

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

EPAS ID: PAT3636783

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ZHIGANG Z FANG	11/17/2015
YANG XIA	10/27/2015
PEI SUN	10/27/2015
YING ZHANG	11/17/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	UNIVERSITY OF UTAH
<b>Street Address:</b>	201 S. PRESIDENTS CIRCLE
<b>City:</b>	SALT LAKE CITY
<b>State/Country:</b>	UTAH
<b>Postal Code:</b>	84112
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14950346
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(801)566-0750
<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>	801-566-6633
<b>Email:</b>	andrea.phillips@tnw.com
<b>Correspondent Name:</b>	ERIK S. ERICKSEN
<b>Address Line 1:</b>	8180 S. 700 E., SUITE 350
<b>Address Line 4:</b>	SANDY, UTAH 84070
<b>ATTORNEY DOCKET NUMBER:</b>	00846-U5545.PCT.NP
<b>NAME OF SUBMITTER:</b>	ERIK S. ERICKSEN
<b>SIGNATURE:</b>	/ErikSEricksen/
<b>DATE SIGNED:</b>	12/01/2015
<b>Total Attachments: 6</b>	
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WHEN RECORDED RETURN TO:  
Erik S. Ericksen, M.S.  
Thorpe North & Western, LLP  
P.O. Box 1219  
Sandy, UT 84091-1219

Docket No. 00846-U5545.PCT.NP

## ASSIGNMENT

WHEREAS, we, Zhigang Z. Fang (resident of the State of Utah, whose postal mailing address is 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108), Yang Xia (resident of the State of Utah, whose postal mailing address is 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108), Pei Sun (resident of the State of Utah, whose postal mailing address is 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108), and Ying Zhang (resident of the State of Utah, whose postal mailing address is 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108), (hereinafter "Assignors") have invented a certain new and useful improvement in a **PRODUCTION OF SPHERICAL TITANIUM PARTICLES** for which an application for United States Letters Patent is being filed concurrently herewith OR which was filed on \_\_\_\_\_ as THORPE NORTH & WESTERN, LLP Docket No. 00846-U5545.PCT.NP, and given U.S. Patent Application Serial No. \_\_\_\_\_; (Thorpe North & Western, LLP is hereby authorized to insert the specified data, when known) and:

WHEREAS, University of Utah, an Institute of Higher Education, organized and existing under the laws of the State of Utah, having a business address of 201 S. Presidents Circle, Salt Lake City, Utah 84112, (hereinafter "Assignee"), is desirous of acquiring Assignor's entire right, title, and interest in the same;

NOW, THEREFORE, in consideration of one dollar (\$1.00) and other good and valuable consideration paid to us by the Assignee, the receipt and sufficiency whereof is hereby acknowledged, we the said Assignors, hereby grant and assign unto the said Assignee, our entire right, title and interest in said invention and in all patent applications based thereon, including but not limited to the above identified United States Patent Application and in all provisionals, divisions, continuations, and continuations-in-part of said application, or reissues or extensions

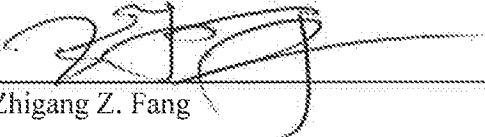
of Letters Patent or Patents granted thereon, and in all corresponding applications filed in countries foreign to the United States, and in all patents issuing thereon in the United States and foreign countries; the right, power and authority to file and prosecute U.S. and foreign patent applications on said invention, and to do so in its own name wherever such right may be legally exercised, and including the right to claim the priority and benefits of the International Convention for such applications; and the right to bring actions for infringement of any right in said invention in its own name, including past infringement, in any jurisdiction.

We hereby authorize and request the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all Letters Patent on said invention to the said Assignee as the owner of our entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

We hereby agree, without further consideration and without expense to us, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of us to make this Assignment fully effective, including, by way of example but not of limitation, the following: prompt execution of all original, divisional, substitution, reissue, and other United States and foreign patent applications on said invention, and all lawful documents as requested by the Assignee to further the prosecution of any of such patent applications; and cooperation to the best of our ability including, but not limited to, the execution of all lawful documents, the production of evidence in any actions or proceedings concerning the invention, including, but not limited to, nullification, reissue, extension, and infringement proceedings involving said invention.

This assignment and agreement shall be binding upon our heirs and legal representatives.

Executed this 17 day of November, 2015 at Salt Lake City  
Utah (place)

  
 \_\_\_\_\_  
 Zhigang Z. Fang

STATE OF Utah)  
 : ss  
 County of Salt Lake)

Before me personally appeared Zhigang Z. Fang and acknowledged the foregoing instrument to be his free act and deed this 17 day of November, 2015.



  
 \_\_\_\_\_  
 Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ at \_\_\_\_\_  
 \_\_\_\_\_ (place)

\_\_\_\_\_  
 Yang Xia

STATE OF \_\_\_\_\_)  
 : ss  
 County of \_\_\_\_\_)

Before me personally appeared Yang Xia and acknowledged the foregoing instrument to be his free act and deed this \_\_\_ day of \_\_\_\_\_, 2015,

\_\_\_\_\_  
 Notary Public

This assignment and agreement shall be binding upon our heirs and legal representatives.

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ at \_\_\_\_\_  
(place)

Zhigang Z. Fang

STATE OF \_\_\_\_\_ )

County of \_\_\_\_\_ )

Before me personally appeared Zhigang Z. Fang and acknowledged the foregoing instrument to be his free act and deed this \_\_\_\_ day of \_\_\_\_\_, 2015.

Notary Public

Executed this 27 day of 10, 2015 at University of Utah  
Salt Lake city (place)

Yang Xia

STATE OF Utah )

County of Salt Lake )

Before me personally appeared Yang Xia and acknowledged the foregoing instrument to be his free act and deed this 27 day of October, 2015.

Notary Public



Executed this 27 day of 10, 2015 at University of UT.  
Salt Lake City (place)

*[Signature]*

Pei Sun

STATE OF Utah )  
County of Salt Lake ) : SS

Before me personally appeared Pei Sun and acknowledged the foregoing instrument to be his free act and deed this 27 day of October, 2015.



*[Signature: Kelly South]*  
Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ at \_\_\_\_\_  
(place)

Ying Zhang

STATE OF \_\_\_\_\_ )  
County of \_\_\_\_\_ ) : SS

Before me personally appeared Ying Zhang and acknowledged the foregoing instrument to be his free act and deed this \_\_\_\_\_ day of \_\_\_\_\_, 2015.

Notary Public

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ at \_\_\_\_\_  
\_\_\_\_\_(place)

\_\_\_\_\_  
Pei Sun

STATE OF \_\_\_\_\_ )  
; ss  
County of \_\_\_\_\_ )

Before me personally appeared Pei Sun and acknowledged the foregoing instrument to be his free act and deed this \_\_\_\_\_ day of \_\_\_\_\_, 2015.

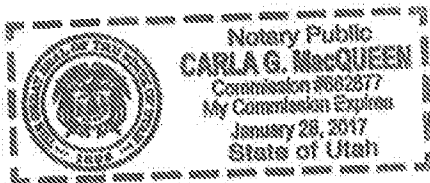
\_\_\_\_\_  
Notary Public

Executed this 17<sup>th</sup> day of November, 2015 at Salt Lake City, Utah  
\_\_\_\_\_(place)

Ying Zhang  
\_\_\_\_\_  
Ying Zhang

STATE OF Utah )  
; ss  
County of Salt Lake )

Before me personally appeared Ying Zhang and acknowledged the foregoing instrument to be his free act and deed this 17 day of November, 2015.



Carla G. MacQueen  
\_\_\_\_\_  
Notary Public