PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5479441

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YANPING SHEN	04/16/2019
HAITING WANG	04/16/2019
HUI ZANG	04/16/2019
JIEHUI SHU	04/16/2019

RECEIVING PARTY DATA

Name:	ame: 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:	16386902			

CORRESPONDENCE DATA

Fax Number: (703)848-2981

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.

Email: sovando@rmsclaw.com
Correspondent Name: ANDREW M. CALDERON

Address Line 1: 7918 JONES BRANCH DRIVE, SUITE 500

Address Line 4: MCLEAN, VIRGINIA 22102

NAME OF SUBMITTER:	ANDREW M. CALDERON		
SIGNATURE:	/Andrew M. Calderon/		
DATE SIGNED:	04/17/2019		
	This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 4

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PATENT 505432641 REEL: 048913 FRAME: 0771

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PATENT REEL: 048913 FRAME: 0772

COMBINE	D DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)
Title of Invention	MIDDLE OF LINE GATE STRUCTURES
	DECLARATION
As the below	named inventor, I hereby declare that:
This declarat	1/ N
to direction	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.
I hereby acki or imprisonn	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by finement of not more than five (5) years, or both,
I have review Trademark C	red and understand the contents of the application and am aware of the duty to disclose to the US Patent and office all information known to me to be material to patentability as defined in 37 CFR § 1.56.
	ASSIGNMENT
hereby sell, and HOUSE, GR entire right, to may issue in continuation inventions or and privilege recover and the HOUSE recover and	l and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I assign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO BOX 309, UGLAND AND CAYMAN, CAYMAN ISLANDS KY1-1104 its successors and assigns, absolutely and forever, my fittle and interest in and to the invention listed above, together with the Application, any and all Patents that the United States and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the ontained in said Patents and Applications, for the United States and all foreign countries, and all the rights are relating thereto including but not limited to the priority rights arising from said Applications, the right to take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, future infringement, and the right to apply for, take and maintain patents on said inventions.
If any portionshall nevert	on of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof heless remain in full force and effect.
LEGAL NA	ME OF INVENTOR
Inventor:	Yanping SHEN Date: 04/16/20/9
Signature	
Note: An ann	dication 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.

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 MIDDLE OF LINE GATE STRUCTURES
DECLARATION
As the below named inventor, I hereby declare that:
This declaration The attached application, or is directed to:
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, UGLAND HOUSE, GRAND CAYMAN, CAYMAN ISLANDS 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: Haiting WANG Date: 416/19
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.

PATENT REEL: 048913 FRAME: 0774

COMBINI	ID DECLARATION and ASSIGNMENT (37 CFR 1.61) FOR UTILITY OR DESIGN USING AN APPLICATION DATA SHRET (37 CFR 1.76)	APPLICATION
Title of Invention	MIDDLE OF LINE GATE STRUCTURES	
	DECLARATION	
As the below	named inventor, I hereby declare that:	
This declarati	Co. C.	
	United States application or PCT international application number	illed 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 applica	tion.
I bereby acknor imprisonm	owledge that any willful false statement made in this decisration is punishable under 18 U. out of not more than five (5) years, or both.	S.C. 1001 by fine
l have review Trademark O	ed and understand the contents of the application and am aware of the duty to disclose to the filter all information known to me to be material to patentability as defined in 37 CFR § 1.3	e US Patent and is.
	ASSIGNMENT	
hereby sell, as HOUSE, CR/ entire right, ti- may issue in to continuation-linventions con- and privileges secover and is present and fur- If any portion	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby actors is ign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO BOX 309, NND CAYMAN, CAYMAN ISLANDS KY1-1104 its successors and assigns, absolutely a file and interest in and to the invention listed above, together with the Application, any and the United States and/or any foreign countries, and any relatives, re-examinations, renewals, n-parts, divisionals or extensions thereof that may be issued or granted, and all right, title a stained in said Patents and Applications, for the United States and all foreign countries, and relating thereto including but not limited to the priority rights erising from said Applications we all such proceedings as may be necessary for the recovery of damages or otherwise in return infringement, and the right to apply for, take and maintain patents on said inventions. Of this Combined Daderation or Assignment is held unenforceable, then remaining eless remain in full force and effect.	UCLAND nd forever, my sil Petente ther continuations, nd interest to the i all the rights ns, the right to sepect of past,
LEGAL NAM	SE OF INVENTOR	
Inventor:	Hai ZANG Date: 04//6/20/	2
Signature:	<u> </u>	<u></u>
Note: An applic	cution data sheet (PTV/SH/14 or equivalent), including naming the entire inventive entity, must acco at form for each additional inventor.	upany this form.

PATENT REEL: 048913 FRAME: 0775

COMBINE	D DECLAR	ATION and ASSIGN USING AN APP	NMENT (37 CFR LICATION DATA			APPLICATION
	MIDDLE	OF LINE GATE	STRUCTURES			
Title of Invention						
			DECLARATI	ON		
As the below	named inven	tor, I hereby declare th	hat:			•
This declarati	1/ N	The attached applica	ation, or			
		United States applic	ation or PCT intern	national application	on number	filed on
The above-id	entified appli	cation was made or au	thorized to be mad	e by me.		
I believe that	I am the original	inal inventor or an ori	ginal joint inventor	of a claimed inve	ention in the applic	ation.
		any willful false state ore than five (5) years,		declaration is pun	ishable under 18 U	S.C. 1001 by fine
		stand the contents of t				
			ASSIGNMEN	IT		
hereby sell, a HOUSE, GR entire right, to may issue in continuation- inventions co and privilege recover and t	ssign, transferand CAYM itle and interesthe United Stain-parts, division tained in saits relating therake all such p	e consideration, the receive, to GLOBALFOUNI AN, CAYMAN ISLA est in and to the inventiates and/or any foreign sionals or extensions that Patents and Applicate to including but not proceedings as may be sment, and the right to	DRIES Inc. having NDS KY1-1104 it ion listed above, to a countries, and an hereof that may be ations, for the United limited to the prior necessary for the 1	a business address successors and a gether with the A y reissues, re-exactissued or granted d States and all faity rights arising a ecovery of damage	assigns, absolutely pplication, any and minations, renewal, and all right, title oreign countries, ar from said Applications or otherwise in	UGLAND and forever, my l all Patents that s, continuations, and interest to the ad all the rights ons, the right to respect of past,
		mbined Declaration on in full force and effo		eld unenforceab	le, then remaining	g portions hereof
LEGAL NAM	ME OF INVE	NTOR				
Inventor:	Jiehui SHU	<u> </u>		Date:	4/16/2019	·
Signature:	3	1 1 Hz		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
		eet (PTO/SB/14 or equiv	valent), including nar	ning the entire inve	ntive entity, must acc	company this form.

PATENT REEL: 048913 FRAME: 0776

RECORDED: 04/17/2019