# **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5108434

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
HUAN LIU	06/29/2018
XUNZE ZHANG	06/29/2018
GAN SONG	06/29/2018
HAO ZHU	06/29/2018
DONG DING	06/29/2018
XIAOKUN WANG	06/29/2018
QINGLIANG WEN	06/29/2018
JIAN WANG	06/29/2018
WENJUN ZHANG	06/29/2018
ZENGZHI XUAN	06/29/2018
WEI DONG	06/29/2018
JINWEI HUANG	06/29/2018
HU WANG	06/29/2018
HUALU WANG	06/29/2018

## **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 OPTOELECTRONICS TECHNOLOGY CO., LTD.
Name: Street Address:	HEFEI BOE OPTOELECTRONICS TECHNOLOGY CO., LTD. NO. 2177 TONGLINGBEI ROAD
	·
Street Address:	NO. 2177 TONGLINGBEI ROAD
Street Address: Internal Address:	NO. 2177 TONGLINGBEI ROAD HEFEI

**PROPERTY NUMBERS Total: 1** 

PATENT REEL: 046925 FRAME: 0419

Property Type	Number
Application Number:	16053913

#### **CORRESPONDENCE DATA**

**Fax Number:** (216)241-0816

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:** 216-622-8231

**Email:** ipdocket@calfee.com, kbuzinski@calfee.com

Correspondent Name: TODD R. TUCKER

Address Line 1: CALFEE, HALTER & GRISWOLD LLP

Address Line 2: THE CALFEE BUILDING, 1405 EAST SIXTH ST.

Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER:	35769/04305
NAME OF SUBMITTER:	TODD R. TUCKER
SIGNATURE:	/Todd R. Tucker/
DATE SIGNED:	08/24/2018

#### **Total Attachments: 28**

source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page1.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page2.tif source=2018-08-03\_-\_35769-04305\_-\_executed\_Oath\_and\_Assignment\_as\_filed\_-\_lz1804259cn01-us#page3.tif source=2018-08-03\_-\_35769-04305\_-\_executed\_Oath\_and\_Assignment\_as\_filed\_-\_lz1804259cn01-us#page4.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page5.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page6.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page7.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page8.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page9.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page10.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page11.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page12.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page13.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page14.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page15.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page16.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page17.tif source=2018-08-03\_-\_35769-04305\_-\_executed\_Oath\_and\_Assignment\_as\_filed\_-\_lz1804259cn01-us#page18.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page19.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page20.tif source=2018-08-03\_-\_35769-04305\_-\_executed\_Oath\_and\_Assignment\_as\_filed\_-\_lz1804259cn01-us#page21.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page22.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page23.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - lz1804259cn01-us#page24.tif source=2018-08-03\_-\_35769-04305\_-\_executed\_Oath\_and\_Assignment\_as\_filed\_-\_lz1804259cn01-us#page25.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page26.tif source=2018-08-03 - 35769-04305 - executed Oath and Assignment as filed - Iz1804259cn01-us#page27.tif

> PATENT REEL: 046925 FRAME: 0420

source=2018-08-03\_-\_35769-04305\_-\_executed\_Oath\_and\_Assignment\_as\_filed\_-\_lz1804259cn01-us#page28.tif

PATENT REEL: 046925 FRAME: 0421

Title of Invention	
As a below	named inventor, I hereby declare that:
This decla	ration
is directed	to: For The attached application, or
The above-	United States application or PCT international application number filed 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.
	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.

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 Jiuxianqiao Rd., Chaoyang District, Beijing, 100015, P. R. China, and Hefei BOE Optoelectronics Technology Co., Ltd., having a place of business at No. 2177 Tonglingbei Road, Hefei, Anhui, 230012, 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 201710918952.5 filed on September 30, 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;

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 \_\_\_\_\_\_ 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.

LEGAL NAME OF INVENTOR	
Inventor: Huan LIU	Date: 2018 . 6 . 2 9.
Signature: HUAN LIU	

Title of Invention	
As a below	named 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 number filed on  dentified application was made or authorized to be made by me.
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l hereby ac 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.

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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.

LEGAL NAME OF INVENTOR		
Inventor: Xunze ZHANG	Date:	2018.6.29
Signature:Xunze ZHANG		

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Title of Invention									
As a below	named inve	ntor, I hereby	declare ti	nat:	·				
This declar	ration								
is directed	to:	The attached	l application	on, or					
	Г nui	United Stat	fi	led on				appl	ication
The above-i	dentified app	lication was r	nade or a	uthorized	to be	made	by me.		
I believe tha in the applic	it I am the or ation.	iginal invento	r or an ori	ginal join	t inver	itor of	a claime	ed inv	ention
I hereby ac punishable years, or bo	cknowledge under 18 U. th.	that any wil S.C. 1001 b	ful false y fine or i	statemer mprisonr	nt mad nent d	le in f not	this de more th	clarat an fi	ion is ve (5)
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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: Gan SONG	Date:	248. 6. 24	
Signature: GUN SON A			

I	T T T T T T T T T T T T T T T T T T T	
Title of Invention		
As a below	v named inventor, I hereby declare that:	
This declar	ration	
is directed	to: The attached application, or	· .
The shows i	United States application or PCT international numberfiled on	application
THE ADOVE-I	identified 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 cation.	d invention
I hereby ac punishable years, or bo	cknowledge that any willful false statement made in this decl under 18 U.S.C. 1001 by fine or imprisonment of not more tha oth.	laration is an five (5)

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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.

LEGAL NAME OF INVENTOR	
Inventor: Hao ZHU	Date: 20/8/6/29
Signature: Han Zhi	, , ,

Title of Invention	
As a below	v named inventor, I hereby declare that:
This decla	ration
is directed	to: The attached application, or
The above-i	United States application or PCT international application number filed on identified 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
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LEGAL NAME OF INVENTOR	
Inventor: Dong DING	Date: Zolf-629
Signature: Dong DING	

Title of Invention		
As a below	w named inventor, I hereby declare that:	
This decla	aration	
is directed	to: The attached application, or	
The above i	United States application or PCT international number filed on	application
ITTIE GDOVE-I	identified 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 claime cation.	d invention
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LEGAL NAME OF INVENTOR	
Inventor: Xiaokun WANG	Date: 2018-6.79
Signature: Xiao Kun WANG	

Title of Invention		
As a below	v named inventor, I hereby declare that:	* · · · · · · · · · · · · · · · · · · ·
This decla	ration	
is directed	to:	
	United States application or PCT internations number filed on	
The above-i	identified application was made or authorized to be made by me	١.
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I hereby ac punishable years, or bo	cknowledge that any willful false statement made in this dunder 18 U.S.C. 1001 by fine or imprisonment of not more oth.	eclaration is than five (5)

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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.

LEGAL NAME OF INVENTOR	
Inventor: Qingliang WEN	Date: 2018, 6,29.
Signature: Qinaliam WEN	

Title of Invention		· .· .· .
As a below	v named inventor, I hereby declare that:	
This declar	ration	
is directed	to:  The attached application, or	
	United States application or PCT international a	application
The above-i	identified 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 cation.	l invention
l hereby ac punishable years, or bo	cknowledge that any willful false statement made in this declar under 18 U.S.C. 1001 by fine or imprisonment of not more that th.	aration is n five (5)

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#### **STATEMENTS**

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LEGAL NAME OF INVENTOR	
Inventor: Jian WANG	Date: 2018, 6,29
Signature: JIAN WANG	,

Title of Invention						
As a below	named invento	or, I hereby de	eclare that:			-
This declar	ation					
is directed	to: 🔽 Th	ne attached a	pplication, o	•		
	numk	er	filed o	ח	international	application
The above-i	dentified applic	ation was ma	de or author	ized to be	made by me.	
I believe tha in the applic	t I am the origi ation.	nal inventor o	r an original	joint inver	ntor of a claim	ed invention
l hereby ac punishable years, or bo	knowledge thau under 18 U.S. th.	at any willful C. 1001 by f	false state ine or impri	ment mad sonment d	de in this de of not more th	claration is nan five (5)

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#### **STATEMENTS**

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LEGAL NAME OF INVENTOR	
Inventor: Wenjun ZHANG	Date: 70/8 .06 .29
Signature: Wenjun 2/Ant	

Title of Invention	1	
As a below	w named inventor, I hereby declare that:	·
This decla	aration	
is directed	d to: The attached application, or	
	United States application or PCT international approximation of the states application or PCT international approximation of the states application or PCT international approximation of the states application or PCT international approximation or PCT internation or PCT international approximation or PCT internation or PCT international approximation approximation or PCT international approximation approxi	plication
The above-i	-identified application was made or authorized to be made by me.	
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l hereby ac punishable years, or bo	acknowledge that any willful false statement made in this declarate under 18 U.S.C. 1001 by fine or imprisonment of not more than oth.	ation is five (5)

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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.

LEGAL NAME OF INVENTOR	
Inventor: Zengzhi XUAN	Date: ひ/を - 06 . ユア
Signature: Zengzki YUAN	

<u> </u>	
Title of Invention	
As a below	named inventor, I hereby declare that:
This decla	ration
is directed	to: The attached application, or
	United States application or PCT international application numberfiled on
The above-i	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 ation.
I hereby ac 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.

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LEGAL NAME OF INVENTOR	
Inventor: Wei DONG	Date: 27/8.06.29
Signature: Wei DanG	<b>,</b>

T						
Title of Invention						
As a below	named inve	ntor, I hereby o	leclare that:			
This declara	ation					
is directed t	o: 🔽	The attached	application, or			
The above !!	nui	United State	filed or	ו		application
i ne above-id	entified app	lication was m	ade or authoriz	zed to be	made by me.	
I believe that in the applica	I am the or	iginal inventor	or an original j	joint inver	ntor of a claime	ed invention
l hereby acl punishable u years, or both	inder 18 U.	that any willfu S.C. 1001 by	ıl false stater fine or impris	ment mad onment o	de in this de of not more th	claration is nan five (5)
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LEGAL NAME OF INVENTOR	
Inventor: Jinwei HUANG	Date: 70/8.06.29.
Signature: JINWE HUANG	

		······					
Title of Invention							
As a below	named inv	entor, I heret	y declar	e that:			***************************************
This declar	ration						
is directed	to:	The attache	ed applic	ation, or			
	in n	umber		filed on	1	internationa	
The above-i	dentified ap	plication was	made o	r authoriz	ed to be	made by me.	
I believe tha in the applic	nt I am the cation.	original inven	tor or an	original j	oint inven	tor of a claim	ned invention
l hereby ac punishable years, or bo	under 18 L	that any w J.S.C. 1001	rillful fals by fine o	se staten or impriso	nent mad onment o	de in this de f not more t	eclaration is han five (5)
		***************************************		<del></del>			

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#### **STATEMENTS**

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LEGAL NAME OF INVENTOR	
Inventor: Hu WANG	Date: 20/8 · 6 · 29
Signature: HWNANG	

Title of Invention	n	
As a below	ow named inventor, I hereby declare that:	
This declar	laration	
is directed	ed to: The attached application, or	
	United States application or PCT international a number filed on	pplication
i ne above-i	e-identified application was made or authorized to be made by me.	
I believe tha in the applic	hat I am the original inventor or an original joint inventor of a claimed lication.	invention
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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.

Inventor: Hualu WANG
Signature: Hualy Name

Date: 2018 6 29

2

RECORDED: 08/24/2018