PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4000296

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NATALIE B. FEILCHENFELD	08/04/2016
MICHAEL J. ZIERAK	08/01/2016
THEODORE J. LETAVIC	08/04/2016
YUN SHI	08/02/2016
SANTOSH SHARMA	08/02/2016

RECEIVING PARTY DATA

Name:	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:	15232873

CORRESPONDENCE DATA

Fax Number: (410)630-1656

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: 410-705-6401

GUNTHER@gibbiplaw.com Email:

GIBB & RILEY, LLC **Correspondent Name:** 844 WEST STREET Address Line 1:

Address Line 2: SUITE 200

Address Line 4: ANNAPOLIS, MARYLAND 21401

ATTORNEY DOCKET NUMBER:	BUR820150114-US-NP
NAME OF SUBMITTER:	PAMELA M. RILEY
SIGNATURE:	/PAMELA M. RILEY/
DATE SIGNED:	08/10/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

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REEL: 039391 FRAME: 0442

Total Attachments: 5

source=BUR820150114USNP_DECLARATIONASSIGNMENT_08-08-2016#page1.tif source=BUR820150114USNP_DECLARATIONASSIGNMENT_08-08-2016#page2.tif source=BUR820150114USNP_DECLARATIONASSIGNMENT_08-08-2016#page3.tif source=BUR820150114USNP_DECLARATIONASSIGNMENT_08-08-2016#page4.tif source=BUR820150114USNP_DECLARATIONASSIGNMENT_08-08-2016#page5.tif

GF Rcf. No.:BUR820150114-US-NP

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) SEMICONDUCTOR STRUCTURE WITH A DOPANT IMPLANT REGION Title of HAVING A LINEARLY GRADED CONDUCTIVITY LEVEL AND METHOD OF Invention FORMING THE STRUCTURE 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 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 Parents 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 Date: 4 August 2016 Inventor: Natalie B. Feilchenfold . Feilchenfeld Signature: Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

PATENT

REEL: 039391 FRAME: 0444

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) SEMICONDUCTOR STRUCTURE WITH A DOPANT IMPLANT REGION Title of HAVING A LINEARLY GRADED CONDUCTIVITY LEVEL AND METHOD OF Invention FORMING THE STRUCTURE 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 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 Date: 1 A U G 1 b Michael J. Zierak Inventor: 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.

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1,76) SEMICONDUCTOR STRUCTURE WITH A DOPANT IMPLANT REGION Title of HAVING A LINEARLY GRADED CONDUCTIVITY LEVEL AND METHOD OF Invention FORMING THE STRUCTURE 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. 100f 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 fisted 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 Date: <u>Q/4/2016</u> Theodore J. Letavic Inventor: Signature:

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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	SEMICONDUCTOR STRUCTURE WITH A DOPANT IMPLANT REGION HAVING A LINEARLY GRADED CONDUCTIVITY LEVEL AND METHOD OF FORMING THE STRUCTURE	
	DECLARATION	
As the below	named inventor, I hereby declare that	
This declarati	W. S. 1	
	United States application or PCT international application numberfiled 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 omnent of not more than five (5) years, or both:	
	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 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 portio shall neverth	n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof eless remain in full force and effect.	
LEGAL NAN	ME OF INVENTOR	
Inventor:	Yun Shi Date: 8/2/2016	
Signature:		
	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. tal form for each additional inventor.	

GF Ref. No.:BUR820150114-US-NP

APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) SEMICONDUCTOR STRUCTURE WITH A DOPANT IMPLANT REGION Title of HAVING A LINEARLY GRADED CONDUCTIVITY LEVEL AND METHOD OF Invention FORMING THE STRUCTURE DECLARATION As the below named inventor, I hereby declare that: This declaration The stached 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 KY1-1104 its successors and assigns, absolutely and forever, my entire right, title and inferest 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 relissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, this 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 Date: 8/2/2016 Inventor: Santosh Sharma 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.

RECORDED: 08/10/2016

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN