

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YEN-HUEI CHEN	08/10/2012
HUNG-JEN LIAO	09/07/2012
JONATHAN TSUNG-YUNG CHANG	09/06/2012
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14218001
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<b>DATE SIGNED:</b>	03/18/2014
<b>Total Attachments: 5</b>	
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TSMC Docket No. TSMC2012-0219

U.S. Patent Appln. No.

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Filing Date:

**PATENT ASSIGNMENT**

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**AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled  
"PRE-COLORED METHODOLOGY OF MULTIPLE PATTERNING" for which:

a non-provisional application for United States Letters Patent:

was executed on even date preparatory to filing (each inventor should sign this  
Assignment on the same day as he/she signs the Declaration and Power of  
Attorney); or

was filed on \_\_\_\_\_ and accorded U.S. Serial No. \_\_\_\_\_; or

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will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes and requests ASSIGNEE'S legal representatives, the attorneys associated with Customer No. \_\_\_\_\_, to insert below in this document this APPLICATION's U.S. Serial Number and filing date, when known:

U.S. Serial No. \_\_\_\_\_,

filed on \_\_\_\_\_.

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all

TSMC Docket No. TSMC2012-0219

U.S. Patent Appl. No.

Docket No. TSMCP146US

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letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

2012/8/10

Date

Yen-Huei Chen

Name 1<sup>st</sup> Inventor Yen-Huei Chen

TSMC Docket No. TSMC2012-0219

Docket No. TSMCP146US

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9/7/2012  
Date

Hung-Jen Liao  
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9/6/2012  
Date

  
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