

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ALBERT MACRANDER | 08/21/2015 |
| RECEIVING PARTY DATA | |
| Name: | UCHICAGO ARGONNE, LCC |
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| State/Country: | ILLINOIS |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13371124 |
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| ATTORNEY DOCKET NUMBER: | BSA 11-15 |
| NAME OF SUBMITTER: | DORENE M. PRIC4E |
| SIGNATURE: | /Dorene M. Price/ |
| DATE SIGNED: | 08/25/2015 |
| Total Attachments: 1 | |
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ASSIGNMENT

I, Albert Macrander, of the City of Naperville, 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 ANL-IN-12-092 entitled, "TECHNIQUE FOR ETCHING MONOLAYER AND MULTILAYER MATERIALS" which claims the benefit of the U. S. Nonprovisional Application, Serial No. 13/371,124 filed in the United States Patent and Trademark Office on February 10, 2012 and the U. S. Provisional Application Serial No. 61/442,040 filed February 11, 2011 in the United States Patent and Trademark Office and the U. S. Provisional Application Serial No. 61/504,013 filed in the United States Patent and Trademark Office on July 13, 2011, executed by me 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 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 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.

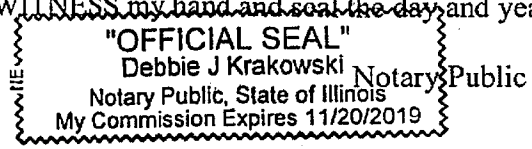
Dated: Aug. 21, 2015

Albert Macrander
Albert Macrander

STATE OF ILLINOIS)
COUNTY OF DuPage) ss

On this 21st day of August, 2015 before me a Notary Public in and for the County and State aforesaid, appeared the above named person, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed same instrument as his free and voluntary act and for the uses and purposes therein expressed.

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



Debbie J Krakowski
Notary Public

PATENT