

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BAOLING LIU	07/24/2017
LINGXIAO DU	07/24/2017
QIJUN YAO	07/24/2017
JUN MA	07/24/2017
RECEIVING PARTY DATA	
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Street Address:	889 HUIQING RD., PUDONG NEW DISTRICT
City:	SHANGHAI
State/Country:	CHINA
Postal Code:	201201
Name:	TIANMA MICRO-ELECTRONICS CO., LTD.
Street Address:	22/F, HANGDU BUILDING, SHENNAN ROAD, FUTIAN DISTRICT
City:	SHENZHEN
State/Country:	CHINA
Postal Code:	518052
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15665440
CORRESPONDENCE DATA	
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<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>	
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ATTORNEY DOCKET NUMBER:	096902-1055935 (000740US)

NAME OF SUBMITTER:	CHARLES W. GRAY
SIGNATURE:	/Charles W. Gray/
DATE SIGNED:	08/01/2017
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

ASSIGNMENT
(Patent Application)

We [I], the undersigned, have invented certain inventions and improvements disclosed in a utility (provisional or non-provisional) or design patent application entitled

**ARRAY SUBSTRATE, COLOR FILTER SUBSTRATE, TOUCH CONTROL
DISPLAY DEVICE AND METHOD FOR DRIVING THE SAME**

the specification of which is provided with this Assignment and identified by the Attorney Docket No. above. (Serial No. 15/665,440 filed on August 1, 2017)

For one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which we [I] acknowledge, we [I]:

1. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to SHANGHAI TIANMA MICRO-ELECTRONICS CO., LTD., a corporation of China having a principal place of business at 889 Huiqing Rd., Pudong New District, Shanghai 201201, China; TIANMA MICRO-ELECTRONICS CO., LTD., a corporation of China having a principal place of business at 22/F, Hangdu Building, Shennan Road, Futian District, Shenzhen, Guangdong 518052 China, ("Assignee"), the entire right, title, and interest in and to:
 - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
 - (b) the above-referenced patent application, the right to claim priority to the above-referenced patent application, all applications based in whole or in part upon the above-referenced patent application, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application;
 - (c) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued

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upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or claim intellectual property described in (a) of this paragraph, in whole or in part; and

(d) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.

2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.
3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us [me], as well as our [my] heirs, legal representatives, and assigns.
5. Promise and affirm that we [I] have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
6. Authorize Kilpatrick Townsend & Stockton to insert above the attorneydocket number as well as the application number and filing date of the above-described patent application when known.

Signed on the dates indicated beside our [my] signatures [signature].

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Attorney Docket No. _____
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Signature: Liu Baoling
LIU, Baoling

Date: 2017-7-24

Signature: DU, Lingxiao
DU, Lingxiao

Date: 2017-7-24

Signature: YAO, Qijun
YAO, Qijun

Date: 2017-7-24

Signature: MA Jun
MA, Jun

Date: 2017-7-24