

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2992109

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BO LIU	08/19/2014
JIONGLIANG FU	08/19/2014
SHOUFU JIAN	08/19/2014
ZHIQIANG XIA	08/19/2014
KERUI XI	08/19/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SHANGHAI AVIC OPTO ELECTRONICS CO., LTD.
<b>Street Address:</b>	3388TH HUANING ROAD
<b>Internal Address:</b>	MINHANG DISTRICT
<b>City:</b>	SHANGHAI
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	201108
<b>Name:</b>	TIANMA MICRO-ELECTRONICS CO., LTD.
<b>Street Address:</b>	22/F, HANGDU BUILDING, SHENNAN ROAD
<b>Internal Address:</b>	FUTIAN DISTRICT
<b>City:</b>	SHENZHEN
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	518052
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14465737
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(650)326-2422
<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>	650-326-2400
<b>Email:</b>	mtejera@kilpatricktownsend.com
<b>Correspondent Name:</b>	KILPATRICK TOWNSEND & STOCKTON LLP
<b>Address Line 1:</b>	TWO EMBARCADERO CENTER
<b>Address Line 2:</b>	EIGHTH FLOOR
<b>Address Line 4:</b>	SAN FRANCISCO, CALIFORNIA 94111
<b>502945511</b>	<b>PATENT REEL: 033586 FRAME: 0360</b>

<b>ATTORNEY DOCKET NUMBER:</b>	94765-016100US-915297
<b>NAME OF SUBMITTER:</b>	ARDESHIR TABIBI
<b>SIGNATURE:</b>	/ARDESHIR TABIBI/
<b>DATE SIGNED:</b>	08/21/2014
<b>Total Attachments: 3</b> source=2014_08_21_ASSGN_94765_016100US_915297#page1.tif source=2014_08_21_ASSGN_94765_016100US_915297#page2.tif source=2014_08_21_ASSGN_94765_016100US_915297#page3.tif	

**ASSIGNMENT**  
(Patent Application)

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

**PIXEL STRUCTURE, DISPLAY PANEL, DISPLAY DEVICE AND METHOD OF FABRICATING THE PIXEL STRUCTURE**

the specification of which is provided with this Assignment and identified by the Attorney Docket No. above. (Serial No. 14/465,737 filed on August 21, 2014 )

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 AVIC OPTOELECTRONICS CO.LTD., a corporation of China having a principal place of business at 3388th Huaning Rd, Minhang District, Shanghai, 201108, China , and 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 ("Assignees"), 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

ASSIGNMENT

Attorney Docket No. 94765-016100US-915297

Page 2 of 3

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]

ASSIGNMENT

Attorney Docket No. 94765-016100US-915297

Page 3 of 3

Signature: 刘波  
LIU, Bo

Date: 2014.8.19

Signature: 傅炯强  
FU, Jiongliang

Date: 2014.8.19

Signature: 简宇甫  
JIAN, Shoufu

Date: 2014.8.19

Signature: 夏志强  
XIA, Zhiqiang

Date: 2014.8.19

Signature: 席克瑞  
XI, Kerui

Date: 2014.8.19