

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT3862935

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ZHIGANG Z. FANG	02/23/2016
PENG FAN	02/24/2016
SCOTT MIDDLEMAS	03/08/2016
JUN GUO	03/07/2016
YING ZHANG	02/23/2016
MICHAEL FREE	02/26/2016
AMARCHAND SATHYAPALAN	03/09/2016
YANG XIA	03/14/2016
RECEIVING PARTY DATA	
Name:	UNIVERSITY OF UTAH
Street Address:	201 S. PRESIDENTS CIRCLE
City:	SALT LAKE CITY
State/Country:	UTAH
Postal Code:	84112
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14912846
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	801-566-6633
Email:	rich@tnw.com, cause@tnw.com
Correspondent Name:	THORPE NORTH & WESTERN, LLP.
Address Line 1:	P.O. BOX 1219
Address Line 4:	SANDY, UTAH 84091-1219
ATTORNEY DOCKET NUMBER:	00846-U5356.PCT.US
NAME OF SUBMITTER:	ERIK S. ERICKSEN
SIGNATURE:	/ErikSEricksen/

DATE SIGNED:	05/06/2016
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Total Attachments: 10

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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-U5356.PCT.US

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), Peng Fan (resident of the State of Utah, whose postal mailing address is 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108), Scott Middlemas (resident of the State of Utah, whose postal mailing address is 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108), Jun Guo (resident of the State of Utah, whose postal mailing address is 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108), Ying Zhang (resident of the State of Utah, whose postal mailing address is 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108), Micheal Free (resident of the State of Utah, whose postal mailing address is 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108), Amarchand Sathyapalan (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), (hereinafter "Assignors") have invented a certain new and useful improvement in a **PRODUCING A TITANIUM PRODUCT** for which an application for United States Letters Patent is being filed concurrently herewith OR which was filed on February 18, 2016 as THORPE NORTH & WESTERN, LLP Docket No. 00846-U5356.PCT.US, and given U.S. Patent Application Serial No. 14/912,846; 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.

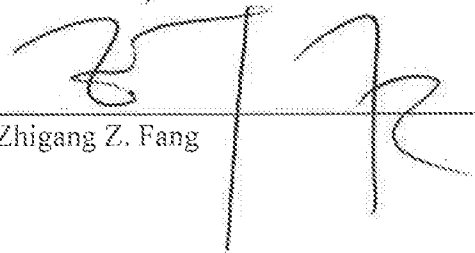
We hereby authorize and request the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all Letters Patent on said invention to the said Assignee as the owner of our 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.

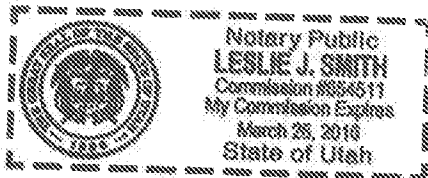
Executed this 23 day of February, 2016 at Salt Lake City
Utah (City, State).



Zhigang Z. Fang

STATE OF Utah)
County of Salt Lake) : ss

Before me personally appeared Zhigang Z. Fang and acknowledged the foregoing instrument to be his free act and deed this 23rd day of February, 2016.





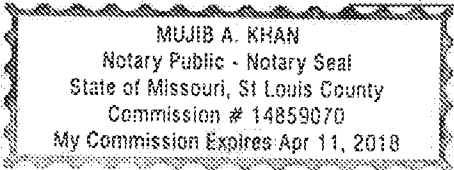
Notary Public

Executed this 24 day of Feb, 2016 at St Louis^{LOUIS}
MO 63141 (City, State).

Peng Fan
Peng Fan

STATE OF MISSOURI)
County of SAINT LOUIS) : ss

Before me personally appeared Peng Fan and acknowledged the foregoing instrument to be his free act and deed this 24 day of FEBRUARY, 2016.



Mujib A. Khan
Notary Public

Executed this _____ day of _____, 20____ at _____
(City, State).

Scott Middlemas

STATE OF _____)
County of _____) : ss

Before me personally appeared Scott Middlemas and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____, 20____.

Notary Public

Executed this _____ day of _____, 20____ at _____

(City, State).

Peng Fan

STATE OF _____)
: ss
County of _____)

Before me personally appeared Peng Fan and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____, 20____.

Notary Public

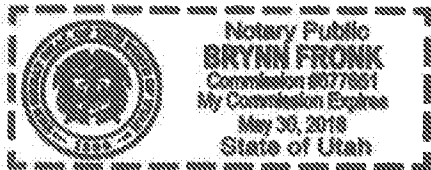
Executed this 9th day of MARCH, 2016 at _____
SALT LAKE CITY, UTAH (City, State).

Scott Middlemas

Scott Middlemas

STATE OF Utah)
: ss
County of SALT LAKE)

Before me personally appeared Scott Middlemas and acknowledged the foregoing instrument to be his free act and deed this 9th day of MARCH, 2016.



Brynn Frank

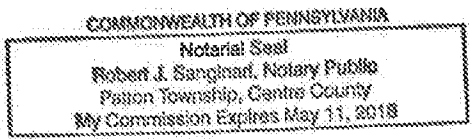
Notary Public

Executed this 7th day of March, 2016 at State college,
PA (City, State).

[Signature]
Jun Guo

STATE OF Pennsylvania)
County of Centre) : ss

Before me personally appeared Jun Guo and acknowledged the foregoing instrument to be his free act and deed this 7th day of March, 2016.



[Signature]
Notary Public

Executed this _____ day of _____, 20____ at _____
(City, State).

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 _____, 20_____.

Notary Public

Executed this _____ day of _____, 20__ at _____

(City, State).

Jun Guo

STATE OF _____)
: ss
County of _____)

Before me personally appeared Jun Guo and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____, 20__.

Notary Public

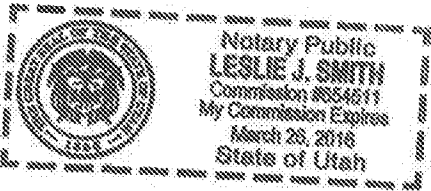
Executed this 23rd day of Feb., 2016 at Salt Lake
City, Utah (City, State).

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 23rd day of February, 2016.



Leslie J. Smith

Notary Public

Executed this 26th day of February, 2016 at Salt Lake
City, Utah (City, State).

Michael Free
Michael Free
~~Michael~~

STATE OF Utah)
: ss
County of Salt Lake)

Before me personally appeared Micheal Free and acknowledged the foregoing instrument to be his free act and deed this 26th day of February, 2016.



Joann Leary
Notary Public

Executed this _____ day of _____, 20____ at _____
_____(City, State).

Amarchand Sathyapalan

STATE OF _____)
: ss
County of _____)

Before me personally appeared Amarchand Sathyapalan and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____, 20____.

Notary Public

Executed this _____ day of _____, 20____ at _____

(City, State).

Micheal Free

STATE OF _____)
: ss
County of _____)

Before me personally appeared Micheal Free and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____, 20____.

Notary Public

Executed this 9th day of March, 2016 at Salt Lake City
UT
(City, State).

Amarchand S.

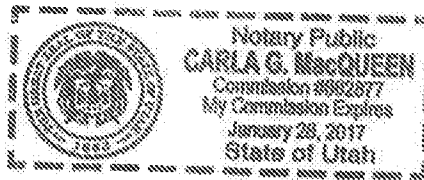
Amarchand Sathyapalan

STATE OF Utah)
: ss
County of Salt Lake)

Before me personally appeared Amarchand Sathyapalan and acknowledged the foregoing instrument to be his free act and deed this 9 day of March, 2016.

Carla G. MacQueen

Notary Public



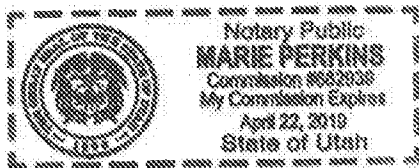
Yang Xia

Executed this 14th day of March, 2016 at Salt Lake City
Utah (City, State).

[Signature]
Yang Xia

STATE OF Utah)
County of Salt Lake) ss

Before me personally appeared Yang Xia and acknowledged the foregoing instrument to be his free act and deed this 14th day of March, 2016



[Signature]
Notary Public