505353037 03/01/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5399822

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BING XU	02/13/2019
TAO HOU	02/13/2019
JUNPING BAO	02/13/2019
XINGHUA LI	02/13/2019

RECEIVING PARTY DATA

Name:	CHENGDU BOE OPTOELECTRONICS TECHNOLOGY CO., LTD.
Street Address:	NO.1188 HEZUO RD., (WEST ZONE)
Internal Address:	HI-TECH DEVELOPMENT ZONE
City:	CHENGDU, SICHUAN
State/Country:	CHINA
Postal Code:	611731
Name:	BOE TECHNOLOGY GROUP CO., LTD.
Street Address:	NO.10 JIUXIANQIAO RD.
Internal Address:	CHAOYANG DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100015

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16329780

CORRESPONDENCE DATA

Fax Number: (212)484-3990

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.

Phone: 212-484-3900

Email: patentdocket@arentfox.com

Correspondent Name: ARENT FOX LLP

Address Line 1: 1301 AVENUE OF THE AMERICAS

Address Line 2: FLOOR 42

Address Line 4: NEW YORK, NEW YORK 10019

505353037 REEL: 048474 FRAME: 0552

PATENT

ATTORNEY DOCKET NUMBER:	038835.00141
NAME OF SUBMITTER:	MICHAEL FAINBERG
SIGNATURE:	/Michael Fainberg/
DATE SIGNED:	03/01/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 8	
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source=DEC#page8.tif	

Docket No	
X170100	3B2/TD190100516US3

Title of Invention	PRINTED CIRCUIT BOARD, METHOD FOR DETERMINING ENGAGEMENT STATE BETWEEN PRINTED CIRCUIT BOARD AND FLEXIBLE PRINTED CIRCUIT AND DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
This decla	ration
is directed	to: F The attached application, or
	United States application or PCT international application number
The above-	identified application was made or authorized to be made by me.
l believe tha	at I am the original inventor or an original joint inventor of a claimed invention action.
	cknowledge 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.
adequacy o	OOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and f which are hereby acknowledged, each undersigned inventor (hereinafter is "ASSIGNOR"), do hereby:
SELL, ASS	IGN AND TRANSFER to _ Chengdu BOE Optoelectronics Technology Co.,

Ltd. , having a place of business at No.1188 Hezuo Rd., (West Zone), Hi-tech Development Zone, Chengdu, Sichuan 611731, P.R.China , and BOE TECHNOLOGY GROUP CO., LTD. , having a place of business at No.10 Jiuxianqiao 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/CN2018/098167 filed on AUGUST 1, 2018 ; which in turn claims priority to CN201710860487.4 filed on SEPTEMBER 21, 2017 ; 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;

1

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 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 unencumbered 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 in conflict herewith.

ASSIGNOR HEREBY GRANTS to the agents and attorneys of Arent Fox LLP | Attorneys at Law 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 amended by any amendment 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.

	,
LEGAL NAME OF INVENTOR	
Inventor; Bing XU	Date: Feb. 13, 2019
Signature: Bing Xu	

Docket No		
X1701003	B2/TD1901	00516US3

Title of Invention	PRINTED CIRCUIT BOARD, METHOD FOR DETERMINING ENGAGEMENT STATE BETWEEN PRINTED CIRCUIT BOARD AND FLEXIBLE PRINTED CIRCUIT 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.
l believe tha in the applic	at ${\bf I}$ am the original inventor or an original joint inventor of a claimed invention action.
l hereby a punishable years, or bo	cknowledge 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.
adequacy o	OOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and f which are hereby acknowledged, each undersigned inventor (hereinafter is "ASSIGNOR"), do hereby:

SELL, ASSIGN AND TRANSFER to _ Chengdu BOE Optoelectronics Technology Co., having a place of business at No.1188 Hezuo Rd., (West Zone), Hi-tech Development Zone, Chengdu, Sichuan 611731, P.R.China TECHNOLOGY GROUP CO., LTD. , having a place of business at ___ 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 aboveidentified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to PCT/CN2018/098167 filed AUGUST 1, 2018; which in turn claims priority to CN201710860487.4 filed on <u>SEPTEMBER 21, 2017</u>; 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;

1

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 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 unencumbered 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 in conflict herewith.

ASSIGNOR HEREBY GRANTS to the agents and attorneys of Arent Fox LLP | Attorneys at Law 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 amended by any amendment 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.

LEGAL NAME OF INVENTOR		
	·	<i>a</i> .
Inventor: Tao HOU	Date: Feb 13	2019
- 11		
Signature: Tao Hou		

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Docket No		
X1701003B2/	TD1901005	16US3

Title of Invention	PRINTED CIRCUIT BOARD, METHOD FOR DETERMINING ENGAGEMENT STATE BETWEEN PRINTED CIRCUIT BOARD AND FLEXIBLE PRINTED CIRCUIT AND DISPLAY DEVICE		
As a below	named inventor, I hereby declare that:		
This declar	ation		
is directed	to: F The attached application, or		
	United States application or PCT international application number		
The above-identified application was made or authorized to be made by me.			
l believe tha	it I am the original inventor or an original joint inventor of a claimed invention ation.		
l hereby a punishable years, or bo	cknowledge 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.		
adequacy o	OOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and f which are hereby acknowledged, each undersigned inventor (hereinafter s "ASSIGNOR"), do hereby:		
	GN AND TRANSFER to _ Chengdu BOE Optoelectronics Technology Co.,		
	naving a place of business at No.1188 Hezuo Rd., (West Zone), Hi-tech		
	nt Zone, Chengdu, Sichuan 611731, P.R.China and BOE DGY GROUP CO., LTD. having a place of business at No.10		

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/CN2018/098167 filed on AUGUST 1, 2018; which in turn claims priority to CN201710860487.4 filed on <a href="SEPTEMBER 21, 2017; 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;

referred to as "ASSIGNEE"), the entire right, title and interest for the United States and

Jiuxianqiao Rd., Chaoyang District, Beijing, 100015, P.R. China

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

1

PATENT REEL: 048474 FRAME: 0558

(each hereinafter

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 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.

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ASSIGNOR HEREBY GRANTS to the agents and attorneys of Arent Fox LLP |
Attorneys at Law 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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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.

LEGAL NAME OF INVENTOR	,		
Inventor: Junping BAO	Date:	Feb. 13. 2019	
Signature: Junping BAD]

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Docket No.	A. I	
X170100	3B2/TD190100516U	\$3

Title of Invention	PRINTED CIRCUIT BOARD, METHOD FOR DETERMINING ENGAGEMENT STATE BETWEEN PRINTED CIRCUIT BOARD AND FLEXIBLE PRINTED CIRCUIT AND DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
This decla	ration
is directed	to: F The attached application, or
believe that in the applic hereby a	cknowledge 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)
adequacy o	OOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and f which are hereby acknowledged, each undersigned inventor (hereinafter s "ASSIGNOR"), do hereby:

SELL, ASSIGN AND TRANSFER to _ Chengdu BOE Optoelectronics Technology Co., having a place of business at No.1188 Hezuo Rd., (West Zone), Hi-tech Development Zone, Chengdu, Sichuan 611731, P.R.China TECHNOLOGY GROUP CO., LTD. , having a place of business at ____ 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 aboveidentified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to PCT/CN2018/098167 filed AUGUST 1, 2018; which in turn claims priority to CN201710860487.4 filed on <u>SEPTEMBER 21, 2017</u>; 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;

1

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ASSIGNOR HEREBY GRANTS to the agents and attorneys of Arent Fox LLP |
Attorneys at Law 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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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.

LEGAL NAME OF INVENTOR	
Inventor: Xinghua LI	Date: Fab. 12 2019
Signature: Yanghua)	

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