

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5507881

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHERIE R. KAGAN	07/29/2016
HAN WANG	07/29/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
<b>Street Address:</b>	3600 CIVIC CENTER BOULEVARD
<b>Internal Address:</b>	9TH FLOOR
<b>City:</b>	PHILADELPHIA
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19104
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16091119
<b>Application Number:</b>	62319395
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	103241.006232 / 16-7875
<b>NAME OF SUBMITTER:</b>	FAITH A. POORE
<b>SIGNATURE:</b>	/Faith A. Poore/
<b>DATE SIGNED:</b>	05/06/2019
<b>Total Attachments: 5</b>	
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**PATENT**

**REEL: 049087 FRAME: 0716**

ASSIGNMENT

WHEREAS, we, Cherie R. Kagan, Han Wang, and Soong Ju Oh, hereinafter referred to as the assignor, residing at 22 Derwen Road, Bala Cynwyd, Pa 19004; 3160 Chestnut Street, Philadelphia, PA 19104 and 3160 Chestnut Street, Philadelphia, PA 19104; respectively, are the inventors of certain inventions or improvements for which we have filed a provisional application in the United States Patent and Trademark Office, identified as Application No. 62/319,395, filed April 7, 2016, entitled COLLOIDAL NANOCRYSTAL ELECTRONIC DEVICES AND METHODS FOR PRODUCING COLLOIDAL NANOCRYSTAL ELECTRONIC DEVICES; and

WHEREAS, The Trustees Of The University Of Pennsylvania hereinafter referred to as the assignee, of 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104, a university of higher education in Pennsylvania, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said provisional application, and to any patent application(s) corresponding thereto, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

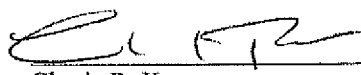
NOW, THEREFORE, for and in exchange for valuable consideration from the receipt of which is hereby acknowledged and intending to be bound, we, the said assignors, have sold, assigned, transferred and set over, effective as of \_\_\_\_\_, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said provisional application and any and all corresponding patent application(s) and continuations, divisions and renewals of and substitutes for said corresponding patent application(s), and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names corresponding patent applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND 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 we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said provisional application, said corresponding patent application(s) and said Letters Patent to said assignee, its successors, assigns, nominees or legal representatives, and we agree to communicate to said assignee, or to its nominee all known facts respecting said inventions or improvements, said provisional application, said corresponding patent application(s) and said Letters Patent, to testify in any

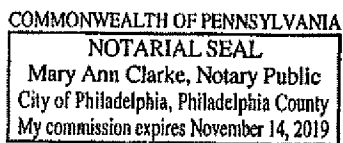
legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks 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 any applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of any corresponding patent application(s) aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

7/29/16  
Date  
Cherie R. Kagan (L.S.)STATE OF PENNSYLVANIA :  
COUNTY OF PHILADELPHIA : SS

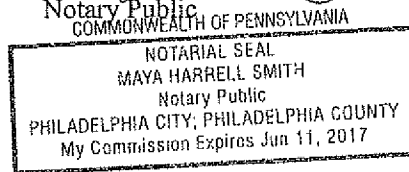
On this 29 day of July, year of 2016, before me personally came the above named Cherie R. Kagan to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

  
Notary Public

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

07/29/2016  
DateHan Wang (L.S.)  
Han WangSTATE OF Pennsylvania :  
COUNTY OF Philadelphia : SS

On this 29 day of July, year of 2016, before me personally came the above named Han Wang to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Maya Harrell Smith  
Notary Public

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

\_\_\_\_\_  
Date Soong Ju Oh (L.S.)

STATE OF \_\_\_\_\_ :  
: SS  
COUNTY OF \_\_\_\_\_ :

On this \_\_\_\_\_ day of \_\_\_\_\_, year of 2016, before me personally came the above named Soong Ju Oh to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public

**STATEMENT OF WITNESS**

SIGNED at \_\_\_\_\_  
(City) (Country)

This \_\_\_\_\_ day of \_\_\_\_\_, 2016.

\_\_\_\_\_  
I, \_\_\_\_\_ whose full  
residence address is \_\_\_\_\_

\_\_\_\_\_  
was personally present and did see Soong Ju Oh execute the above assignment on the  
\_\_\_\_\_ day of \_\_\_\_\_, 2016, and such assignor is personally known to me to be  
the person described in such document.

\_\_\_\_\_  
Signature of Witness