#### 502876476 07/02/2014

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 **EPAS ID: PAT2923073** 

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
THOMAS M. CRAWFORD	06/30/2014
LONGFEI YE	06/24/2014
JASON RYAN HENDERSON	06/19/2014

#### **RECEIVING PARTY DATA**

Name:	UNIVERSITY OF SOUTH CAROLINA	
Street Address:	OSBORNE ADMINISTRATION BUILDING	
City:	COLUMBIA	
State/Country:	SOUTH CAROLINA	
Postal Code:	29208	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14251889

#### CORRESPONDENCE DATA

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**Correspondent Name:** DORITY & MANNING, P.A. Address Line 1: POST OFFICE BOX 1449

Address Line 4: GREENVILLE, SOUTH CAROLINA 29602-1449

ATTORNEY DOCKET NUMBER:	USC-358 (1035/1036)	
NAME OF SUBMITTER:	ALAN R. MARSHALL REG. NO. 56405	
SIGNATURE:	/Alan R. Marshall Reg. No. 56405/	
DATE SIGNED:	07/02/2014	

### **Total Attachments: 4**

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> **PATENT** REEL: 033229 FRAME: 0307 502876476

Attorney Docket Number: USC-358 (1035/1036)

# ASSIGNMENT OF WORLDWIDE RIGHTS

WHEREAS, we, Thomas M. Crawford, a citizen of the United States, residing in Irmo, SC and having a mailing address of University of South Carolina, Osborne Administration Building, Columbia, SC 29208, Longfei Ye, a citizen of China, residing in Columbia, SC and having a mailing address of University of South Carolina, Osborne Administration Building, Columbia, SC 29208 and Jason Ryan Henderson, a citizen of the United States, residing in Columbia, SC and having a mailing address of University of South Carolina, Osborne Administration Building, Columbia, SC 29208, as assignors, have made an invention entitled

"ALL-Nanoparticle Concave Diffraction Grating Fabricated by Self-Assembly Onto Magnetically-Recorded Templates" as described in a patent application for U.S. Letters Patent bearing U.S. Serial No. 14/251,889 which was filed in the U.S. Patent and Trademark Office on April 14, 2014; and

WHEREAS, University of South Carolina, Osborne Administration Building, Suite 109, Columbia, South Carolina, 29208, as assignee, is desirous of securing the entire right, title and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW, THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof, and we hereby authorize and request the Commissioner for Patents of the United States and any official of any foreign country whose duty it is to issue patents on applications as

PATENT REEL: 033229 FRAME: 0308

Attorney Docket Number: <u>USC-358 (1035/1036)</u>

described above, to issue all Letters Patent for this Invention to assignee, its successors and assigns, in accordance with the terms of this Agreement.

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed, and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title of this invention in said assignee, its auccessors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN WITNESS WHEREOF, Assignors have executed this document on the date

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W-94 P 14_1	6/36/19
Thomas M. Crawford	Date
Large	6/24/1 <u>K</u>
Longie: 1e	Date
Jason Rvan Henderson	Date

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NOW, THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all extensions, renewals, and reissues thereof, and we hereby authorize and request the Commissioner for Patents of the United States and any official of any foreign country whose duty it is to issue patents on applications as

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**IN WITNESS WHEREOF**, Assignors have executed this document on the date indicated below.

Thomas M. Crawford	Date	
Longfei Ye	Date	
Jason Ryan Henderson	2014) was 19 Date	