

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5408525

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIANPING ZHANG	02/27/2019
YING GAO	02/27/2019
LING ZHOU	02/27/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BOLB INC.
<b>Street Address:</b>	1172 MURPHY AVE., SUITE 237
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95131
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16294816
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)660-0809
<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>	949-660-0761
<b>Email:</b>	jcpatents@gmail.com
<b>Correspondent Name:</b>	J C PATENTS
<b>Address Line 1:</b>	4 VENTURE, SUITE 250
<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92618
<b>ATTORNEY DOCKET NUMBER:</b>	BOLB-012A
<b>NAME OF SUBMITTER:</b>	JIawei HUANG
<b>SIGNATURE:</b>	/JIawei HUANG/
<b>DATE SIGNED:</b>	03/06/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 3</b>	
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**COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT  
FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION  
DATA SHEET (37 CFR 1.76)**

WHEREAS, the undersigned has invented certain new and useful improvements as described and set forth in the below identified application for United States Patent:

Title of the Invention : **Heterostructure and Light-Emitting Device  
Employing the Same**

The attached application, or  
 United States application or PCT application number \_\_\_\_\_ filed on  
\_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_ (if applicable).

The above-identified application was made or authorized to be made by me.  
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

WHEREAS, **BOLB INC.** (hereinafter termed "Assignee"), a US corporation

residing at **1172 MURPHY AVE., SUITE 237  
SAN JOSE, CALIFORNIA 95131**

is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or disclosed jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey to said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any or all countries of the world for patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

**COMBINED DECLARATION AND ASSIGNMENT  
FOR UTILITY OR DESIGN PATENT APPLICATION  
CONTINUED**

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted

thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

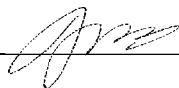
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

**The above-identified application was made or authorized to be made by me.  
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.**

**LEGAL NAME OF INVENTOR:**

Full name of the sole or first inventor: **JIANPING ZHANG**

Inventor's signature: \_\_\_\_\_



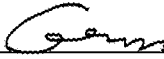
Date: 02/27/2019

Additional inventors or a legal representative are being named on the 1 supplemental sheet(s) attached hereto

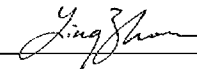
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**COMBINED DECLARATION AND ASSIGNMENT  
FOR UTILITY OR DESIGN PATENT APPLICATION  
ADDITIONAL INVENTOR(S)  
Supplemental Sheet**

Name of Additional Joint Inventor: **YING GAO**

Inventor's signature  Date 2/27/2019

Name of Additional Joint Inventor: **LING ZHOU**

Inventor's signature  Date 2/27/2019