHEREAS,**

Timothy TAN Thatt Yang, a citizen of Singapore, of c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798,

ZENG Zhiping, a citizen of China, of c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798,

(hereinafter referred to as 'ASSIGNORS') have invented an improvement in MULTI-LAYERED METAL-CARBON MATERIALS-BASED NANOARCHITECTURES (file FP9132) and have executed a PCT application based thereon filed 29 Nov 2017 under application number PCT/SG2017/050588;

AND, WHEREAS, Nanyang Technological University, a company limited by guarantee incorporated in Singapore under the Companies Act (Chapter 50) of 50 Nanyang Avenue, Singapore 639798,

(hereinafter referred to as ASSIGNEE) is desirous of acquiring certain rights thereunder,

NOW, THEREFORE, for one Singapore dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, ASSIGNORS have agreed to and do hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said PCT application, any United States applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole or in part on said PCT application or in whole or in part on said invention, any foreign applications based in whole or in part on said PCT application or in whole or in part on said invention, including the right to claim priority therefrom, and any right to priority claimed in said PCT application, and any and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had no sale and assignment of said interest been made;


AND ASSIGNORS hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States patents which may be granted upon any

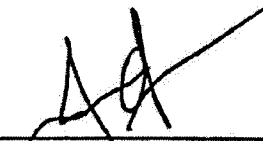
United States patent applications based in whole or in part on the aforesaid PCT application, or upon said invention or any part thereof, to said ASSIGNEE;

AND ASSIGNORS hereby jointly and severally agree for themselves and for their respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

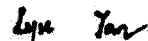
AND ASSIGNORS hereby jointly and severally covenant for themselves and their respective legal representatives that no right or license has been granted to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this agreement the right, title and interest in said invention had not been otherwise encumbered, and that no instrument will be executed in conflict herewith.

IN WITNESSETH thereof this agreement has been executed by ASSIGNORS and duly authorized representatives of ASSIGNEE.

  
Name: Timothy TAN Thatt Yang  
Date: Jan 20th 2018

  
Witness: Tan Chang Hian .

  
Name: ZENG Zhiping  
Date: Jan 8th 2018

  
Witness: Lyn Tan

For and on behalf of Nanyang Technological University

\_\_\_\_\_  
Name:  
Position:  
Date:

\_\_\_\_\_  
Witness:

United States patent applications based in whole or in part on the aforesaid PCT application, or upon said invention or any part thereof, to said ASSIGNEE;

AND ASSIGNORS hereby jointly and severally agree for themselves and for their respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND ASSIGNORS hereby jointly and severally covenant for themselves and their respective legal representatives that no right or license has been granted to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this agreement the right, title and interest in said invention had not been otherwise encumbered, and that no instrument will be executed in conflict herewith.

IN WITNESSETH thereof this agreement has been executed by ASSIGNORS and duly authorized representatives of ASSIGNEE.


\_\_\_\_\_  
Name: Timothy TAN Thatt Yang  
Date:

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Witness:

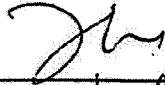
\_\_\_\_\_  
Name: ZENG Zhiping  
Date:

\_\_\_\_\_  
Witness:

For and on behalf of Nanyang Technological University

  
\_\_\_\_\_  
Name: Dr. Lim Jui  
Position: Chief Executive Officer (NTU Innovation)  
Date: President's Office

15 JAN 2018

  
\_\_\_\_\_  
Witness: Jennifer Lim