505351619 02/28/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5398404

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIANDONG MENG	02/15/2019
WEI WANG	02/15/2019
XUE DONG	02/15/2019
JING LV	02/15/2019
XIAOCHUAN CHEN	02/15/2019
JIFENG TAN	02/15/2019
JIAN GAO	02/15/2019
XIANQIN MENG	02/15/2019

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16329456

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

ATTORNEY DOCKET NUMBER:	038835.00139
NAME OF SUBMITTER:	MICHAEL FAINBERG

505351619 PATENT REEL: 048468 FRAME: 0041

SIGNATURE:	/Michael Fainberg/
DATE SIGNED:	02/28/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 16	
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PATENT REEL: 048468 FRAME: 0042

Title of Invention	AREA LIGHT SOURCE AND DISPLAY DEVICE		
As a below	As a below named inventor, I hereby declare that:		
This declaration The attached application, or 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 i	at I am the original inventor or an original joint inventor of a claimed invention		
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) oth.		
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:			
"havi Beijing ,1 "ASSIGN countries applicatio undersign PCT/CN2 CN20171 continuin	ASSIGN AND TRANSFER to BOE Technology Group Co., Ltd., ng a place of business at No.10 Jiuxianqiao Rd., Chaoyang District, 00015, P.R. China (hereinafter referred to as EE"), the entire right, title and interest for the United States and all foreign in and to any and all inventions which are disclosed in the above-identified n for United States Letters Patent, which has been executed by the ed concurrently herewith, which claims priority to 018/090697 filed on Jun.11.2018; which in turn claims priority to 0647865.0 filed on Aug.01,2017; such applications and all divisional, grant to the United States and all other applications for patent which have		
invention United St right to f	shall be filed in the United States and all foreign countries on any of such is; all original and reissued patents which have been or shall be issued in the ates and all foreign countries on such inventions; and specifically including the foreign applications under the provisions of any convention or treaty and ority 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

REEL: 048468 FRAME: 0043

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	<u>.</u>
Inventor: Xiandong MENG	Date: 45, 15, 2019
Signature: Xiondong MTNG	

Title of Invention	AREA LIGHT SOURCE AND DISPLAY DEVICE		
As a below	As a below named inventor, I hereby declare that:		
1	☑ The attached application, or		
in the appli	cation. acknowledge 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)		
sell, havi Beijing ,1 "ASSIGN countries applicatio undersign PCT/CN2 CN20171 continuin been or sinvention United Stright to f	of which are hereby acknowledged, each undersigned inventor (hereinafter as "ASSIGNOR"), do hereby: ASSIGN AND TRANSFER to BOE Technology Group Co., Ltd. ng a place of business at No.10 Jiuxianqiao Rd., Chaoyang District 00015, P.R. China (hereinafter referred to as IEE"), the entire right, title and interest for the United States and all foreign in and to any and all inventions which are disclosed in the above-identified in for United States Letters Patent, which has been executed by the ded concurrently herewith, which claims priority to 1018/090697 filed on Jun.11,2018; which in turn claims priority to 0647865.0 filed on Aug.01,2017; such applications and all divisional g, substitute, renewal, reissue and all other applications for patent which have shall be filed in the United States and all foreign countries on any of such a loriginal and reissued patents which have been or shall be issued in the tates and all foreign applications under the provisions of any convention or treaty and ority based on such application in the United States;		
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States and foreign patents granted on such inventions to the Assignee;

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LEGAL NA	ME OF INVENTOR	_	
Inventor:	Wei WANG	Date: 74, 15, 7019	
Signature:	Wei WAM	/	<u></u>

Title of AREA LIGHT	SOURCE AND DISPLAY DEVICE	
As a below named inventor	, I hereby declare that:	
This declaration	e attached application, or	
is directed to:		
Un numbe	ited States application or PCT international application er	
The above-identified applica	er filed on	
I believe that I am the origin in the application.	al inventor or an original joint inventor of a claimed invention	
I hereby acknowledge tha punishable under 18 U.S.C years, or both.	t any willful false statement made in this declaration is 2. 1001 by fine or imprisonment of not more than five (5)	
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:		
having a place of b Beijing 100015, P.R. Chin		
countries in and to any ar	right, title and interest for the United States and all foreign and all inventions which are disclosed in the above-identified States Letters Patent, which has been executed by the	
undersigned concurrently	herewith, which claims priority to ed on; which in turn claims priority to	
CN201710647865.0 filed	d on <u>Aug.01,2017</u> ; such applications and all divisional, ewal, 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		
Ullified Diales and an ioleis	d reissued patents which have been or shall be issued in the gn countries on such inventions; and specifically including the	

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States and foreign patents granted on such inventions to the Assignee;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United

PATENT REEL: 048468 FRAME: 0047

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;

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LEGAL NAME OF INVENTOR	71
Inventor: Xue DONG	Date: Teb, 15, 2019
Signature: XNE DONG	

Title of Invention	AREA LIGHT SOURCE AND DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
This decla	to: The attached application, or United States application or PCT international application
l believe tha in the applic	numberfiled onidentified 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 cation. cknowledge that any willful false statement made in this declaration is
punishable years, or bo	under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5)
FOR G	OOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and

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	o., Ltd.
, having a place of business atNo.10 Jiuxianqiao Rd., Chaoyang	District,
Beijing 100015, P.R. China (hereinafter referr	red 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-id	lentified
application for United States Letters Patent, which has been executed	by the
undersigned concurrently herewith, which claims priority	to
PCT/CN2018/090697 filed on Jun.11,2018; which in turn claims pro	iority to
CN201710647865.0 filed on Aug.01,2017; such applications and all div	visional,
continuing, substitute, renewal, reissue and all other applications for patent whi	ich 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 issue	d in the
United States and all foreign countries on such inventions; and specifically inclu	iding the
right to file foreign applications under the provisions of any convention or tre	eaty 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 is possessed by the undersigned;

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LEGAL NAME OF INVENTOR	7 1 10
Inventor: Jing LV	Date: 18, 15, 20/9
Signature: Jing LV	

Title of Invention	AREA LIGHT SOURCE AND DISPLAY DEVICE
As a below	named inventor, I hereby declare that:
This decla	₩ 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.
I believe the	at I am the original inventor or an original joint inventor of a claimed invention cation.
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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 Jiuxiangiao Rd., Chaoyang District, (hereinafter referred to as Beijing ,100015, P.R. China "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 claims priority undersigned concurrently herewith, which PCT/CN2018/090697 filed on Jun.11,2018; which in turn claims priority to CN201710647865.0 filed on Aug.01,2017; 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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LEGAL NAME OF INVENTOR	Til it ail 9
Inventor: Xiaochuan CHEN	Date: 10, 13, 7017,
Signature: Xian Chuan (MTN)	

Title of Invention	AREA LIGHT SOURCE AND DISPLAY DEVICE
As a belov	v named inventor, I hereby declare that:
This decla	
is directed	to: The attached application, or
	United States application or PCT international application
The above-	number filed on identified application was made or authorized to be made by me.
I believe th in the appli	at I am the original inventor or an original joint inventor of a claimed invention cation.
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FOR G	OOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and of which are hereby acknowledged, each undersigned inventor (hereinafter as "ASSIGNOR"), do hereby:
SELL	, ASSIGN AND TRANSFER to BOE Technology Group Co., Ltd.
	ng a place of business at No.10 Jiuxianqiao Rd., Chaoyang District.
Beijing 1	00015, P.R. China (hereinafter referred to as

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LEGAL NAME OF INVENTOR	1.1
Inventor:	Date: 1eh, 15, 2019
Signature: Jifeng 74N	

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This declaration is directed to: The attached application, or			
adequacy of referred to SELL	of which are hereby acknowledged, each undersigned inventor (hereinafter as "ASSIGNOR"), do hereby: ASSIGN AND TRANSFER to BOE Technology Group Co., Ltd., ng a place of business at No.10 Jiuxianqiao Rd., Chaoyang District, 00015, P.R. China (hereinafter referred to as IEE"), the entire right, title and interest for the United States and all foreign in and to any and all inventions which are disclosed in the above-identified n for United States Letters Patent, which has been executed by the ed concurrently herewith, which claims priority to 108/090697 filed on Jun.11.2018; which in turn claims priority to 647865.0 filed on Aug.01.2017; such applications and all divisional, g, substitute, renewal, reissue and all other applications for patent which have thall be filed in the United States and all foreign countries on any of such ates and all foreign countries on such inventions; and specifically including the ile foreign applications under the provisions of any convention or treaty and ority based on such application in the United States;		

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LEGAL NAME OF INVENTOR	7.1
Inventor: Jian GAO	Date: 1eb, 15, 2019
Signature: Jian GAO	

Title of Invention	AREA LIGHT SOURCE AND DISPLAY DEVICE
As a below	v named inventor, I hereby declare that:
}	to: United States application or PCT international application number
in the applic hereby a punishable	icknowledge 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 of	OOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and of which are hereby acknowledged, each undersigned inventor (hereinafter as "ASSIGNOR"), do hereby:
,havi Beijing ,1 "ASSIGN countries applicatio undersign PCT/CN2 CN20171 continuin	ASSIGN AND TRANSFER to BOE Technology Group Co., Ltd. ng a place of business at No.10 Jiuxianqiao Rd., Chaoyang District, 00015, P.R. China (hereinafter referred to as IEE"), the entire right, title and interest for the United States and all foreign in and to any and all inventions which are disclosed in the above-identified in for United States Letters Patent, which has been executed by the ed concurrently herewith, which claims priority to 018/090697 filed on Jun.11,2018; which in turn claims priority to 0647865.0 filed on Aug.01,2017; such applications and all divisional, g, substitute, renewal, reissue and all other applications for patent which have shall be filed in the United States and all foreign countries on any of such

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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

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: Xiangin MENG	_ Date: _ Leb , 15 , 20 19	
signature: Xiangin MZNG	/	

2

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