

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3745508

| | |
|---|---------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JUNG-TSUNG SHEN | 05/22/2015 |
| LIHONG WANG | 05/22/2015 |
| YUECHENG SHEN | 05/22/2015 |
| RECEIVING PARTY DATA | |
| Name: | WASHINGTON UNIVERSITY |
| Street Address: | ONE BROOKINGS DRIVE |
| City: | ST. LOUIS |
| State/Country: | MISSOURI |
| Postal Code: | 63130 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15046725 |
| CORRESPONDENCE DATA | |
| Fax Number: | (314)612-2307 |
| <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> | |
| Phone: | 314-621-5070 |
| Email: | uspatents@armstrongteasdale.com |
| Correspondent Name: | MICHAEL G. MCCAY |
| Address Line 1: | ARMSTRONG TEASDALE LLP |
| Address Line 2: | 7700 FORSYTH BLVD, SUITE 1800 |
| Address Line 4: | ST. LOUIS, MISSOURI 63105 |
| ATTORNEY DOCKET NUMBER: | 15060-644 (011141-DIV1/1) |
| NAME OF SUBMITTER: | MICHAEL G. MCCAY |
| SIGNATURE: | /Michael G. McCay/ |
| DATE SIGNED: | 02/18/2016 |
| Total Attachments: 3 | |
| source=20484064_1#page1.tif | |
| source=20484064_1#page2.tif | |
| source=20484064_1#page3.tif | |

ASSIGNMENT AGREEMENT

ASSIGNORS:

Jung-Tsung Shen

Lihong Wang

Yuecheng Shen

WHEREAS, the aforementioned individuals (the "ASSIGNORS") have invented certain new and useful apparatus, methods, compositions, inventions, discoveries and/or improvements disclosed in US Patent Application Serial No. 14/047,459 filed October 7, 2013 and entitled "Imaging Using Metamaterials;

AND WHEREAS, Washington University, having an address located at One Brookings Drive, St. Louis, Missouri 63130 (hereinafter the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application(s) and the apparatus, inventions, discoveries, methods, compositions, and improvements therein disclosed;

NOW THEREFORE, for good and valuable consideration paid to us by said Assignee, including certain rights to share in royalties and other payments in accordance with Assignee's intellectual property policy, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said Assignee the entire right, title, and interest in and to said application(s) and the apparatus, methods, compositions, inventions, discoveries and improvements therein disclosed for the United States of America and its territories and all foreign countries and any Letters Patent which may issue therefor in the United States and its territories and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, including the right to apply for Letters Patents in each foreign country and the United States of America and its territories, in its own name and to claim any and all priority rights under the International Convention, other conventions, treaties, or otherwise associated therewith for each country and the United States of America and its territories, said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this Assignment not been made.

The U.S. Patent and Trademark Office is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application(s), apparatus, methods, compositions, inventions, discoveries and improvements, that the same are unencumbered, that no license has been granted to make, use, or sell the said apparatus, methods, compositions, inventions, discoveries or improvements, and that we have the full right to make this Assignment.

And for said consideration, we agree individually that we will communicate to said Assignee or the representatives thereof any facts known to me respecting said apparatus, methods, compositions, inventions, discoveries and improvements, and will, upon request, but without

expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interests herein assigned.

And for said consideration, the undersigned hereby agrees to execute, at the request of said Assignee, all documents in connection with any application for foreign letters patent therefor.

Assignors hereby grant to Assignee and its agents and attorneys the power and right to insert herein the title, serial number and filing date of the application, the OTM case number and title of the application after this Assignment is executed by the Assignors.

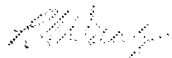
This Assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee.

SIGNATURE PAGE(S) FOLLOWS:

Date: 05/22/2015 
Jung-Tsung Shen

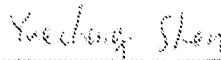
39 Ladel Ct
Residential Street Address

Olverne, MO 63132
Residential City, State, Zip Code

Date: 01/01/16 
Lihong Wang

15 Haven View Dr.
Residential Street Address


Creve Coeur, MO
63141
Residential City, State, Zip Code

Date: 5/17/2015 
Yuecheng Shen

606 West Centerville Rd Apt D
Residential Street Address

St. Louis MO 63132
Residential City, State, Zip Code

Accepted on behalf of the Assignee: Washington University


Signature, Interim Director Technology Management

6/1/15
Date