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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5879298

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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>                 |
| SETH B. DARLING   | 09/14/2011                            |
| JEFFREY W. ELAM   | 09/14/2011                            |
| YU-CHIH TSENG   | 09/14/2011                            |
| QING PENG   | 12/01/2011                            |
| <b>RECEIVING PARTY DATA</b>   |                                       |
| <b>Name:</b>  | UCHICAGO ARGONNE, LLC                 |
| <b>Street Address:</b>  | 5801 SOUTH ELLIS AVENUE               |
| <b>City:</b>  | CHICAGO                               |
| <b>State/Country:</b>   | ILLINOIS                              |
| <b>Postal Code:</b>   | 60637                                 |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                       |
| <b>Property Type</b>  | <b>Number</b>                         |
| <b>Application Number:</b>  | 16721667                              |
| <b>CORRESPONDENCE DATA</b>  |                                       |
| <b>Fax Number:</b>  |                                       |
| <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>   | 312-832-4559                          |
| <b>Email:</b>   | jwiggins@foley.com                    |
| <b>Correspondent Name:</b>  | MATTHEW E. MARTIN/FOLEY & LARDNER LLP |
| <b>Address Line 1:</b>  | 321 N. CLARK STREET                   |
| <b>Address Line 2:</b>  | SUITE 2800                            |
| <b>Address Line 4:</b>  | CHICAGO, ILLINOIS 60654               |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 051583-0916                           |
| <b>NAME OF SUBMITTER:</b>   | MATTHEW E. MARTIN                     |
| <b>SIGNATURE:</b>   | /Matthew E. Martin/                   |
| <b>DATE SIGNED:</b>   | 12/20/2019                            |
| <b>Total Attachments: 2</b>   |                                       |
| source=051583-0916-Executed-Assignment#page1.tif  |                                       |
| source=051583-0916-Executed-Assignment#page2.tif  |                                       |

ASSIGNMENT

We, Seth B. Darling of Chicago, Jeffrey W. Elam of Elmhurst, and Yu-Chih Tseng of Westmont, all in the State of Illinois, for good and valuable considerations to us in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto UChicago Argonne, LLC, having a place of business at 5801 South Ellis Avenue, Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by us and disclosed in the patent application for the ORDERED NANOSCALE DOMAINS BY INFILTRATION OF BLOCK CO-POLYMERS, ANL-IN-10-017, filed in the U. S. Patent and Trademark Office on August 12, 2011 as Application Serial # 13/209,190, which claims the benefit of U. S. Provisional Application Serial # 61/374,349 filed in the U. S. Patent and Trademark Office on August 17, 2010, executed by us on the date hereinafter set forth, and any divisions and continuations thereof and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as we could have done if the application had been in our names, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; 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 Letters Patent, Inventors Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UChicago Argonne, LLC, its successors and assigns.

And for the above-named considerations, we hereby agree that we will without additional compensation but without cost to ourselves, promptly communicate to UChicago Argonne, LLC, its successors and assigns, any facts known to us respecting said invention whenever requested, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications for Letters Patent, Inventor's Certificates, Utility Models and Designs and assignments thereof, make all rightful oaths and generally do everything possible to aid said assignee, its successors and assigns, as and when requested by them, in obtaining and enforcing proper Letters Patents, Inventor's Certificate, Utility Model and Design protection for said invention or inventions and improvements, in the United States and in all other countries.

Dated: 9/14/11

[Signature]  
Seth B. Darling

Dated: 9/14/2011

[Signature]  
Jeffrey W. Elam

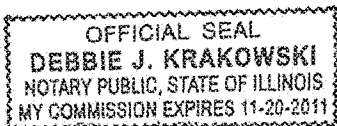
Dated: 9/14/2011

[Signature]  
Yu-Chih Tseng

STATE OF ILLINOIS )  
 ) ss  
COUNTY OF DU PAGE )

On this 14<sup>th</sup> day of September 2011, before me a Notary Public in and for the County and State aforesaid, appeared the above named persons, who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed same instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

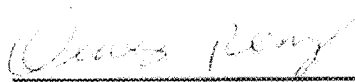
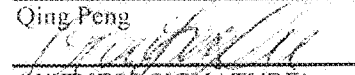


[Signature]  
Notary Public

ASSIGNMENT

I, Qing Peng of Downers Grove in the state of Illinois, for good and valuable considerations to me in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto UChicago Argonne, LLC, having a place of business at 5801 South Ellis Avenue, Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by me and disclosed in the patent application for the ORDERED NANOSCALE DOMAINS BY INFILTRATION OF BLOCK CO-POLYMERS, ANL- IN-10-017, filed in the U. S. Patent and Trademark Office as Application Serial # 13/209,190 dated August 12, 2011, which claims the benefit of U. S. Provisional Application Serial # 61/374,349 filed in the U.S. Patent and Trademark Office on September August 17, 2010 and any divisions and continuations thereof and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as I could have done if the application had been in my name, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; and I 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 Letters Patent, Inventors Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UChicago Argonne, LLC, its successors and assigns.

And for the above-named considerations, I hereby agree that I will without additional compensation but without cost to myself, promptly communicate to said UChicago Argonne, LLC, its successors and assigns, any facts known to me respecting said invention whenever requested, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications for Letters Patent, Inventor's Certificates, Utility Models and Designs and assignments thereof, make all rightful oaths and generally do everything possible to aid said assignee, its successors and assigns, as and when requested by them, in obtaining and enforcing proper Letters Patents, Inventor's Certificate, Utility Model and Design protection for said invention or inventions and improvements, in the United States and in all other countries.

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|--|-------------------|--------------------|-------------------|
| <u></u> | <u>10/01/2011</u> |                    |                   |
| Qing Peng  | Date              |                    |                   |
| <u></u> | <u>12/01/2011</u> | <u>Gaopeng Lu</u>  | <u>12/01/2011</u> |
| (WITNESS SIGNATURE)  | Date              | PRINT WITNESS NAME | Date              |