

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Chidambaram G. Kallingal</td> <td>06/28/2013</td> </tr> <tr> <td>YuYang Sun</td> <td>06/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	Chidambaram G. Kallingal	06/28/2013	YuYang Sun	06/28/2013
Name	Execution Date						
Chidambaram G. Kallingal	06/28/2013						
YuYang Sun	06/28/2013						
RECEIVING PARTY DATA							
Name:	GLOBALFOUNDRIES Inc.						
Street Address:	Maples Corporate Services Limited						
Internal Address:	PO Box 309, Uglan House						
City:	Grand Cayman						
State/Country:	CAYMAN ISLANDS						
Postal Code:	KY1-1104						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13936680</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13936680		
Property Type	Number						
Application Number:	13936680						
CORRESPONDENCE DATA							
Fax Number:	7139347011						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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Correspondent Name:	J. Mike Amerson						
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ATTORNEY DOCKET NUMBER:	2162.229200						
NAME OF SUBMITTER:	J. Mike Amerson						
Signature:	/J. Mike Amerson/						
Date:	07/08/2013						

CH \$40.00 13936680

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

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**COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN
APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

**Title of
Invention**

METHODS INVOLVING COLOR-AWARE RETARGETING OF INDIVIDUAL DECOMPOSED PATTERNS WHEN DESIGNING MASKS TO BE USED IN MULTIPLE PATTERNING PROCESSES

DECLARATION

As the below named inventor, I hereby declare that:

This declaration
is directed to:



The attached application, or



United States application or PCT international application number _____ filed on

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56.

ASSIGNMENT

For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO Box 309, Uglan House, Grand Cayman KY1-1104 its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the United States and all foreign countries, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions.

If any portion of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof shall nevertheless remain in full force and effect.

LEGAL NAME OF INVENTOR

Inventor: YUYANG SUN

Date: 6/28/2013

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional form for each additional inventor.