#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3874741

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JOHN ZHANG	05/05/2016
LAWRENCE CLEVENGER	05/13/2016
KANGGUO CHENG	05/13/2016
BALASUBRAMANIAN HARAN	05/16/2016

#### **RECEIVING PARTY DATA**

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

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15155761

#### **CORRESPONDENCE DATA**

**Fax Number:** (518)452-5579

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:** 518 452 5600

Email: EKS@HRFMLAW.COM

Correspondent Name: HESLIN ROTHENBERG FARLEY & MESITI/ GLOBA

Address Line 1: 5 COLUMBIA CIRCLE

Address Line 4: ALBANY, NEW YORK 12203

ATTORNEY DOCKET NUMBER:	3718.331/HALB068
NAME OF SUBMITTER:	CAROLINE B. AHN
SIGNATURE:	/Caroline B. Ahn/
DATE SIGNED:	05/16/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4** 

PATENT REEL: 038606 FRAME: 0835

503828092



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

Title of	1			
Invention	SELF-	DEVICES AND ME	THODS OF FORMING RM NANO SHEET SPAC	
				CERS
As the below	named inventor, I hereby de	DECLARATIO	ON	
	The state of the state of the	ciare mat.		
This declaration is directed to:	on The attached a	application, or		
	United States	application or PCT intern	national application number	filed on
The above-ide	ntified application was made	e or authorized to be made	e by me.	
I believe that I	am the original inventor or a	an original joint inventor	of a claimed invention in the a	pplication.
I hereby ackno- fine or imprisor	wledge that any willful false nment of not more than five	statement made in this do	eclaration is punishable under	18 U.S.C. 1001 by
I have reviewed Trademark Offi	I and understand the contentsice all information known to	s of the application and a me to be material to pate	m aware of the duty to disclose entability as defined in 37 CFR	e to the US Patent and § 1.56.
		ASSIGNMENT		
Grand Cayman the invention lis any foreign cour extensions there and Applications including but no proceedings as n	gn, transfer, to GLOBALFO KY1-1104 its successors and ted above, together with the ntries, and any reissues, re-ex of that may be issued or grar s, for the United States and a t limited to the priority right:	DUNDRIES Inc. having a d assigns, absolutely and Application, any and all xaminations, renewals, conted, and all right, title an all foreign countries, and as arising from said Applications of damages or other	I adequacy of which are hereby business address of PO Box 36 forever, my entire right, title at Patents that may issue in the Uportinuations, continuation-in-ped interest to the inventions cor all the rights and privileges relications, the right to recover and twise in respect of past, presential inventions.	09, Ugland House, and interest in and to dinted States and/or arts, divisionals or attained in said Patents ating thereto
If any portion o shall neverthele	of this Combined Declarations sees remain in full force and	on or Assignment is held effect.	l unenforceable, then remain	ing portions hereof
LEGAL NAME	OF INVENTOR		, , ,	1 2216
Inventor: <u>J</u>	ohn ZHANG		Date: 5/5/	12016
Signature:		7		
	The state of the s	and the second s	<del></del>	
Note: An applicational for	on data sheet (PTO/SB/14 or eq orm for each additional invento	uivalent), including naming r.	the entire inventive entity, must a	ecompany this form.

### 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	DEVICES AND METHODS OF FORMING SELF-ALIGNED, UNIFORM NANO SHEET SPACERS		
	DECLARATION		
As the below	named inventor, I hereby declare that:		
This declarati is directed to:	The attached application, or  United States application or PCT international application number filed on		
The above-ide	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.		
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by comment of not more than five (5) years, or both.		
I have review Trademark Of	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.			
Sometime to the			
LEGAL NAM	IE OF INVENTOR		
inventor:	Lawrence CLEVENGER Date: 5/17/20/6		
Signature:	- Emel Cey		
	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.		

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

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is directed to:	United States application or PCT international application number filed on		
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I believe that	I am the original inventor or an original joint inventor of a claimed invention in the application.		
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	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.		
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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.			
Inventor:	TE OF INVENTOR  Kangguo CHENG  Date: 5/13/2016		
Signature:			
	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.		

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	United States application or PCT international application number filed on	
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I have review Trademark O	ed and understand the contents of the application and am aware of the duty to disclose to the US Patent and ffice all information known to me to be material to patentability as defined in 37 CPR § 1.56.	
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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 NAI	ME OF INVENTOR  Balasubramanian HARAN  Date: 05/16/16	
Inventor:	Balasubramanian HARAN Date:	
Signature		
Note: An app	lication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must secompany this form, not form for each additional inventor.	

PATENT REEL: 038606 FRAME: 0840

**RECORDED: 05/16/2016**