503804917 04/28/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3851564

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------|----------------|
| HUIJUN JIN | 04/19/2016 |

RECEIVING PARTY DATA

| SHANGHAI AVIC OPTO ELECTRONICS CO., LTD. | |
|--|--|
| 3388TH HUANING RD, MINHANG DISTRICT | |
| SHANGHAI | |
| CHINA | |
| 201108 | |
| TIANMA MICRO-ELECTRONICS CO., LTD. | |
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| 22/F, HANGDU BUILDING, SHENNAN ROAD, FUTIAN DISTRICT | |
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| 22/F, HANGDU BUILDING, SHENNAN ROAD, FUTIAN DISTRICT | |
| | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15141796 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 101135-1007189 (000500US) |
|-------------------------|---------------------------|
| NAME OF SUBMITTER: | CHARLES W. GRAY |
| SIGNATURE: | /Charles W. Gray/ |
| DATE SIGNED: | 04/28/2016 |

PATENT REEL: 038415 FRAME: 0569 **Total Attachments: 1**

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PATENT REEL: 038415 FRAME: 0570

Attorney Docket No.: 101135-1007189 (000500US)

ASSIGNMENT OF NON-PROVISIONAL PATENT APPLICATION

JOINT

WHEREAS, Huijun Jin, residing at 3388th Huaning Rd, Minhang District, Shanghai 201108, China, hereinafter referred to as "Assignor," is the inventor of the invention described and set forth in the below-identified non-provisional patent application:

Title of Invention:

ARRAY SUBSTRATE, TOUCH DISPLAY PANEL AND

TOUCH DISPLAY DEVICE

Application No.:

15/141,796

Filing Date:

April 28, 2016

WHEREAS, Shanghai AVIC OPTO Electronics Co., Ltd., located 3388th Huaning Rd, Minhang District, Shanghai 201108, China, and Tianma Micro-Electronics Co., Ltd., located 22/F, Hangdu Building, Shennan Road, Futian District, Shenzhen 518052, China, hereinafter referred to as "ASSIGNEE," are desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on any patent application claiming priority from the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor had signed his name on the dates indicated.

Dated: 2016, 4.19 **全型**後

Huijun Jin

PATENT REEL: 038415 FRAME: 0571

RECORDED: 04/28/2016