# 504275783 03/16/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4322465

		NEW ASSIGNMENT	
NATURE OF CONVEYAN	ICE:	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
QUN GAO			03/16/2017
ANTHONY CHOU			03/15/2017
STEPHEN FURKAY			03/16/2017
NAVED SIDDIQUI			03/16/2017
RECEIVING PARTY DA	ТА		
Name:	-	ALFOUNDRIES INC.	
Street Address:	PO BC	X 309	
Internal Address:	UGLA	ND HOUSE	
City:	GRAN	D CAYMAN	
State/Country:	CAYM	AN ISLANDS	
Postal Code:	KY1-1	104	
PROPERTY NUMBERS	Total: 1		
Property Type		Number	
		15460914	
Application Number:			
	AT 4		
CORRESPONDENCE D	ΑΤΑ		
CORRESPONDENCE D Fax Number:		(937)443-6635	sful, it will be sent
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CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET NU	e sent to	(937)443-6635 o the e-mail address first; if that is unsucces d; if that is unsuccessful, it will be sent via U 937-443-6600 ipdocket@thompsonhine.com THOMPSON HINE LLP 10050 INNOVATION DRIVE SUITE 400 DAYTON, OHIO 45342-4934 : IFIS051-US-NP WILLIAM R. ALLEN	

Total Attachments: 4	
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GF Ref. No.: IFIS051-US-NP

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIG	N
<b>APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)</b>	

Title of Invention	ON-CHIP RESISTORS WITH A TUNABLE TEMPERATURE COEFFICIENT OF RESISTANCE	
dan da katala da kat	DECLARATION	
As the below	named inventor, I hereby declare that:	
This declarati 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.	
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by conment of not more than five (5) years, or both.	
	red 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 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 NAM Inventor: Signature:	Date: <u>3/16/2017</u> Qun Gao Date: <u>3/16/2017</u>	
	lication 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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### PATENT REEL: 041599 FRAME: 0467

GF Ref. No.: IFIS051-US-NP

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Title of Invention	ON-CHIP RESISTORS WITH A TUNABLE TEMPERATURE COEFFICIENT OF RESISTANCE
	DECLARATION
As the below	named inventor, I hereby declare that:
This declarat	
	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 ackr fine or impris	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by onment of not more than five (5) years, or both.
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 ffice all information known to me to be material to patentability as defined in 37 CFR § 1.56.
	ASSIGNMENT
hereby sell, a Grand Caym the invention any foreign of extensions th and Applicat including but proceedings	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I ssign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO Box 309, Ugland House an KY1-1104 its successors and assigns, absolutely and forever, my entire right, title and interest in and listed above, together with the Application, any and all Patents that may issue in the United States and/o ountries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals o ereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patients, 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 as 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.
	n of this Combined Declaration or Assignment is held unenforceable, then remaining portions her neless remain in full force and effect.
	ME OF INVENTOR
LEGAL NA	$\frac{\text{Anthony Chou}}{2} \qquad \text{Date:}  \frac{3/15/2017}{2017}$

PATENT REEL: 041599 FRAME: 0468

San Andrews

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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Title of Invention	ON-CHIP RESISTORS WITH A TUNABLE TEMPERATURE COEFFICIENT OF RESISTANCE
	DECLARATION
As the below	named inventor, I hereby declare that:
This declarati 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.
110 00000 100	shifted application was made of autorized 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 ackno fine or imprise	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 reviewe Trademark Of	ed and understand the contents of the application and am aware of the duty to disclose to the US Patent and fice all information known to me to be material to patentability as defined in 37 CFR § 1.56.
	ASSIGNMENT
hereby sell, as Grand Cayman the invention 1 any foreign co extensions the and Application including but 1 proceedings as	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I sign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO Box 309, Ugland House, n 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 nuntries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or reof 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 as 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 shall neverthe	n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof eless remain in full force and effect.
	E OF INVENTOR Stephen Furkay Date: 16 March 2017
Signature:	Stypher Kuy
Note: An applic Use an addition:	ation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. al form for each additional inventor.

#### PATENT REEL: 041599 FRAME: 0469

#### 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	ON-CHIP RESISTORS WITH A TUNABLE TEMPERATURE COEFFICIENT OF RESISTANCE
	DECLARATION
As the below	named inventor, I hereby declare that:
This declarati	
	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 ackn fine or impris	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by somment of not more than five (5) years, or both.
I have review Trademark O	yed 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, a Grand Caym the invention any foreign c extensions th and Applicat including bu proceedings infringement	d 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 House, an KY1-1104 its successors and assigns, absolutely and forever, my entire right, title and interest in and to a listed above, together with the Application, any and all Patents that may issue in the United States and/or countries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or access that may be issued or granted, and all right, title and interest to the inventions contained in said Patents tions, for the United States and all foreign countries, and all the rights and privileges relating thereto t not limited to the priority rights arising from said Applications, the right to recover and take all such as may be necessary for the recovery of damages or otherwise in respect of past, present and future t, and the right to apply for, take and maintain patents on said inventions.
If any portions in the shall 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 Naved Siddiqui Date : 03/16/2017
Inventor: Signature	
	Dication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

# REEL: 041599 FRAME: 0470

PATENT

### RECORDED: 03/16/2017