

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Zhigang Z. Fang</td> <td>08/17/2012</td> </tr> <tr> <td>Peng Fan</td> <td>05/11/2012</td> </tr> <tr> <td>Jun Guo</td> <td>06/28/2012</td> </tr> </tbody> </table>		Name	Execution Date	Zhigang Z. Fang	08/17/2012	Peng Fan	05/11/2012	Jun Guo	06/28/2012
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Zhigang Z. Fang	08/17/2012								
Peng Fan	05/11/2012								
Jun Guo	06/28/2012								
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									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13449062</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13449062				
Property Type	Number								
Application Number:	13449062								
CORRESPONDENCE DATA									
Fax Number:	8015660750								
Phone:	801-566-6633								
Email:	andrea.phillips@tnw.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
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Address Line 1:	8180 S. 700 E., Suite 350								
Address Line 4:	Sandy, UTAH 84070								
ATTORNEY DOCKET NUMBER:	00846-U4725.CIP								
NAME OF SUBMITTER:	Erik S. Ericksen								
Total Attachments: 4 source=Assignment1#page1.tif source=Assignment1#page2.tif source=Assignment1#page3.tif source=Assignment1#page4.tif									

OP \$40.00 13449062

WHEN RECORDED RETURN TO:

US PATENT APPLICATION No.13/449,062
ATTORNEY DOCKET NO. 00846-U4725.CIP

Erik S. Ericksen, M.S.
THORPE NORTH & WESTERN, LLP
P.O. BOX 1219
SANDY, UTAH 84091-1219

ASSIGNMENT

WHEREAS, We,

Residence: Zhigang Z. Fang
Salt Lake City, UT
Post Office Address: 6718 S. Aqua Vista Cove
Salt Lake City, UT 84121

Residence: Peng Fan
Salt Lake City, UT
Post Office Address: ~~130 So. 1300 East #205~~ 4615 Stockbridge Ln
~~Salt Lake City, UT 84102~~ Salt Lake City, UT 84117

Residence: Jun Guo
Salt Lake City, UT
Post Office Address: 818 ~~122~~ University Village
Salt Lake City, UT 84108

(hereinafter "Assignors") have invented a certain new and useful improvement in a FUNCTIONALLY GRADED CEMENTED TUNGSTEN CARBIDE WITH ENGINEERED HARD SURFACE AND THE METHOD FOR MAKING THE SAME for which a non-provisional application for United States Letters Patent was filed on April 17, 2012 as THORPE NORTH & WESTERN, LLP Docket No. 00846-U4725.CIP, and given U.S. Patent Application Serial No. 13/449,062; and

WHEREAS, University of Utah, an institution of higher education and a nonprofit organization organized and existing under the laws of the State of Utah, located at 201 South Presidents Circle, Salt Lake City, UT 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 nonprovisionals, 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, nonprovisional, 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; 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, reissuing, extension, and infringement proceedings involving said invention.

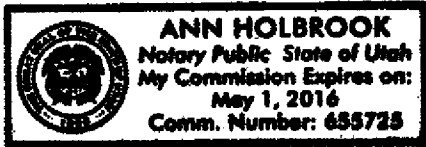
This assignment and agreement shall be binding upon our heirs and legal representatives.

Signed at Salt Lake City, Utah, this 17 day of August, 2012.
city, state, country (if not USA) day month year

Signed: Zhigang Z. Fang
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/her free act and deed this 17 day of August, 2012



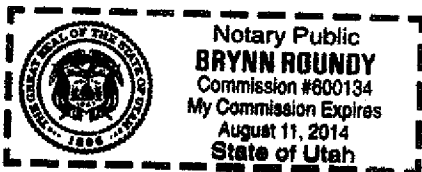
Ann Holbrook
Notary Public

Signed at Salt Lake City, Utah, this 11th day of May, 2012.
city, state, country (if not USA) day month year

Signed: Peng Fan
Peng Fan

STATE OF Utah)
County of Salt Lake) :SS

Before me personally appeared Peng Fan and acknowledged the foregoing instrument to be his/her free act and deed this 11th day of May, 2012



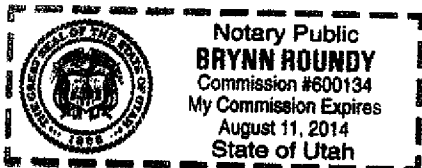
Brynn Roundy
Notary Public

Signed at Salt Lake City, Utah, this 28th day of June, 2012.
city, state, country (if not USA) day month year

Signed: Jun Guo
Jun Guo

STATE OF Utah)
County of Salt Lake :SS)

Before me personally appeared Jun Guo and acknowledged the foregoing instrument to be his/her free act and deed this 29th day of June, 2012



Brynn Roundy
Notary Public
