

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FILBERT JOSEPH BARTOLI	04/09/2013
BEIBEI ZENG	04/09/2013
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14781778
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	LEH-1001-US
<b>NAME OF SUBMITTER:</b>	MICHELE GREENBERG
<b>SIGNATURE:</b>	/mg/
<b>DATE SIGNED:</b>	10/01/2015
<b>Total Attachments: 2</b>	
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**ASSIGNMENT & DECLARATION**

WHEREAS, We, Filbert Joseph BARTOLI and Beibei ZENG (hereinafter the "Assignors"), residing at 4030 Clubhouse Court, Center Valley, PA 18034 and 8 Duh Drive, Apt. 322, Bethlehem, PA 18015 (respectively), believe we are the original joint inventors of certain inventions or improvements claimed in an application(s) for Letters Patent which we have made, entitled TRANSPARENT PLASMONIC NANOGRIID, filed as U.S. Provisional Patent Application Serial No. 61/808,407 on April 4, 2013; and

WHEREAS, the above-identified application was made or authorized to be made by us.

WHEREAS, we hereby acknowledge that any willful false statement made in this Assignment & Declaration is punishable under 18 U.S.C 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, Lehigh University (hereinafter the "Assignee"), of Office of Technology Transfer, 354 Whitaker Laboratory, 5 East Packer Avenue, Bethlehem, PA 18015, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by said Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, We, said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said Assignee, the entire right, title and interest in and to said invention or improvement and said application and any and all continuations, divisionals, non-provisionals, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said Assignee, to file in the name of Assignee applications for Letters Patent in all countries, the same to be held and enjoyed by said Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent, respectively, may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND We hereby covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said Assignee, its successors, assigns, nominees, or legal representatives, and we agree to communicate to said Assignee or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit

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proper patent protection for said inventions or improvements in any and all countries, all such actions to be at the sole expense of Assignee.

AND, We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of the assignment.

IN WITNESS WHEREOF, We have hereunto set our hand and seal.

4/9/2013  
Date

Filbert Joseph BARTOLI  
Inventor

4/9/2013  
Date

Beibei ZENG  
Inventor