504258948 03/07/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD D. SCHALLER	02/07/2017

RECEIVING PARTY DATA

Name:	UCHICAGO ARGONNE, LLC
Street Address:	5801 SOUTH ELLIS AVENUE
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60637

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15424029

CORRESPONDENCE DATA

Fax Number: (414)271-5770

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: (414) 271-7590

Email:tolgag@andruslaw.comCorrespondent Name:TOLGA S. GULMENAddress Line 1:100 EAST WISCONSIN

Address Line 2: SUITE 1100

Address Line 4: MILWAUKEE, WISCONSIN 53202

ATTORNEY DOCKET NUMBER:	5369-00343
NAME OF SUBMITTER:	TOLGA S. GULMEN
SIGNATURE:	/Tolga S. Gulmen/
DATE SIGNED:	03/07/2017

Total Attachments: 2

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PATENT 504258948 REEL: 041480 FRAME: 0492

ASSIGNMENT

I, Richard D. Schaller of the City of Clarendon Hills, 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 ANL-IN-16-002 entitled, "ULTRAFAST ALL-OPTICAL MODULATION OF THE VISIBLE AND INFRARED SPECTRUM WITH TIN-DOPEN INDIUM OXIDE NANOROD ARRAYS, which was filed in the United States Patent and Trademark Office on February 3, 2017 and assigned U. S. Application Serial No.15/424,029, claiming the benefit of U. S. Provisional Application Serial No. 62/290,908 filed in the United States Patent and Trademark Office on February 3, 2016, 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: 2 - 7 - 201

Richard D. Schaller

STATE OF ILLINOIS

COUNTY OF 44 C

On this 7th day of February 2017 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.

Deseri)

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

Notary Public

"OFFICIAL SEAL"
Debble J Krakowski
Cydley Public, State of Minois
Deficulission Expires 11/20/2019
PATENT

REEL: 041480 FRAME: 0493

ASSIGNEE ACCEPTANCE:

UCHICAGO ARGONNE, LLC

On behalf of UChicago Argonne, LLC, Assignee, the authorized signatory below, hereby confirms Assignee's acceptance of all rights, privileges, titles and interests conveyed by this Assignment.

Authorized Signature:

Date: 2/7/2017

Printed Name: <u>Mark D. Hilliard</u>

Title: Chief Patent Counsel

U. S. Application Serial Number: 15/424,029

Filing Date: February 3, 2017

RECORDED: 03/07/2017

ANL Inventor: Richard D. Schaller

IN-16-002 ULTRAFAST ALL-OPTICAL MODULATION OF THE VISIBLE AND INFRARED SPECTRUM WITH

TIN-DOPED INDIUM OXIDE NANOROD ARRAYS

PATENT REEL: 041480 FRAME: 0494