04/19/2018 504876714

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4923454

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YU ZHANG	03/15/2018
HAO ZHOU	03/15/2018
WEIHAO HU	03/15/2018
HAI CHI	03/15/2018
LIANG ZHANG	03/15/2018
WEI ZHANG	03/15/2018

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:	BEIJING BOE DISPLAY TECHNOLOGY CO., LTD.
Street Address:	NO.118 JINGHAIYILU, BDA
City:	BEIJING
State/Country:	CHINA
Postal Code:	100176

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15769505	

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: 1675 BROADWAY

Address Line 4: NEW YORK, NEW YORK 10019

REEL: 045589 FRAME: 0313

PATENT

ATTORNEY DOCKET NUMBER:	038835.00042
NAME OF SUBMITTER:	MICHAEL FAINBERG
SIGNATURE:	/Michael Fainberg/
DATE SIGNED:	04/19/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 12	
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> PATENT REEL: 045589 FRAME: 0314

Docket No.	
PX1602514B4CN	LWOUS/US1802372FP

Title of Invention	TRANSPARENT DISPLAY DEVICE
As a below	v named inventor, I hereby declare that:
This decla	ration
is directed	to: The attached application, or
The above-	United States application or PCT international application numberfiled on identified application was made or authorized to be made by me.
believe the	at I am the original inventor or an original joint inventor of a claimed invention cation.
	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) oth.
adequacy o	OOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and f which are hereby acknowledged, each undersigned inventor (hereinafter as "ASSIGNOR"), do hereby:
place of bu	IGN AND TRANSFER to <u>BOE Technology Group Co., Ltd.</u> , having a siness at <u>No.10 Jiuxianqiao Rd., Chaoyang District, Beijing 100015, P.R.</u>

SELL, ASSIGN AND TRANSFER to <u>BOE Technology Group Co., Ltd.</u>, having a place of business at <u>No.10 Jiuxianqiao Rd., Chaoyang District, Beijing, 100015, P.R. China</u>, and <u>BEIJING BOE DISPLAY TECHNOLOGY CO., LTD.</u>, having a place of business at <u>No.118 Jinghaiyilu, BDA. Beijing, 100176, P.R. China</u>...(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 <u>PCT/CN2017/104042</u> filed on <u>September 28, 2017</u>; which in turn claims priority to <u>CN201710160588.0</u> filed on <u>March 17, 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;

Docket No.			
PX160251484C3	v-wous/	US1802	372FP

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 Assignce.

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 NAM	E OF INVENTOR			
inventor:	Yu ZHANG	 ate Mw.	رايد,)آ	8
Signature:	Yu >HW6			

Docket No	
PX1602514B4CN-W	/OUS/US1802372FP

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This decla	ration
is directed	to: The attached application, or
The above-i	United States application or PCT international application number identified application was made or authorized to be made by me.
believe the	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.
	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 <u>BOE Technology Group Co., Ltd.</u> , having a

place of business at No.10 Jiuxianqiao Rd., Chaoyang District, Beijing, 100015, P.R. China and BEIJING BOE DISPLAY TECHNOLOGY CO., LTD. , having a place of business at No.118 Jinghaiyilu, BDA, Beijing, 100176, P.R. _____(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/CN2017/104042 filed on September 28, 2017; which in turn claims priority to CN201710160588.0 filed on March 17, 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;

Docket No		
PX160251484CN-WOUS/US18	8023	72FP

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 <u>Arent Fox LLP</u> 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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LEGAL NAME	E OF INVENTOR		
Inventor	Hao ZHOU	Date Mar. 12	. 2018
Signature	Hao zhou		

Docket No.	
PX1602514B4CN	LWOUS/US1802372FP

Title of Invention	TRANSPARENT DISPLAY DEVICE
As a below	rnamed inventor, I hereby declare that:
This declar	ration
is directed	to: The attached application, or
The above-i	United States application or PCT international application numberfiled on dentified application was made or authorized to be made by me.
	at I am the original inventor or an original joint inventor of a claimed invention
	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:
SELL ASS	IGN AND TRANSFER to BOE Technology Group Co. Ltd. having a

place of business at No.10 Jiuxianqiao Rd., Chaoyang District, Beijing, 100015, P.R. China and BEIJING BOE DISPLAY TECHNOLOGY CO., LTD. , having a place of business at No.118 Jinghaiyilu, BDA, Beijing, 100176, P.R. _____(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/CN2017/104042 filed on September 28, 2017; which in turn claims priority to CN201710160588.0 filed on March 17, 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;

Docket No_	
PX1602514B4CN	WOUS/US1802372FP

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ASSIGNOR HEREBY GRANTS to the agents and attorneys of <u>Arent Fox LLP</u>:

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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LEGAL NAME OF INVENTOR	
Inventor: Weihac HU	Sigs. Ti . Toll
construct Alas have the	
Organica System Walk N His	

Docket No	
PX1602514B4CN	WOUS/US1802372FP

Title of Invention	TRANSPARENT DISPLAY DEVICE
As a below	rnamed inventor, I hereby declare that:
This declar	ration
is directed	to: The attached application, or
The above-i	United States application or PCT international application numberfiled on dentified application was made or authorized to be made by me.
	at I am the original inventor or an original joint inventor of a claimed invention
	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:
SELL ASS	IGN AND TRANSFER to BOE Technology Group Co. Ltd. having a

place of business at No.10 Jiuxianqiao Rd., Chaoyang District, Beijing, 100015, P.R. China and BEIJING BOE DISPLAY TECHNOLOGY CO., LTD. , having a place of business at No.118 Jinghaiyilu, BDA, Beijing, 100176, P.R. _____(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/CN2017/104042 filed on September 28, 2017; which in turn claims priority to CN201710160588.0 filed on March 17, 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;

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Docke	t No.
PX1602514E	MCN-WOLLS/ES1802372FP

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LEGAL NAN	NE OF INVENTOR		•
inventor:	Haj CHi	Date Mar. 15.	2018
Signature	Hai CH	<u>.</u>	

Docket No.	
PX1602514B4CN	LWOUS/US1802372FP

Title of Invention	TRANSPARENT DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
This declar	ration
is directed	to: The attached application, or
	United States application or PCT international application number
The above-i	dentified application was made or authorized to be made by me.
I believe tha in the applic	at I am the original inventor or an original joint inventor of a claimed invention ation.
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Docket No.
PX1602514B4CN-WOLS/US1802372FP

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LEGAL NAMI	E OF INVENTOR.	
inventor	Liáng ZHANG	Date: Mar., 15, 2018
	Liang ZHANCE	

Docket No		_
PX1602514B4CN-W0	OUS/US1802372FI	Ĺ

Title of TRANSPARENT DISPLAY DEVICE Invention
As a below named inventor, I hereby declare that:
This declaration
is directed to:
United States application or PCT international application number filed on The above-identified application was made or authorized to be made by me.
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.
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

SELL, ASSIGN AND TRANSFER to <u>BOE Technology Group Co., Ltd.</u>, having a place of business at <u>No.10 Jiuxianqiao Rd.</u>, Chaoyang District, Beijing, 10015, P.R. China and <u>BEUING BOE DISPLAY TECHNOLOGY CO., LTD.</u>, having a place of business at <u>No.118 Jinghaiyilu</u>, <u>BDA</u>, Beijing, 100176, 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 <u>PCT/CN2017/104042</u> filed on <u>September 28, 2017</u>; which in turn claims priority to <u>CN201710160588.0</u> filed on <u>March 17, 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;

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Docket	No.
PX1602514B	4CN-WOLS/ES1802372FF

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LEGAL NAME	OF INVENTOR	
inventor:	Wei ZHANG	Date: MM. 15,2018
Signature:	Wei ZHANG	

2

PATENT REEL: 045589 FRAME: 0326

RECORDED: 04/19/2018