

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5376050

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| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the SPELLING OF THE LAST INVENTOR FROM "LU, PENCHENG" TO "LU, PENGCHENG" previously recorded on Reel 043422 Frame 0098. Assignor(s) hereby confirms the ASSIGNMENT. |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MING YANG | 02/01/2016 |
| XUE DONG | 02/01/2016 |
| XIAOCHUAN CHEN | 02/01/2016 |
| RUI XU | 02/01/2016 |
| LEI WANG | 02/01/2016 |
| QIAN WANG | 02/01/2016 |
| PENG LIU | 02/01/2016 |
| PENGCHENG LU | 02/01/2016 |
| 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: | BEIJING BOE OPTOELECTRONICS TECHNOLOGY CO., LTD. |
| Street Address: | NO. 8 XIHUANZHONGLU |
| Internal Address: | BDA |
| City: | BEIJING |
| State/Country: | CHINA |
| Postal Code: | 100176 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15687877 |
| CORRESPONDENCE DATA | |
| Fax Number: | (248)341-1328 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent</i> | |
| PATENT | |

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 248-641-1600
Email: jduncan@hdp.com
Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C.
Address Line 1: P.O. BOX 828
Address Line 4: BLOOMFIELD HILLS, MICHIGAN 48303

| | |
|--------------------------------|--------------------|
| ATTORNEY DOCKET NUMBER: | 9294-000349-US-COA |
|--------------------------------|--------------------|

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| NAME OF SUBMITTER: | JUANITA DUNCAN |
|---------------------------|----------------|

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| SIGNATURE: | /Juanita Duncan/ |
|-------------------|------------------|

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| DATE SIGNED: | 02/14/2019 |
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Total Attachments: 21

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

Stylesheet Version v1.2

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | | | | | | | |
|--|--|--|------------------------|-----------------------|--------------------------|-------------------|----------------|------------|-----------------------|------------|---------------------|------------|-----------|------------|----------|------------|-------------|------------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | | | | | | | |
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| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>MING YANG</td><td>02/01/2016</td></tr><tr><td>XUE DONG</td><td>02/01/2016</td></tr><tr><td>XIAOCHUAN CHEN</td><td>02/01/2016</td></tr><tr><td>RUI XU</td><td>02/01/2016</td></tr><tr><td>LEI WANG</td><td>02/01/2016</td></tr><tr><td>QIAN WANG</td><td>02/01/2016</td></tr><tr><td>PENG LIU</td><td>02/01/2016</td></tr><tr><td>PENCHENG LU</td><td>02/01/2016</td></tr></tbody></table> | Name | Execution Date | MING YANG | 02/01/2016 | XUE DONG | 02/01/2016 | XIAOCHUAN CHEN | 02/01/2016 | RUI XU | 02/01/2016 | LEI WANG | 02/01/2016 | QIAN WANG | 02/01/2016 | PENG LIU | 02/01/2016 | PENCHENG LU | 02/01/2016 | |
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| State/Country: | CHINA |
| Postal Code: | 100176 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 15687877 |

CORRESPONDENCE DATA

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Phone: 248-641-1600
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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.
Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C.
Address Line 1: P.O. BOX 828
Address Line 4: BLOOMFIELD HILLS, MICHIGAN 48303

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| ATTORNEY DOCKET NUMBER: | 9294-000349-US-COA |
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|---------------------------|----------------|
| NAME OF SUBMITTER: | JUANITA DUNCAN |
|---------------------------|----------------|

| | |
|-------------------|------------------|
| Signature: | /Juanita Duncan/ |
|-------------------|------------------|

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| Date: | 08/28/2017 |
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Total Attachments: 16

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| EPAS ID: | PAT4568706 |
| Receipt Date: | 08/28/2017 |

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UNITED STATES PATENT AND TRADEMARK OFFICE

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

AUGUST 29, 2017

PTAS

HARNESS, DICKEY & PIERCE, P.L.C.
P.O. BOX 828
BLOOMFIELD HILLS, MI 48303

504522000

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

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RECORDATION DATE: 08/28/2017

REEL/FRAME: 043422/0098
NUMBER OF PAGES: 18

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

DOCKET NUMBER: 9294-000349-US-COA

ASSIGNOR:
YANG, MING

DOC DATE: 02/01/2016

ASSIGNOR:
DONG, XUE

DOC DATE: 02/01/2016

ASSIGNOR:
CHEN, XIAOCHUAN

DOC DATE: 02/01/2016

ASSIGNOR:
XU, RUI

DOC DATE: 02/01/2016

ASSIGNOR:
WANG, LEI

DOC DATE: 02/01/2016

ASSIGNOR:
WANG, QIAN

DOC DATE: 02/01/2016

ASSIGNOR:
LIU, PENG

DOC DATE: 02/01/2016

ASSIGNOR:
LU, PENCHENG

DOC DATE: 02/01/2016

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

ASSIGNEE:
BEIJING BOE OPTOELECTRONICS
TECHNOLOGY CO., LTD.
NO.8 XIHUANZHONGLU
BDA
BEIJING, CHINA 100176

APPLICATION NUMBER: 15687877

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: DISPLAY PANEL, DRIVING METHOD FOR DISPLAY PANEL, AND DISPLAY
DEVICE

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 | DISPLAY PANEL, DRIVING METHOD FOR DISPLAY PANEL, AND DISPLAY DEVICE |
| <p>As a below named inventor, I hereby declare that:</p> <p>This declaration</p> <p>is directed to: <input type="checkbox"/> The attached application, or</p> <p style="padding-left: 100px;"><input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/CN2015/090076</u> filed on <u>September 21, 2015</u>.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> | |

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 Jiuxiangqiao Rd., Chaoyang District, Beijing 100015, China, and BEIJING BOE OPTOELECTRONICS TECHNOLOGY CO., LTD., having a place of business at No.8 Xihuanzhonglu, BDA, Beijing 100176, 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 CN 201510163660.6 filed on April 8, 2015; which in turn claims priority to _____ filed on _____; 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 **Harness, Dickey & Pierce, P.L.C** 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>Ming YANG</u> | Date: <u>Feb. 1, 2016</u> |
| Signature: <u>Ming YANG</u> | |

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| LEGAL NAME OF INVENTOR | |
| Inventor: <u>Xue DONG</u> | Date: <u>Feb. 1, 2016</u> |
| Signature: <u>Xue DONG</u> | |

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| | |
|----------------------------------|---------------------------|
| LEGAL NAME OF INVENTOR | |
| Inventor: <u>Xiaochuan CHEN</u> | Date: <u>Feb. 1, 2016</u> |
| Signature: <u>Xiaochuan CHEN</u> | |

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| <p>As a below named inventor, I hereby declare that:</p> <p>This declaration</p> <p>is directed to: <input type="checkbox"/> The attached application, or</p> <p style="padding-left: 100px;"><input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/CN2015/090076</u> filed on <u>September 21, 2015</u>.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>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.</p> | |

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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 **Harness, Dickey & Pierce, P.L.C** 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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STATEMENTS

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|--------------------------|---------------------------|
| LEGAL NAME OF INVENTOR | |
| Inventor: <u>Rui XU</u> | Date: <u>Feb. 1, 2016</u> |
| Signature: <u>Rui XU</u> | |

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

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| LEGAL NAME OF INVENTOR | |
| Inventor: <u>Lei WANG</u> | Date: <u>Feb. 1, 2016</u> |
| Signature: <u>Lei WANG</u> | |

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| LEGAL NAME OF INVENTOR | |
| Inventor: <u>Qian WANG</u> | Date: <u>Feb. 1, 2016</u> |
| Signature: <u>Qian WANG</u> | |

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| LEGAL NAME OF INVENTOR | |
| Inventor: <u>Peng LIU</u> | Date: <u>Feb. 1, 2016</u> |
| Signature: <u>Peng LIU</u> | |

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