

PATENT ASSIGNMENT

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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>       |
| Li HAN   | 10/28/2010                  |
| Anthony L. ANDRADY   | 02/04/2010                  |
| James Lynn DAVIS   | 11/01/2010                  |
| <b>RECEIVING PARTY DATA</b>  |                             |
| <b>Name:</b>   | RESEARCH TRIANGLE INSTITUTE |
| <b>Street Address:</b>   | 3040 Cornwallis Road        |
| <b>City:</b>   | Research Triangle Park      |
| <b>State/Country:</b>  | NORTH CAROLINA              |
| <b>Postal Code:</b>  | 27709                       |
| <b>PROPERTY NUMBERS Total: 1</b>   |                             |
| <b>Property Type</b>   | <b>Number</b>               |
| <b>Application Number:</b>   | 12992112                    |
| <b>CORRESPONDENCE DATA</b>   |                             |
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| <b>Correspondent Name:</b>   | Oblon, Spivak, et al.       |
| <b>Address Line 1:</b>   | 1940 Duke Street            |
| <b>Address Line 4:</b>   | Alexandria, VIRGINIA 22314  |
| <b>ATTORNEY DOCKET NUMBER:</b>   | 370150US20PCT               |
| <b>NAME OF SUBMITTER:</b>  | Adel Samuel                 |
| <b>Total Attachments: 3</b><br>source=370150USAssignment#page1.tif<br>source=370150USAssignment#page2.tif<br>source=370150USAssignment#page3.tif |                             |

OP \$40.00 12992112

370150US20PCT

### Assignment of Application

INVENT NAMES AND RESIDENCE ADDRESSES OF THE INVENTORS

WHEREAS, I (WE) 1) LI HAN of:

507 Kellyridge Drive, Apex, North Carolina, 27502 United States

2) Anthony L. ANDRADY of:

102 Hasbrouck Drive, Apex, North Carolina 27502, United States

3) James Lynn DAVIS of:

5128 Salem Ridge Road, Holly Springs, North Carolina 27540, United States

respectively,

INVENT TITLE OF INVENTION

have invented certain new and useful improvements in: POROUS AND NON-POROUS NANOSTRUCTURES AND APPLICATION THEREOF

(Application No. 12/992,112, filed November 11, 2010), and

WHEREAS, RESEARCH TRIANGLE INSTITUTE

INVENT NAME AND ADDRESS OF COMPANY OR OTHER ASSIGNEE

(hereinafter referred to as "ASSIGNEE") having a place of business at 3040 Cornwallis Road, Research Triangle Park, North Carolina 27709, United States is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

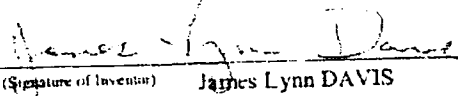
Date: 10/28/2010

  
(Signature of Inventor) Li HAN

Date: \_\_\_\_\_

(Signature of Inventor) Anthony L. ANDRADY

Date: 11/11/2010

  
(Signature of Inventor) James Lynn DAVIS

Date: \_\_\_\_\_

(Signature of Inventor)

Date: \_\_\_\_\_

(Signature of Inventor)

Date: \_\_\_\_\_

(Signature of Inventor)

**OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.**  
ATTORNEYS AT LAW  
1940 DUKE STREET  
ALEXANDRIA, VIRGINIA 22314

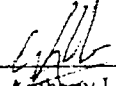
Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

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Date: \_\_\_\_\_

(Signature of Inventor) Li HAN

Date: \_\_\_\_\_

(Signature of Inventor)  4 Feb 2010  
Anthony L. ANDRADY

Date: \_\_\_\_\_

(Signature of Inventor) James Lynn DAVIS

Date: \_\_\_\_\_

(Signature of Inventor)

Date: \_\_\_\_\_

(Signature of Inventor)

Date: \_\_\_\_\_

(Signature of Inventor)

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