PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHIA-LING CHEN	04/02/2010
DONGLLEI FAN	03/23/2010
ROBERT CHARLES CAMMARATA	04/02/2010

RECEIVING PARTY DATA

Name:	THE JOHNS HOPKINS UNIVERSITY	
Street Address:	3400 NORTH CHARLES STREET	
City:	BALTIMORE	
State/Country:	MARYLAND	
Postal Code:	21218	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14675306

CORRESPONDENCE DATA

Fax Number: (202)344-8300

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.

Phone: 2023444000

Email: elwright@venable.com

Correspondent Name: HENRY J. DALEY

Address Line 1: 575 7TH STREET, N.W.

Address Line 4: WASHINGTON, D.C. 20004

ATTORNEY DOCKET NUMBER:	02240-377535	
NAME OF SUBMITTER:	HENRY J. DALEY	
SIGNATURE:	/Henry J. Daley/	
DATE SIGNED:	04/17/2015	

Total Attachments: 2

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PATENT 503269680 REEL: 035438 FRAME: 0232

Docket: 02240-285165

WORLDWIDE ASSIGNMENT

WHEREAS, Chia-Ling CHIEN, Donglei FAN, and Robert Charles CAMMARATA, hereinafter (collectively) referred to as the Assignor, have invented a certain improvement relating to SYSTEM AND METHOD FOR PRECISION TRANSPORT, POSITIONING, AND ASSEMBLING OF LONGITUDINAL NANO-STRUCTURES, for which said Assignor has caused an application for a United States Patent to be prepared,

- [] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the U.S. Patent and Trademark Office;
- [X] said U. S. Provisional Application having been filed in the U.S. Patent and Trademark Office on March 3, 2010, and given Application No. 61/157.032.
- [X] said application having been filed under the Patent Cooperation Treaty on March 3, 2010. and given Application No. PCT/US2010/026077 the United States of America having been designated.

AND WHEREAS, The Johns Hopkins University, 3400 N. Charles Street, Baltimore, Maryland 21218, hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any divisions and continuations thereof, and in and to said invention and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by Assignee to Assigner, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire and exclusive right, title, and interest for the United States in and to the invention, the application, and any patents which may be granted therefor, including any and all divisions, continuations, in whole or in part, substitutions, renewals, reissues, reexaminations, and extensions thereof, and all applications claiming priority therefrom; and Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as their interest is concerned, to Assignee; to have, hold, exercise, and enjoy, with all the rights, powers, privileges, and advantages in anywise arising therefrom or appertaining thereto, for and during the term or terms of any and all such patents when granted, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made.

Assignor further hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in all countries of the world, in and to the invention and in and to the application and all patents which may be granted therefor, and all national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the applicable patent office in each country of the world to issue all patents for the invention, or patents resulting therefrom, insofar as its interest is concerned, to the Assignee, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.

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114 WITHESS WHEREOF, cach marriagal collective	ely referred to as Assignor has caused this Assignment to be executed.
EXECUTED this 2 day of Apr: 1 2010.	
ASSIGNOR: Chia Ling CHIEN	WITNESS:
Signature:	Signature:
Signature: Chis-Ling Chien	Name:
	Address:
EXECUTED this 23 day of March, 2010.	
ASSIGNOR: Donglei FAN	WITNESS:
Signature: Down Yan Name: Down lei Fan	Signature:
Name: Donaloi For	Name:
	Address:
V	
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EXECUTED this 2 day of april, 2010	•
EXECUTED this day of, 2010.	
ASSIGNOR: A Robert Charles CAMMARATA	WITNESS:
Signature: 10 484 (har les humants	Signature:
Mamar	Name:
Robert Charles Commant	Address:
1-01/11 -	

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RECORDED: 04/17/2015