#### 504186395 01/19/2017

### PATENT ASSIGNMENT COVER SHEET

EPAS ID: PAT4233070 Electronic Version v1.1

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
XUSHENG WU	01/18/2017
ZIYAN XU	01/18/2017
CHENGWEN PEI	01/17/2017

#### **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:	15410032

#### **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:	3718352/IMLT078
NAME OF SUBMITTER:	STEPHEN P. SCUDERI
SIGNATURE:	/Stephen P. Scuderi/
DATE SIGNED:	01/19/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 3** source=H0797893#page1.tif

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GF Ref. No.: 3718.352/IMLT078

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

Title of	METHOD OF FORMING MANDREL AND NON-MANDREL
Invention	METAL LINES HAVING VARIABLE WIDTHS
	DECLARATION
As the below	named inventor, I hereby declare that:
	fred on the state of
This declarati	V N
is directed to:	United States application or PCT international application number filed on
	Offices and appropriate of the functional appropriate further from the off
The shove ide	entified application was made or authorized to be made by me.
THE ROOVE-IGG	entined apprication was made or authorized to be made by the.
I believe that	I am the original inventor or an original joint inventor of a claimed invention in the application.
I hereby acknowled	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by
nne or impris	onment of not more than five (5) years, or both.
I have reviewed	ed and understand the contents of the application and am aware of the duty to disclose to the US Patent and
I raucinai k O	ffice all information known to me to be material to patentability as defined in 37 CFR § 1.56.
	ASSIGNMENT
	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I
hereby sell, as	ssign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO Box 309. Ugland House,
	in KY1-1104 its successors and assigns, absolutely and forever, my entire right, title and interest in and to listed above, together with the Application, any and all Patents that may issue in the United States and/or
any foreign co	puntries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or
	ereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents
	ons, for the United States and all foreign countries, and all the rights and privileges relating thereto not limited to the priority rights arising from said Applications, the right to recover and take all such
proceedings as	s may be necessary for the recovery of damages or otherwise in respect of past, present and future
_	and the right to apply for, take and maintain patents on said inventions.
If any portion	n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof eless remain in full force and effect.
Shau beverun	eless remain in full force and effect.
LEGAL NAM	1E OF INVENTOR
Inventor:	Xusheng WU  Date: 01/18/2017
Signature:	5-7-2
_	<u> </u>
	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. al form for each additional inventor.

GF Ref. No.: 3718.352/IMLT078

## 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	METHOD OF FORMING MANDREL AND NON-MANDREL METAL LINES HAVING VARIABLE WIDTHS
	DECLARATION
As the below	named inventor, I hereby declare that:
This declarati	I/ N
is an octour 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.	
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 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.	
	on of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof
snall neverth	neless remain in full force and effect.
LEGAL NAM	ME OF INVENTOR
Inventor:	Ziyan XU Date: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Signature:	Znymoh
	Q
	lication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

GF Ref. No.: 3718.352/IMLT078

# 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	METHOD OF FORMING MANDREL AND NON-MANDREL METAL LINES HAVING VARIABLE WIDTHS
	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-iden	ntified 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 acknorine or imprisor	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by nment of not more than five (5) years, or both.
I have reviewed Trademark Offi	and understand the contents of the application and am aware of the duty to disclose to the US Patent and ce all information known to me to be material to patentability as defined in 37 CFR § 1.56.
	ASSIGNMENT
hereby sell, assi Grand Cayman the invention list any foreign count extensions there and Application including but no proceedings as r	nd valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I gn, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO Box 309, Ugland House, KY1-1104 its successors and assigns, absolutely and forever, my entire right, title and interest in and to ted above, together with the Application, any and all Patents that may issue in the United States and/or ntries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or of that may be issued or granted, and all right, title and interest to the inventions contained in said Patents s, for the United States and all foreign countries, and all the rights and privileges relating thereto t limited to the priority rights arising from said Applications, the right to recover and take all such may be necessary for the recovery of damages or otherwise in respect of past, present and future d the right to apply for, take and maintain patents on said inventions.
	f this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof ss remain in full force and effect.
	OF INVENTOR hengwen PEI  Date: 0//17/20/7
Inventor: C	Mengwen PEI Date: 01/17/17 / T
	on data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

PATENT REEL: 041017 FRAME: 0492

RECORDED: 01/19/2017