### 03/12/2019 505370880

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5417672

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
VIBHOR JAIN	03/08/2019
JOAN JOSEP GINER DE HARO	03/08/2019
QIZHI LIU	03/08/2019
YOU QIAN	03/09/2019
HUMBERTO CAMPANELLA PINEDA	03/08/2019

### **RECEIVING PARTY DATA**

Name:	GLOBALFOUNDRIES SINGAPORE PTE. LTD.
Street Address:	60 WOODLANDS INDUSTRIAL PARK D
Internal Address:	STREET 2
City:	SINGAPORE
State/Country:	SINGAPORE
Postal Code:	738406

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16299860

## **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

ipdocket@thompsonhine.com Email:

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:	KSG080-US-NP
NAME OF SUBMITTER:	WILLIAM R. ALLEN
SIGNATURE:	/William R. Allen/
DATE SIGNED:	03/12/2019

# Total Attachments: 5 source=KSG080-US-NP\_Dec#page1.tif source=KSG080-US-NP\_Dec#page2.tif source=KSG080-US-NP\_Dec#page3.tif source=KSG080-US-NP\_Dec#page4.tif source=KSG080-US-NP\_Dec#page5.tif

GF Ref. No.: KSG080-US-NP COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) SENSORS BASED ON A HETEROJUNCTION BIPOLAR TRANSISTOR Title of CONSTRUCTION Invention **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 Singapore Pte. Ltd. having a business address of 60 Woodlands Industrial Park D Street 2, Singapore, 738406, 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: Vibhor Jain

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Signature:

Use an additional form for each additional inventor.

COMBINE	D DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)
Fitle of Invention	SENSORS BASED ON A HETEROJUNCTION BIPOLAR TRANSISTOR CONSTRUCTION
	DECLARATION
As the below	named inventor, I hereby declare that:
This declarat	VN
iż aneciea to	United States application or PCT international application number filed on
The above-ic	dentified application was made or authorized to be made by me.
I believe that	t I am the original inventor or an original joint inventor of a claimed invention in the application.
I hereby ack	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine nent of not more than five (5) years, or both.
I have review Trademark (	wed 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
acknowledgaddress of absolutely Application reissues, remay be is Application including be such process.	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby ged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Singapore Pte. Ltd. having a business of 60 Woodlands Industrial Park D Street 2, Singapore, 738406, its successors and assigns and forever, my entire right, title and interest in and to the invention listed above, together with the notation, any and all Patents that may issue in the United States and/or any foreign countries, and any e-examinations, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that such or granted, and all right, title and interest to the inventions contained in said Patents and notations, for the United States and all foreign countries, and all the rights and privileges relating therefore the inventions to the priority rights arising from said Applications, the right to recover and take all decings as may be necessary for the recovery of damages or otherwise in respect of past, present infringement, and the right to apply for, take and maintain patents on said inventions.
If any port shall never	tion of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof theless remain in full force and effect.
LEGAL NA	AME OF INVENTOR
Inventor	
Signatu	pplication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

COMBINE			PPLICATION	UATA SHEI	51 (37 CER	· · · · · · · · · · · · · · · · · · ·		
Title of	SENSORS CONSTR	BASED ON LUCTION	A HETEROJU	INCTION	BIPOLAR	TRANSIST	OR	
Invention								
			DECLAF	RATION				
As the belov	v named inven	tor, I hereby decla	ire that:					
This declara		The attached ap					œi - i - i -	
		United States ap	oplication or PCI	internationa	I application	number	filed on	
The above-i	identified appl	ication was made	or authorized to l	oe made by m	ie.			
						ntion in the and	lication.	
1		ginal inventor or a					255	ing pagaman
I hereby acl	knowledge tha	t any willful false ore than five (5) y	statement made i	in this declar	ation is punis	shable under 18	3 U.S.C. 1001 b	y fine
I have revis Trademark	ewed and unde Office all info	rstand the content ormation known to	ts of the application me to be materia	on and am av	vare of the di ility as defin	aty to disclose ed in 37 CFR {	to the US Pater 1.56.	nt and
			исста	NMENT				
acknowled address absolutely Application reissues, may be in Application	dged, I hereby of 60 Wood y and forever on, any and a re-examination issued or graphs, for the Louis not limit	able considerating sell, assign, to lands Industrial, my entire right all Patents that ons, renewals, canted, and all right be necessatent, and the right	Park D Street, to GLO Park D Street, title and interest may issue in the continuations, countinuations, countinuations, countinuations, countinuations, countinuations, countinuations, countinuations, for the recontinuations, and the recontinuations.	est in and to ne United Sontinuation-interest to the form said A	ore, 73840 the inventi- states and/or- n-parts, divine inventior d all the rig Applications	on listed abored and listed abored any foreign isionals or expensionals or expensional and privilents and privi	essors and a ve, together value of countries, a tensions there in said Pater eges relating recover and pect of past,	ssigns, vith the nd any eof that thereto take all
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shall neve	ertheless rem	ain in full force a	AND STREET, STATE OF STA					
	NAME OF IN				Date:	/8/20	19	
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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	SENSORS BASED ON A HETEROJUNCTION BIPOLAR TRANSISTOR CONSTRUCTION
	DECLARATION
As the below	named inventor, I hereby declare that:
This declarat	<b>VV</b>
is directed to	United States application or PCT international application number filed on
The above-ic	dentified application was made or authorized to be made by me.
I believe tha	at I am the original inventor or an original joint inventor of a claimed invention in the application.
I hereby ack	knowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine ment of not more than five (5) years, or both.
I have revie Trademark	wed 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.
<u>w</u> .	ASSIGNMENT
acknowled address of absolutely Application reissues, r may be is Application including I	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby siged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Singapore Pte. Ltd. having a business of 60 Woodlands Industrial Park D Street 2, Singapore, 738406, its successors and assigns, and forever, my entire right, title and interest in and to the invention listed above, together with the n, any and all Patents that may issue in the United States and/or any foreign countries, and any re-examinations, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that seved or granted, and all right, title and interest to the inventions contained in said Patents and ns, for the United States and all foreign countries, and all the rights and privileges relating thereto but not limited to the priority rights arising from said Applications, the right to recover and take all eedings as may be necessary for the recovery of damages or otherwise in respect of past, present infringement, and the right to apply for, take and maintain patents on said inventions.
If any port	tion of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof rtheless remain in full force and effect.
Inventor Signatu	721:40

COMBINED DECLARATION USI	and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION NG AN APPLICATION DATA SHEET (37 CFR 1.76)
Title of CONSTRUCTIO	ED ON A HETEROJUNCTION BIPOLAR TRANSISTOR ON
	DECLARATION
As the below named inventor, I her	eby declare that:
	tached application, or
is directed to:	States application or PCT international application number filed on
The above-identified application w	ras made or authorized to be made by me.
I believe that I am the original inve	entor or an original joint inventor of a claimed invention in the application.
I hereby acknowledge that any wil or imprisonment of not more than	Iful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine five (5) years, or both.
I have reviewed and understand th Trademark Office all information	e contents of the application and am aware of the duty to disclose to the US Patent and known to me to be material to patentability as defined in 37 CFR § 1.56.
	ASSIGNMENT
acknowledged, I hereby sell, a address of 60 Woodlands in absolutely and forever, my ent Application, any and all Pater reissues, re-examinations, renemay be issued or granted, at Applications, for the United Stincluding but not limited to the proceedings as may be	insideration, the receipt, sufficiency and adequacy of which are hereby ssign, transfer, to GLOBALFOUNDRIES Singapore Pte. Ltd. having a business dustrial Park D Street 2, Singapore, 738406, its successors and assigns, ire right, title and interest in and to the invention listed above, together with the last that may issue in the United States and/or any foreign countries, and any ewals, continuations, continuation-in-parts, divisionals or extensions thereof that and all right, title and interest to the inventions contained in said Patents and ates and all foreign countries, and all the rights and privileges relating thereto expriority rights arising from said Applications, the right to recover and take all necessary for the recovery of damages or otherwise in respect of past, present the right to apply for, take and maintain patents on said inventions.
If any portion of this Combined shall nevertheless remain in full	Declaration or Assignment is held unenforceable, then remaining portions hereof force and effect.
LEGAL NAME OF INVENTOR	
Inventor: Humberto Campar	nella Pineda Date: 08-Mar - 2019
Signature:	
Note: An application data sheet (PT Use an additional form for each addi	O/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

PATENT REEL: 048576 FRAME: 0244

**RECORDED: 03/12/2019**