#### 504663227 11/29/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4709949

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHENGWEI LIU	11/07/2017
XINJIE ZHANG	11/07/2017

### **RECEIVING PARTY DATA**

Name:	BOE TECHNOLOGY GROUP CO., LTD.
Street Address:	NO. 10 JIUXIANQIAO RD.
Internal Address:	CHAOYANG DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100015
Name:	HEFEI XINSHENG OPTOELECTRONICS TECHNOLOGY CO., LTD.
Street Address:	XINZHAN INDUSTRIAL PARK
City:	HEFEI, ANHUI
State/Country:	CHINA
Postal Code:	230012

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

Property Type	Number
Application Number:	15578207

#### CORRESPONDENCE DATA

Fax Number: (612)339-6580

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.

6123391863 Phone:

bgould@kinney.com Email: **GRANT M. MCNEILLY Correspondent Name:** 

Address Line 1: 312 SOUTH THIRD STREET Address Line 2: KINNEY & LANGE, P.A.

Address Line 4: MINNEAPOLIS, MINNESOTA 55415

**ATTORNEY DOCKET NUMBER:** B862.312-484

**NAME OF SUBMITTER: GRANT M. MCNEILLY** 

> **PATENT** REEL: 044254 FRAME: 0406

SIGNATURE:	/Grant M. McNeilly/
DATE SIGNED:	11/29/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 4	
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PATENT REEL: 044254 FRAME: 0407

# COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention	ARRAY SUBSTRATE ASSEMBLY, METHOD OF MANUFACTURING ARRAY SUBSTRATE ASSEMBLY, DISPLAY PANEL AND DISPLAY APPARATUS
As a below n	amed inventor, I hereby declare that:
This declarat	XIThe attached application or
	filed on
The above-id	lentified application was made or authorized to be made by me.
I believe that application.	I am the original inventor or an original joint inventor of a claimed invention in the
	nowledge that any willful false statement made in this declaration is punishable i.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR"), do hereby:

SELL, ASSIGN AND TRANSFER to BOE TECHNOLOGY GROUP CO., LTD., having a place of business at No.10 Jiuxianqiao Rd., Chaoyang District, Beijing 100015, China; and HEFEI XINSHENG OPTOELECTRONICS TECHNOLOGY CO., LTD having a place of business at Xinzhan Industrial Park, Hefei, Anhui, 230012, P.R.China (each hereafter referred to as "ASSIGNEEs") the entire right, title and interest for the United States and all foreign countries in and to any and all inventions which are disclosed in the above-identified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to PCT/CN2017/093690 filed on July 20, 2017; which in turn claims priority to 201610876795.1 filed on September 30, 2016; such applications and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such inventions; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such inventions to the Assignee;

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WARRANT AND COVENANT that no assignment, genus mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned.

COVENANT, when requested and at the expense of the Assignment to carry out in good faith the intent and purpose of this sesignment the undersigned will execute all divisions, continuing substitute receival, ressue, and all other priorit applications or may and all such inventions, execute all rightful onthe, declarations, assignments, powers of all moves and other papers, communicate to the Assignee all facts known to the undersigned relating to such inventions and the history thereof and generally do everything possible which the Assignee shall consider describe for vesting title to such inventions in the Assignee shall consider describe for vesting proper patent projection for Such inventions.

TO BE SINDING on the being discuss, representatives and accessors of the understand and extend to the accessors assigns and nonlineer of the Assignee

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencombered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument to conflict herewith.

ASSIGNOR FIFREBY GRANTS to the agents and attorneys of <u>KINNEY &</u>
<u>LANCE</u> the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Indemark Office for recordation of this Assignment

The avergoment of said invention is effective as of the earlier of (1) the date of execution shown below or (2) the filting date of the first filted of said patent applications.

### STATEMENTS

I have reviewed and understand the contents of the above-elemented application, including the claims, as amended by any amendment referred to arrive

Lacknowledge the duty to disclose to the United States Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part

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This declarat	XIThe attached application or
	filed on
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SELL, ASSIGN AND TRANSFER to BOE TECHNOLOGY GROUP CO., LTD., having a place of business at No.10 Jiuxianqiao Rd., Chaoyang District, Beijing 100015, China; and HEFEI XINSHENG OPTOELECTRONICS TECHNOLOGY CO., LTD having a place of business at Xinzhan Industrial Park, Hefei, Anhui, 230012, P.R.China (each hereafter referred to as "ASSIGNEEs") the entire right, title and interest for the United States and all foreign countries in and to any and all inventions which are disclosed in the above-identified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to PCT/CN2017/093690 filed on July 20, 2017; which in turn claims priority to 201610876795.1 filed on September 30, 2016; such applications and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such inventions; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such inventions to the Assignee;

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WARRANT AND COVENANT that to assignment, grant, mortgage, license of other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as beginn expressed is possessed by the undersigned.

COVENANT, when requested and at the expense of the Assignee, to carry our is good fails the intent and purpose of this assignment, the underspied will execute all divisional, continuing, substitute, removal, resoure, and all other patent applications on they and all trach inventions, execute all rightful catho, declarations, assignments, powers of allowary and other papers constrained to be Assigned all facts known to the understand relating to such inventions and the history thereof and generally do everything possible which the Assigned shall consider desirable for vesting tric to such inventions in the Assigned shall consider desirable for vesting tric to such inventions in the Assigned and for security maintaining and enforcing proper patent protection for each inventions.

 (i) (ii) BDMDDM on the basis assigns representative and accessors of the understance and extend to the successors assigns and manages of the Assigne.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencombered right to sell, assign, and transfer the interests sold, assigned and transferred berein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

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<u>LANGE</u> the prover and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordance of this Assignment.

The assignment of said invention is effective as of the earlier of (1) the date of execution shown below or (2) the filting date of the first filed of said patent applications.

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