504771691 02/09/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4818419

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JINCHENG GAO	01/10/2018
XIAOLONG HE	01/10/2018
ZHANFENG CAO	01/10/2018
BIN ZHANG	01/10/2018
QI YAO	01/10/2018
ZHENGLIANG LI	01/10/2018
XUEFEI SUN	01/10/2018
WEI ZHANG	01/10/2018

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:	HEFEI BOE DISPLAY TECHNOLOGY CO., LTD.
Name: Street Address:	HEFEI BOE DISPLAY TECHNOLOGY CO., LTD. BLOCK 15 GROUP-A ZONE-E OF INDUSTRIAL PARK
	·
Street Address:	BLOCK 15 GROUP-A ZONE-E OF INDUSTRIAL PARK
Street Address: Internal Address:	BLOCK 15 GROUP-A ZONE-E OF INDUSTRIAL PARK HEFEI NEW STATION

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15751511

CORRESPONDENCE DATA

504771691

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:

2124843900

Email: patentdocket@arentfox.com

Correspondent Name: MICHAEL FAINBERG Address Line 1: 1675 BROADWAY Address Line 2: ARENT FOX LLP

Address Line 4: NEW YORK, NEW YORK 10019

ATTORNEY DOCKET NUMBER:	038835.00023	
NAME OF SUBMITTER: MICHAEL FAINBERG		
SIGNATURE:	/Michael Fainberg/	
DATE SIGNED:	02/09/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 24 source=038835-00023DECS#page1.tif source=038835-00023DECS#page2.tif source=038835-00023DECS#page3.tif source=038835-00023DECS#page4.tif source=038835-00023DECS#page5.tif source=038835-00023DECS#page6.tif source=038835-00023DECS#page7.tif source=038835-00023DECS#page8.tif source=038835-00023DECS#page9.tif source=038835-00023DECS#page10.tif source=038835-00023DECS#page11.tif source=038835-00023DECS#page12.tif source=038835-00023DECS#page13.tif source=038835-00023DECS#page14.tif

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Docket No	
PX1600011B9CN-WOUS/US1712586FF	5

Title of Invention SWITCH ELEMENT, ARRAY SUBSTRATE, DISPLAY PANEL, AND
As a below named inventor, I hereby declare that:
This declaration is directed to: The attached application, or
I 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 <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>HEFEI BOE DISPLAY TECHNOLOGY CO., LTD.</u> , having a place of business at <u>Block 15 group-A zone-E of Industrial park in Hefei New Station Hefei city, Anhui 230012, 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

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

applications under the provisions of any convention or treaty and claim priority based on

countries on such inventions; and specifically including the right to file foreign

such application in the United States;

application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to <u>PCT/CN2017/098824</u> filed on August 24, 2017; which in turn claims priority to <u>201610971097.X</u> filed on October 27, 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

1

Docket No	
PX1600011B9CN-	WOUS/US1712586FP

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.

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STATEMENTS

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Docket No.	one contract.
PX1600011B9CN-WOUS/US171258	

ļ	EGAL NAME OF INVENTOR			ű.	tan .	
	Inventor:Jincheng_GAO		Date:	Jan.	10,2018	*********
	Signature: J <i>Ím/k@na</i>	ado				

Docket No	
PX1600011B9CN-WOUS/US1712586FF	5

SWITCH ELEMENT, ARRAY SUBSTRATE, DISPLAY PANEL, AND

Title of DISPLAY DEVICE Invention			
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This declaration			
is directed to: √The attached application, or			
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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Docket No.	
PX1600011B9CN-WOU	JS/US1712586FP

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2

Docket No	
PX1600011B9CN-WOU	S/US1712586FP

LEGAL NAME OF INVENTOR	
Inventor: Xiaolong HE Date: Jan. 10, 2018	
Signature: Xiaolong HE	

Docket No.	
PX1600011B9CN-WOUS/US1712586FP	

Title of Invention SWITCH ELEMENT, ARRAY SUBSTRATE, DISPLAY PANEL, AND			
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This declaration is directed to: √The attached application, or			
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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place of business at Block 15 group-A zone-E of Industrial park in Hefei New Station Hefei city, Anhui 230012, China (each hereinafter referred to as			

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applications under the provisions of any convention or treaty and claim priority based on

countries on such inventions; and specifically including the right to file foreign

such application in the United States;

"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/CN2017/098824</u> filed on August 24, 2017; which in turn claims priority to <u>201610971097.X</u> filed on October 27, 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

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Docket No	
PX1600011B9CN-	WOUS/US1712586FP

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2

Docket No.	88877777779
PX1600011B9CN-WOUS/US	1712586FP

LEGAL NAME OF INVENTOR	
Inventor: Zhanfeng CAO	Date: Jan 10, 2018
Signature: Zhanfens (AO	

Docket No	
PX1600011B9CN-WOUS/US1712586FF	5

Title of Invention SWITCH ELEMENT, ARRAY SUBSTRATE, DISPLAY PANEL, AND		
As a below named inventor, I hereby declare that:		
This declaration /The attached application as		
is directed to: √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.		
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
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P.R. China ,and , HEFEI BOE DISPLAY TECHNOLOGY CO., LTD. , having a place of business at Block 15 group-A zone-E of Industrial park in Hefei New		
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Docket No.	
PX1600011B9CN-WOU	JS/US1712586FP

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2

Docket No.	
PX1600011B9CN-WOUS	S/US1712586FP

LEGAL NAME OF INVENTOR	
Inventor: Bin ZHANG	Date: 10, 2018
Signature: Pin 24AMa	****

Docket No.	
PX1600011B9CN-WOUS/US1712586FI	5

Title of DISPLAY DEVICE Invention
As a below named inventor, I hereby declare that:
This declaration
is directed to: √The attached application, or
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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October 27, 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

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Docket No	
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2

Docket No	 	
PX1600011R9CN		

LEGAL NAME OF INVENTOR			
Inventor: Qi YAQ	Date:	Jan . 10	. 2018
Signature: Q2 Ya0			

Docket No.	
PX1600011B9CN-WOUS/US1712586FI	5

Title of Invention SWITCH ELEMENT, ARRAY SUBSTRATE,	DISPLAY	PANEL,	AND
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2.

Docket No.	
PX1600011B9CN	-WOUS/US1712586FP

	LEGAL NAME OF INVENTOR	
-	Inventor: Zhengliang LI Date: 1/(pr. 10) 2015	2
-	Signature: 2 h Booth or is U	

Docket No	
PX1600011B9CN-WOUS/US1712586FF	5

SWITCH FIRMENT ADDAY SUBSTDATE DISDLAY DANEL

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I 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 <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>HEFEI BOE DISPLAY TECHNOLOGY CO., LTD.</u> , having a place of business at <u>Block 15 group-A zone-E of Industrial park in Hefei New Station Hefei city, Anhui 230012, 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		

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

applications under the provisions of any convention or treaty and claim priority based on

countries on such inventions; and specifically including the right to file foreign

such application in the United States;

application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to <u>PCT/CN2017/098824</u> filed on August 24, 2017; which in turn claims priority to <u>201610971097.X</u> filed on October 27, 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

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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 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 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.

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LEGAL NAME OF INVENTOR	
Inventor: Xuefei SUN Date: Java 10. 2016	3
Signature: Xuetei Sun	88 - 888 (1965) - 1 - 60 (1975)

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SWITCH ELEMENT ADDAY SUBSTDATE DISPLAY DANCE

Title of DISPLAY DEVICE Invention
As a below named inventor, I hereby declare that:
This declaration is directed to: √The attached application, or
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.
I 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 <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>HEFEI BOE DISPLAY TECHNOLOGY CO., LTD.</u> , having a place of business at <u>Block 15 group-A zone-E of Industrial park in Hefei New</u>
Station Hefei city, Anhui 230012, China

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;

applications under the provisions of any convention or treaty and claim priority based on

countries on such inventions; and specifically including the right to file 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/CN2017/098824 filed on August 24, 2017; which in turn claims priority to 201610971097.X filed on October 27, 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

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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 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 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.

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LEGAL NAME OF INVENTOR	8888	-3	
Inventor: Wel ZHANG	Date:	Jan. 10,71)	<i>J</i>
Signature: Wei ZHANG			