PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5765902

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XUEBO LIANG	09/11/2019
XIUZHU TANG	09/11/2019
SHUAI CHEN	09/11/2019
SHUANG HU	09/11/2019
XING DONG	09/11/2019
LIJUN XIONG	09/11/2019
ZHENGUO TIAN	09/11/2019
TAOLIANG TANG	09/11/2019
ZHI WANG	09/11/2019

RECEIVING PARTY DATA

Name:	CHONGQING BOE OPTOELECTRONICS TECHNOLOGY CO., LTD.
Street Address:	NO. 7 YUNHAN RD., SHUITU HI-TECH INDUSTRIAL ZONE, BEIBEI DISTRICT
City:	CHONGQING
State/Country:	CHINA
Postal Code:	400714
Name:	BOE TECHNOLOGY GROUP CO., LTD.
Street Address:	NO. 10 JIUXIANQIAO RD., CHAOYANG DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100015

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16604672

CORRESPONDENCE DATA

Fax Number: (612)334-3312

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.

eguetzko@wck.com Email: **Correspondent Name:** JUDSON K. CHAMPLIN

REEL: 050688 FRAME: 0064

PATENT

Address Line 1: 900 2ND AVENUE SOUTH

Address Line 2: SUITE 1400

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	B200.0845US1
NAME OF SUBMITTER:	EMILY ASHLIN
SIGNATURE:	/Emily Ashlin/
DATE SIGNED:	10/11/2019

Total Attachments: 18

source=Assignment 2019-10-11#page1.tif source=Assignment 2019-10-11#page2.tif source=Assignment_2019-10-11#page3.tif source=Assignment_2019-10-11#page4.tif source=Assignment_2019-10-11#page5.tif source=Assignment_2019-10-11#page6.tif source=Assignment_2019-10-11#page7.tif source=Assignment 2019-10-11#page8.tif source=Assignment 2019-10-11#page9.tif source=Assignment_2019-10-11#page10.tif source=Assignment_2019-10-11#page11.tif source=Assignment 2019-10-11#page12.tif source=Assignment 2019-10-11#page13.tif source=Assignment_2019-10-11#page14.tif source=Assignment_2019-10-11#page15.tif source=Assignment_2019-10-11#page16.tif source=Assignment_2019-10-11#page17.tif source=Assignment_2019-10-11#page18.tif

> PATENT REEL: 050688 FRAME: 0065

Title of Invention	TOUCH DISPLAY MODULE, CONTROLLING METHOD, PANEL AND DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
This decla	ration
is directed	to:
The above-	United States application or PCT international application number 16/604,672 filed on 2019-10-11 dentified application was made or authorized to be made by me.
I believe thain the applic	at I am the original inventor or an original joint inventor of a claimed invention eation.
	knowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) th.

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 Chongqing BOE Optoelectronics Technology Co., Ltd. , having a place of business at No.7 Yunhan Rd., Shuitu Hi-tech Industrial Zone, Beibei District, Chongging, 400714, P.R. China, and BOE TECHNOLOGY GROUP CO., LTD. , having a place of business at No.10 Jiuxiangiao Rd., Chaoyang District, Beijing ,100015, P.R. China (each hereinafter referred to as "ASSIGNEE"), 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/CN2019/088016 filed on May.22,2019; which in turn claims priority to CN201810560712.7 filed on May.25,2018; 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;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement arteeting 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 Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such inventions: execute all rightful oaths, declarations, assignments, powers of attorney 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 desirable for vesting title to such inventions in the Assignee, and for securing, maintaining and enforcing proper patent protection for such inventions;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

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

ASSIGNOR HEREBY GRANTS to the agents and attorneys of _____ 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 Trademark Office for recordation of this Assignment.

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STATEMENTS

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

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.

LEGAL NA	ME OF INVENTOR		
Inventor:	× Jepo LIANG	Date: Sep. 11. 2019	
Signature:	Xueho LIANG	ľ r	

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on

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LEGAL NAME OF INVENTOR	
Inventor <u>Kruztar LANC</u>	Date Sep. 11, 2019
Signature Xinchu TANG	

-

Title of Invention	TOUCH DISPLAY MODULE, CONTROLLING METHOD, PANEL AND DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
This decla	ration
is directed	to:
The above-	United States application or PCT international application numberfiled on identified application was made or authorized to be made by me.
believe than	at I am the original inventor or an original joint inventor of a claimed invention cation.
	knowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) th.

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

Docket No. X1702063B8-FP190401US

WARRANT AND CONTNANT that are assignment, grant, 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 Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such inventions; execute all rightful oaths, declarations, assignments, powers of attorney 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 desirable for vesting title to such inventions in the Assignee, and for securing, maintaining and enforcing proper patent protection for such inventions:

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LEGAL NAME OF INVENTOR	
Inventor: Shuai CHEN	Date 56p. 11. 20/9
Signature: 3 Mai CHEN	

PATENT REEL: 050688 FRAME: 0071

Title of Invention	TOUCH DISPLAY MODULE, CONTROLLING METHOD, PANEL AND DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
This decla	ration
is directed	to:
The above-	United States application or PCT international application numberfiled on Identified application was made or authorized to be made by me.
I believe that in the applic	at I am the original inventor or an original joint inventor of a claimed invention cation.
	knowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) th.

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	LEGAL NAME OF INVENTOR	
	Inventor Shuana HU	Date: Sep. 11. 2019
	Signature: Shuang HU	,
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Title of Invention	TOUCH DISPLAY MODULE, CONTROLLING METHOD, PANEL AND DISPLAY DEVICE				
As a below	As a below named inventor, I hereby declare that:				
This declar	ration				
is directed	to:				
United States application or PCT international application numberfiled on 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.					
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LEGAL NAME OF INVENTOR	
Inventor. Xing DONG	Clare: SQ 11 7-2 8
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Sionature: Xing DeNG	general and advanced the state of the state

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Title of Invention	TOUCH DISPLAY MODULE, CONTROLLING METHOD, PANEL AND DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
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LEGAL NAME OF INVENTOR	
Inventor <u>Lyan KIONG</u>	Dato Sep. 11. 2019
Signature: Lital XIDNG	1

Title of Invention	TOUCH DISPLAY MODULE, CONTROLLING METHOD, PANEL AND DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
This decla	ration
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COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such inventions: execute all rightful oaths, declarations, assignments, powers of attorney 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 desirable for vesting title to such inventions in the Assignee, and for securing, maintaining and enforcing proper patent protection for such inventions:

TO BE BINDING on the heirs; assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

ASSIGNOR HERCES' REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to seil, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the agents and attorneys of _____ 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 Trademark Office for recordation 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 filing date of the first filed of said patent applications.

STATEMENTS

I have reviewed and understand the contents of the above-identified application, including the claims, as amonded by any tanentment referred to above.

I acknowledge 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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LEGAL NAME OF INVENTOR		
Inventor. Zhenguo TIAN	Date: Sep. 11. 2019	
Signature Zhenguo TZAN		
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United States application or PCT international application numberfiled on The above-identified application was made or authorized to be made by me.			
on			
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.			

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 Chongqing BOE Optoelectronics Technology Co., Ltd. , having a place of business at No.7 Yunhan Rd., Shuitu Hi-tech Industrial Zone, Beibei District, Chongging, 400714, P.R. China, and BOE TECHNOLOGY GROUP CO., LTD. , having a place of business at No.10 Jiuxiangiao Rd., Chaoyang District, Beijing ,100015, P.R. China (each hereinafter referred to as "ASSIGNEE") , 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/CN2019/088016 filed on May.22,2019; which in turn claims priority to CN201810560712.7 filed on May.25,2018; 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;

WARRANT AND COVENANT that no assignment, grant, 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 by the undersigned:

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such inventions; execute all rightful oaths, declarations, assignments, powers of attorney 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 desirable for vesting title to such inventions in the Assignee, and for soluting, maintaining and enforcing proper patent protection for such inventions;

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Title of Invention	TOUCH DISPLAY MODULE, CONTROLLING METHOD, PANEL AND DISPLAY DEVICE				
As a below	As a below named inventor, I hereby declare that:				
This declar	ration				
is directed	to:				
United States application or PCT international application numberfiled on 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.					
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.					

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LEGAL NAME OF RIVENTOR		
Inventor: Zigling-rida	Date: 4cp-11. 2019	
Signature Zhi WANG	, ,	į

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