

## PATENT ASSIGNMENT COVER SHEET

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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                              |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                                  |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                             |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                       |
| RENYUAN ZHU                                                                                                                                                                                     | 03/22/2018                                  |
| YUE LI                                                                                                                                                                                          | 03/22/2018                                  |
| DONGXU XIANG                                                                                                                                                                                    | 03/22/2018                                  |
| YANA GAO                                                                                                                                                                                        | 03/22/2018                                  |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                             |
| <b>Name:</b>                                                                                                                                                                                    | SHANGHAI TIANMA AM-OLED CO., LTD.           |
| <b>Street Address:</b>                                                                                                                                                                          | ROOM 509, BUILDING 1, NO. 6111 LONGDONG RD. |
| <b>Internal Address:</b>                                                                                                                                                                        | PUDONG DIST.                                |
| <b>City:</b>                                                                                                                                                                                    | SHANGHAI                                    |
| <b>State/Country:</b>                                                                                                                                                                           | CHINA                                       |
| <b>Postal Code:</b>                                                                                                                                                                             | 201201                                      |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                             |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                               |
| Application Number:                                                                                                                                                                             | 15944465                                    |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                             |
| <b>Fax Number:</b>                                                                                                                                                                              | (650)838-2001                               |
| <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> |                                             |
| <b>Phone:</b>                                                                                                                                                                                   | 6508382000                                  |
| <b>Email:</b>                                                                                                                                                                                   | patent-mail@alston.com                      |
| <b>Correspondent Name:</b>                                                                                                                                                                      | ALSTON & BIRD LLP                           |
| <b>Address Line 1:</b>                                                                                                                                                                          | 100 SOUTH TRYON STREET                      |
| <b>Address Line 2:</b>                                                                                                                                                                          | BANK OF AMERICA PLAZA, SUITE 4000           |
| <b>Address Line 4:</b>                                                                                                                                                                          | CHARLOTTE, NORTH CAROLINA 28280-4000        |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 061706-512656 (043500US)                    |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | EMILY Y. SHU                                |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Emily Y. Shu/                              |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 04/09/2018                                  |
| <b>Total Attachments: 2</b>                                                                                                                                                                     |                                             |

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**ASSIGNMENT**

WHEREAS ZHU, Renyuan a citizen of the People's Republic of China, residing at Shanghai, P.R. China; LI, Yue, a citizen of the People's Republic of China, residing at Shanghai, P.R. China XIANG, Dongxu, a citizen of the People's Republic of China and GAO, Yana, a citizen of the People's Republic of China, residing at Shanghai, P.R. China, hereinafter referred to as "Assignors," are inventors of the invention described and set forth in the below-identified patent application(s):

Title of Invention: **ARRAY SUBSTRATE, ORGANIC LIGHT EMITTING DISPLAY  
PANEL AND ORGANIC LIGHT EMITTING DISPLAY DEVICE**

U.S. Application No.: 15/944,465

Filing Date: April 3, 2018

WHEREAS, Shanghai Tianma AM-OLED Co., Ltd., a corporation incorporated under and pursuant to the laws of P.R. China, and having its principal place of business at Room 509, Building 1, No. 6111 Longdong Rd., Pudong Dist., Shanghai 201201, China, hereinafter referred to as "Assignee," are desirous of acquiring all of Assignor's right, title, and interest in and to said invention, the right to file applications on said invention, and the right, title and interest in and to any applications, including provisional applications, for Letters Patent of the United States or other countries claiming priority to said applications, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefore and thereon;

NOW, THEREFORE, for good and valuable consideration, receipt of which are hereby acknowledged by Assignors, Assignors have assigned, transferred and set over, and by these presents do assign, transfer and set over unto Assignee, and Assignee's successors, legal representatives, and assigns, all of Assignors' right, title and interest in and to the above-mentioned invention and application, the right to file applications on said invention, and the right, title and interest in and to any such applications, including provisional applications, and any applications claiming priority from said applications for Letters Patent of the United States or other countries (including patent, utility model and industrial designs), and in and to any Letters Patent or Patents of the United States of America and all foreign countries that have been or may be granted therefor and thereon, and in and to any and all divisions, renewals, substitutions, conversions, continuations, and continuations-in-part of said applications, and reissues, prolongations and extensions of said Letters Patent or Patents, and all rights under the Paris Convention for the Protection of Industrial Property, including the right to claim priority, the same to be held and enjoyed by Assignee, for its own use and behalf and the use and behalf of Assignee's successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignors had this Assignment not been made;

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives, and assigns, that Assignors shall, whenever counsel of Assignee, or the counsel of its successors, legal representatives, and assigns, advises

that any proceeding in connection with said invention or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said invention in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, continuation-in-part, substitution or conversion of any applications for Letters Patent or Patents, or any reissue, prolongation or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent or Patents for said invention, without charge to Assignee, its successors, legal representatives, and assigns, but at the cost and expense of Assignee, its successors, legal representatives, and assigns;

AND Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent or Patents of the United States to Assignee as the Assignee of said invention and the Letters Patent or Patents issued and to be issued thereon for the use and behalf of Assignee, its successors, legal representatives, and assigns;

AND the undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment the application number and filing date and any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

2018.3.22  
Date

ZHU, Renyuan  
ZHU, Renyuan

2018.3.22  
Date

LI, Yue  
LI, Yue

2018.3.22  
Date

XIANG, Dongxu  
XIANG, Dongxu

2018.3.22  
Date

GAO, Yana  
GAO, Yana