#### 505712438 10/08/2019

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5759248

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HAOCHEN CUI	09/30/2019
PEIZHI CAI	09/30/2019
CHUNCHENG CHE	09/30/2019
FENGCHUN PANG	09/30/2019
YINGYING ZHAO	09/30/2019
YUE GENG	09/30/2019
LE GU	09/30/2019
NAN ZHAO	09/30/2019
YUELEI XIAO	09/30/2019
HUI LIAO	09/30/2019

#### **RECEIVING PARTY DATA**

Name:	BEIJING BOE OPTOELECTRONICS TECHNOLOGY CO., LTD.
Street Address:	NO.8 XIHUANZHONGLU, BDA
City:	BEIJING
State/Country:	CHINA
Postal Code:	100176
Name:	BOE TECHNOLOGY GROUP CO., LTD.
Name: Street Address:	BOE TECHNOLOGY GROUP CO., LTD.  NO. 10 JIUXIANQIAO RD., CHAOYANG DISTRICT
	·
Street Address:	NO. 10 JIUXIANQIAO RD., CHAOYANG DISTRICT

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16603648

### **CORRESPONDENCE DATA**

Fax Number: (202)822-1111

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: 2028221100

**PATENT** REEL: 050653 FRAME: 0680 505712438

Email: PatentMail@Whda.com

Correspondent Name: WESTERMAN, HATTORI, DANIELS & ADRIAN LLP

Address Line 1: 1250 CONNECTICUT AVENUE NW,

Address Line 2: SUITE 700

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	P190933US00
NAME OF SUBMITTER:	YOLIDIA A. PASOS
SIGNATURE:	/YOLIDIA A. PASOS/
DATE SIGNED:	10/08/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

### **Total Attachments: 20**

source=P190933US00 Dec&Assignment 10 08 2019#page1.tif source=P190933US00 Dec&Assignment 10 08 2019#page2.tif source=P190933US00\_Dec&Assignment\_10\_08\_2019#page3.tif source=P190933US00 Dec&Assignment 10 08 2019#page4.tif source=P190933US00 Dec&Assignment 10 08 2019#page5.tif source=P190933US00\_Dec&Assignment\_10\_08\_2019#page6.tif source=P190933US00\_Dec&Assignment\_10\_08\_2019#page7.tif source=P190933US00 Dec&Assignment 10 08 2019#page8.tif source=P190933US00 Dec&Assignment 10 08 2019#page9.tif source=P190933US00\_Dec&Assignment\_10\_08\_2019#page10.tif source=P190933US00 Dec&Assignment 10 08 2019#page11.tif source=P190933US00 Dec&Assignment\_10\_08\_2019#page12.tif source=P190933US00 Dec&Assignment 10 08 2019#page13.tif source=P190933US00 Dec&Assignment 10 08 2019#page14.tif source=P190933US00 Dec&Assignment 10 08 2019#page15.tif source=P190933US00 Dec&Assignment 10 08 2019#page16.tif source=P190933US00 Dec&Assignment 10 08 2019#page17.tif source=P190933US00\_Dec&Assignment\_10\_08\_2019#page18.tif source=P190933US00\_Dec&Assignment\_10\_08\_2019#page19.tif source=P190933US00 Dec&Assignment 10 08 2019#page20.tif

> PATENT REEL: 050653 FRAME: 0681

	ROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREOF, AN N-CHIP LABORATORY SYSTEM
As a below na	med inventor, I hereby declare that:
This declaration	n
is directed to:	The attached application, or
	United States application or PCT international application number
The above-iden	tified application was made or authorized to be made by me.
I believe that I a in the applicatio	m the original inventor or an original joint inventor of a claimed invention n.
i hereby acknov punishable und years, or both.	vledge that any willful false statement made in this declaration is er 18 U.S.C. 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:

SELL, ASSIGN AND TRANSFER to Beijing BOE Optoelectronics Technology Co., Ltd. ,having a place of business at No.8 Xihuanzhonglu, BDA, Beijing, 100176, P.R.China , and BOE TECHNOLOGY GROUP CO., LTD. , having a place of business at No.10 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 above-identified application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, which claims priority to PCT/CN2019/084635 filed on Apr.26,2019; which in turn claims priority to CN201810904259.7 \_\_filed on\_\_\_Aug.09.2018\_; 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:

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 <u>WHDA</u> 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: Haochen CUI	Date:	Sep. 30, 2019
 Signature: Haychen CVI		

	MICROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREOF, AN D ON-CHIP LABORATORY SYSTEM
As a below	v named inventor, I hereby declare that:
This decla	ration
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.
believe the	et I am the original inventor or an original joint inventor of a claimed invention cation.
hereby ac punishable years, or bo	knowledge 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.

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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: Peizhi CAI	Date: Sep. 30,2019
Signature: Peizhi CAI	·

	MICROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREOF, AN D ON-CHIP LABORATORY SYSTEM
As a below	v 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-	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.
l hereby acl punishable years, or bo	knowledge 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) with.

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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: Chuncheng CHE	Date: Sep. 30, 2019
Signature: Chuncheng CHE	

Title of Invention	MICROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREOF, AN D ON-CHIP LABORATORY SYSTEM
As a belov	v 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-	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 ration.
hereby act punishable years, or bo	cnowledge 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: Fengchun PANG	Date: Sep. 30, 2019
L	Signature: Fengchun PANG	

	MICROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREOF, AN D ON-CHIP LABORATORY SYSTEM
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 onidentified 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 cation.
l hereby acl punishable years, or bo	knowledge 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: Yingying ZHAQ	Date: 54.30,2019
Signature: Yin4 ying ZHAD	-

Title of Invention	MICROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREOF, AN D ON-CHIP LABORATORY SYSTEM
As a belov	w named inventor, I hereby declare that:
This decia	E7 The establish and application as
The ahove.	United States application or PCT international application number
	at I am the original inventor or an original joint inventor of a claimed invention
I hereby ac punishable years, or bo	knowledge 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:

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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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#### 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: Yue GENG Date: Sep 30 , 2019
	Signature: YUE GENG

MICROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREOF, AN D ON-CHIP LABORATORY SYSTEM Invention
As a below named inventor, I hereby declare that:
This declaration
is directed to: Mr. 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.
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.

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LEGAL NAME OF INVENTOR	
Inventor: Le GU	Date: Sel. 30, 2019
Signature: Le GV	

	MICROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREOF, AN D ON-CHIP LABORATORY SYSTEM
As a below	named inventor, I hereby declare that:
This declar is directed	IV The attached application or
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	
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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 Beijing BOE Optoelectronics Technology Co., Ltd. having a place of business at No.8 Xihuanzhonglu, BDA, Beijing, 100176, 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/CN2019/084635 filed on Apr.26,2019; which in turn claims priority to CN201810904259.7 filed on Aug.09,2018; 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;

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 <u>WHDA</u> 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: Nan ZHAO	Date: 50, 30, 2019
Signature: Nan 2HAO	

MICROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREC Title of DON-CHIP LABORATORY SYSTEM Invention	)F, A1
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 inve in the application.	ntion
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.	

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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.

Ì	
	LEGAL NAME OF INVENTOR
-	Inventor: Yuelei XIAO Date: Sep. 30, 2019
Ĺ	Signature: Yue Ibi XIA0

	MICROFLUIDIC CHIP, DETECTING AND DRIVING METHOD THEREOF, AN D ON-CHIP LABORATORY SYSTEM
As a below	v named inventor, I hereby declare that:
This decla	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.
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.	

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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: Hui LIAO Date: Sep. 38, 2019
L	Signature: HUI LIAO