502726703 03/18/2014

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE: ASSIGNMENT

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CONVEYING PARTY DATA

Name	Execution Date
YEN-HUEI CHEN	08/10/2012
HUNG-JEN LIAO	09/07/2012
JONATHAN TSUNG-YUNG CHANG	09/06/2012

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14218001

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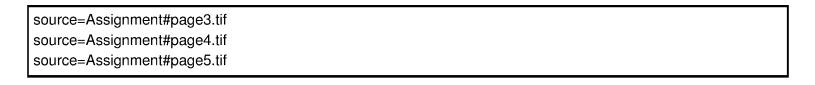
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DATE SIGNED:	03/18/2014

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PATENT 502726703 REEL: 032464 FRAME: 0357



PATENT REEL: 032464 FRAME: 0358 U.S. Patent Appln. No. Filing Date:

PATENT ASSIGNMENT

PARTIES TO THE 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:

\boxtimes	was executed on even date preparatory to filing (each inventor should sign the	is
•	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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TSMC Docket No. TSMC2012-0219

Docket No. TSMCP146US

U.S. Patent Appln. No. Filing Date:

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

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TSMC Docket No. TSMC2012-0219

Docket No. TSMCP146US

U.S. Patent Appin. No.

Filing Date:

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

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TSMC Docket No. TSMC2012-0219
Docket No. TSMCP146US

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Filing Date:

Date

Hunfjewan

Name 2nd Inventor Hung-Jen Liao

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Name 3rd Inventor Jonathan Tsung-Yung Chang

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