

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
STUART LINDSAY	03/19/2014
PEIMING ZHANG	03/20/2014
RECEIVING PARTY DATA	
Name:	ARIZONA BOARD OF REGENTS, ACTING FOR AND ON BEHALF OF ARIZONA STATE UNIVERSITY
Street Address:	1475 N. SCOTTSDALE ROAD
Internal Address:	SUITE 200
City:	SCOTTSDALE
State/Country:	ARIZONA
Postal Code:	85257
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	61772884
PCT Number:	US2014020789
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	43639-510001WO
NAME OF SUBMITTER:	BRIAN P. HOPKINS
SIGNATURE:	/BRIAN P. HOPKINS/
DATE SIGNED:	03/21/2014
Total Attachments: 4 source=Assignment - Fully#page1.tif	

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Assignment

We, **Stuart LINDSAY**, a citizen of the United States of America residing at 3229 E. Desert Lane, Phoenix, Arizona 85042, United States of America, and **Peiming ZHANG**, a citizen of the United States of America residing at 1554 E. Douglas Avenue, Gilbert, Arizona 85234, United States of America, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to **ARIZONA BOARD OF REGENTS, ACTING FOR AND ON BEHALF OF ARIZONA STATE UNIVERSITY**, with offices at 1475 N. Scottsdale Road, Suite 200, Scottsdale, Arizona 85257-9908, United States of America, and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE:

- (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in any and all of:
 - **PCT/US2014/020789**, filed with the U.S. Patent and Trademark Office on **March 5, 2014**;
 - **U.S. Application No. 61/772,884**, filed with the U.S. Patent and Trademark Office on **March 5, 2013**,including any and all patents and patent applications claiming benefit thereof, and any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions of such patents and applications, and any substitute applications therefor;
- (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world;
- (3) the entire right, title and interest in and to any Letters Patent which may issue on said utility application or on any continuation or divisional applications thereof in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and
- (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patents in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 3/19/14

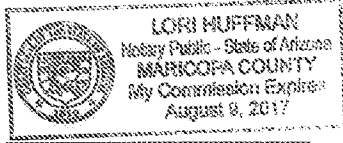
[Signature]
Signature of: Stuart Lindsay

The undersigned declare(s) that he/she was/were personally present and did witness the above-named individual execute this Assignment of his/her own free will for the purposes set forth herein.

Signature of witness: [Signature]

Name of witness: [Print or Type Name] Lori Huffman

3/19/14
Date



Date: 3/20/2014

Peiming Zhang
Signature of: Peiming Zhang

The undersigned declare(s) that he/she was/were personally present and did witness the above-named individual execute this Assignment of his/her own free will for the purposes set forth herein.

Signature of witness: *Lori Huffman*
Name of witness: [Print or Type Name] Lori Huffman Date 3/20/14

