

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6143371

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the INVENTORSHIP previously recorded on Reel 052717 Frame 0190. Assignor(s) hereby confirms the ASSIGNMENT.
CONVEYING PARTY DATA	
Name	Execution Date
XURU ZHANG	03/24/2020
QIAN WANG	03/24/2020
DUO ZHANG	03/24/2020
YINGHAO ZHANG	03/25/2020
WEIMENG ZHANG	03/24/2020
FENG JIANG	03/24/2020
YANJIE ZHANG	03/24/2020
DONGXUE SUN	03/24/2020
YONGQUAN LU	03/24/2020
RECEIVING PARTY DATA	
Name:	BEIJING BOE DISPLAY TECHNOLOGY CO., LTD.
Street Address:	NO. 118 JINGHAIYILU, BDA
City:	BEIJING
State/Country:	CHINA
Postal Code:	100176
Name:	BOE TECHNOLOGY GROUP CO., LTD.
Street Address:	NO. 10 JIUXIANQIAO RD., CHAOYANG DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100015
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16758026
CORRESPONDENCE DATA	
Fax Number:	(971)271-8021
<i>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.</i>	
Phone:	9712718020

PATENT

Email: foreigninbound@mccrus.com
Correspondent Name: MCCOY RUSSELL LLP
Address Line 1: 806 SW BROADWAY, SUITE 600
Address Line 4: PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER: BOE20302PCTUS

NAME OF SUBMITTER: MARIE DOSICK

SIGNATURE: /Marie Dosick/

DATE SIGNED: 06/08/2020

Total Attachments: 21

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EPAS ID: PAT6115225

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
XURU ZHANG	03/24/2020
QIAN WANG	03/24/2020
DUO ZHANG	03/24/2020
YINGHAO ZHANG	03/25/2020
WEIMENG ZHANG	03/24/2020
FENG JIANG	03/24/2020
YANJIE ZHANG	03/24/2020
DONGXUE SUN <u>Yongquan LU</u> <u>03/24/2020</u>	03/24/2020
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Phone:	9712718020
Email:	foreigninbound@mccrus.com
Correspondent Name:	MCCOY RUSSELL LLP
Address Line 1:	806 SW BROADWAY, SUITE 600

MARKED-UP



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 21, 2020

PTAS

MCCOY RUSSELL LLP
806 SW BROADWAY, SUITE 600
PORTLAND, OR 97205

506068510

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 05/20/2020

REEL/FRAME: 052717/0190
NUMBER OF PAGES: 20

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: BOE20302PCTUS

ASSIGNOR:
ZHANG, XURU

DOC DATE: 03/24/2020

ASSIGNOR:
WANG, QIAN

DOC DATE: 03/24/2020

ASSIGNOR:
ZHANG, DUO

DOC DATE: 03/24/2020

ASSIGNOR:
ZHANG, YINGHAO

DOC DATE: 03/25/2020

ASSIGNOR:
ZHANG, WEIMENG

DOC DATE: 03/24/2020

ASSIGNOR:
JIANG, FENG

DOC DATE: 03/24/2020

ASSIGNOR:
ZHANG, YANJIE

DOC DATE: 03/24/2020

ASSIGNOR:
SUN, DONGXUE

DOC DATE: 03/24/2020

ASSIGNEE:
BEIJING BOE DISPLAY TECHNOLOGY CO.,
LTD.
NO. 118 JINGHAIYILU, BDA
BEIJING, CHINA 100176

ASSIGNOR:
LU, Yongquan 03/24/2020

ASSIGNEE:
BOE TECHNOLOGY GROUP CO., LTD.
NO. 10 JIUXIANQIAO RD., CHAOYANG
DISTRICT
BEIJING, CHINA 100015

APPLICATION NUMBER: 16758026

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: HEART SOUND MONITORING DEVICE AND METHOD FOR ACQUIRING HEART
SOUND SIGNAL

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

**COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR
DESIGN APPLICATION USING AN APPLICATION DATA SHEET
(37 CFR 1.76) AND ASSIGNMENT**

Title of Invention	HEART SOUND MONITORING DEVICE AND METHOD FOR ACQUIRING HEART SOUND SIGNAL
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 number <u>16/758,026</u> filed on <u>April 21, 2020</u>
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 Beijing BOE Display Technology Co., Ltd., having a place of business at No.118 Jinghaiyilu, BDA, Beijing, 100176, P.R. China, and BOE TECHNOLOGY GROUP CO., LTD., having a place of business at No.10 Jiusiangciao 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/CN2019/114647 filed on Oct.31,2019; which in turn claims priority to CN201910001236.X filed on Jan.02,2019; 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;

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 **McCoy Russell LLP Intellectual Property 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: <u>Xuru ZHANG</u>	Date: <u>Mar. 24, 2020</u>
Signature: <u>Xuru ZHANG</u>	

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LEGAL NAME OF INVENTOR	
Inventor: <u>Qian WANG</u>	Date: <u>Mar. 24, 2020</u>
Signature: <u>Qian WANG</u>	

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LEGAL NAME OF INVENTOR	
Inventor: <u>Duo ZHANG</u>	Date: <u>Mar. 29, 2020</u>
Signature: <u>Duo ZHANG</u>	

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LEGAL NAME OF INVENTOR	
Inventor: <u>Yinghao ZHANG</u>	Date: <u>Mar. 15, 2020</u>
Signature: <u>Yinghao ZHANG</u>	

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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.

LEGAL NAME OF INVENTOR	
Inventor: <u>Weimeng ZHANG</u>	Date: <u>Mar. 24, 2020</u>
Signature: <u>Weimeng ZHANG</u>	

**COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR
DESIGN APPLICATION USING AN APPLICATION DATA SHEET
(37 CFR 1.76) AND ASSIGNMENT**

Title of Invention	HEART SOUND MONITORING DEVICE AND METHOD FOR ACQUIRING HEART SOUND SIGNAL
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 number <u>16/758,026</u> filed on <u>April 21, 2020</u>
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 Beijing BOE Display Technology Co., Ltd., having a place of business at No.118 Jinghaiyilu, BDA, Beijing, 100176, P.R. China, and BOE TECHNOLOGY GROUP CO., LTD., having a place of business at No.10 Jiusiangciao 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/CN2019/114647 filed on Oct.31,2019; which in turn claims priority to CN201910001236.X filed on Jan.02,2019; 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;

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 **McCoy Russell LLP Intellectual Property 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: <u>Feng JIANG</u>	Date: <u>Mar. 24, 2020</u>
Signature: <u>Feng JIANG</u>	

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LEGAL NAME OF INVENTOR	
Inventor: <u>Yanjie ZHANG</u>	Date: <u>Mar. 24, 2020</u>
Signature: <u>Yanjie Zhang</u>	

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LEGAL NAME OF INVENTOR	
Inventor: <u>Dongxue SUN</u>	Date: <u>Mar. 24, 2020</u>
Signature: <u>Dongxue SUN</u>	

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LEGAL NAME OF INVENTOR	
Inventor: <u>Yongquan LU</u>	Date: <u>Mar. 24, 2020</u>
Signature: <u>Yongquan LU</u>	