PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4981389

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAOHAN WANG	05/21/2018
JIEHUI SHU	05/21/2018
BRENDAN O'BRIEN	05/21/2018
TERRY A. SPOONER	05/22/2018
JINPING LIU	05/21/2018
RAVI PRAKASH SRIVASTAVA	05/21/2018

RECEIVING PARTY DATA

Name:	GLOBALFOUNDRIES INC.
Street Address:	PO BOX 309
Internal Address:	UGLAND HOUSE
City:	GRAND CAYMAN
State/Country:	CAYMAN ISLANDS
Postal Code:	KY1-1104

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15991529

CORRESPONDENCE DATA

Fax Number: (937)443-6635

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.

Phone: 937-443-6600

Email: ipdocket@thompsonhine.com

THOMPSON HINE LLP **Correspondent Name:**

10050 INNOVATION DRIVE Address Line 1:

Address Line 2: SUITE 400

Address Line 4: DAYTON, OHIO 45342-4934

ATTORNEY DOCKET NUMBER:	KMLT011-US-NP
NAME OF SUBMITTER:	WILLIAM R. ALLEN
SIGNATURE:	/William R. Allen/
DATE SIGNED:	05/29/2018

Total Attachments: 6 source=KMLT011-US-NP_DEC#page1.tif source=KMLT011-US-NP_DEC#page2.tif source=KMLT011-US-NP_DEC#page3.tif source=KMLT011-US-NP_DEC#page4.tif source=KMLT011-US-NP_DEC#page5.tif source=KMLT011-US-NP_DEC#page6.tif

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	SELF-ALIGNED MULTIPLE PATTERNING PROCESSES USING BI-LAYER MANDRELS AND CUTS FORMED WITH BLOCK MASKS		
	DECLARATION		
As the below	named inventor, I hereby declare that:		
This declaration is directed to: United States application or PCT international application number filed on			
The above-id	entified 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.		
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by sonment 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, Ugland 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 NA	ME OF INVENTOR		
Inventor:	ME OF INVENTOR Xiaohan Wang Date: 5/21/2018		
Sígnature:	Niashan Was.		
	ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. nal form for each additional inventor.		

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LEGAL NAM Inventor: Signature:	Date: 5/21/2018	
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Shan never energy remain in run force and energy			
LEGAL NA	ME OF INVENTOR 5 7 1 (of		
Inventor:	ME OF INVENTOR Brendan O'Brien Date: 5-21-18		
Signature			
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LEGAL NAI Inventor: Signature	ME OF INVENTOR Terry A. Spooner Date: 5/22/18	
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LEGAL NAM Inventor: Signature:	Jinping Liu Date: 5/21/18
Vote: An annlic	eation data sheet (PTO/SR/14 or equivalent), including naming the entire inventive entity, must accompany this form.

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LEGAL NA	ME OF INVENTOR Ravi Prakash Srivastava Date: 05/21/20(8
Signature	" Opivar lam
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PATENT REEL: 045923 FRAME: 0745

RECORDED: 05/29/2018