### 502971879 09/11/2014

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3018478

		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY DA	ΑΤΑ			
		Name		Execution Date
ANDY CHIH-HUNG WEI				09/08/2014
GUILLAUME BOUCHE				09/04/2014
HUY M. CAO				09/04/2014
JING WAN				09/05/2014
RECEIVING PARTY DA	ТА			
Name:	1	LFOUNDRIES INC.		
Street Address:	PO BC	X 309		
Internal Address:	UGLAN	ID HOUSE		
City:	GRAN	) CAYMAN		
	CAYM	AN ISLANDS		
Postal Code:	KY1-1	04		
PROPERTY NUMBERS	Total: 1			
Property Type		Number		
i operty i ype	Application Number: 1448			
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Application Number: CORRESPONDENCE D Fax Number:		(518)456-7004		uccessful it will be sent
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be	e sent to			
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p	e sent to	(518)456-7004 • <b>the e-mail address first; if t</b>		
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Application Number: 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 4: ATTORNEY DOCKET NU	e sent to provideo	(518)456-7004 <b><i>the e-mail address first; if t</i></b> <i>if that is unsuccessful, it w</i> 518-456-7084 Icronk@kdiplaw.com KEOHANE & D'ALESSANDRO 1881 WESTERN AVENUE SUITE 180 ALBANY, NEW YORK 12203	ill be sent	
Application Number: 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 4: ATTORNEY DOCKET NUNAME OF SUBMITTER:	e sent to provideo	(518)456-7004 <b>o the e-mail address first; if t</b> <b>if that is unsuccessful, it w</b> 518-456-7084 Icronk@kdiplaw.com KEOHANE & D'ALESSANDRO 1881 WESTERN AVENUE SUITE 180 ALBANY, NEW YORK 12203 EU623	ill be sent	
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**Total Attachments: 4** 

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### PATENT REEL: 033720 FRAME: 0483

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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	OPPOSITE POLARITY BORDERLESS REPLACEMENT METAL CONTACT SCHEME
As the below	v named inventor, I hereby declare that:
This declaration is directed to	
	United States application or PCT international application number
The above-ic	lentified application was made or authorized to be made by me.
I believe that application.	I am the original inventor or an original joint inventor of a claimed invention in the
I hereby ack U.S.C. 1001	nowledge that any willful false statement made in this declaration is punishable under 18 by fine or imprisonment of not more than five (5) years, or both.
I have review US Patent an 37 CFR § 1.4	ved and understand the contents of the application and am aware of the duty to disclose to the d Trademark Office all information known to me to be material to patentability as defined in 56.
	ASSIGNMENT
acknowledge PO Box 309, my entire rig and all Paten continuation- and interest t rights and pri Applications, damages or c	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby d, Thereby sell, assign, transfer, to GLOBALFOUNDRIES Inc. having a business address of Ugland House, Grand Cayman KY1-1104 its successors and assigns, absolutely and forever, ht, title and interest in and to the invention listed above, together with the Application, any ts that may issue in the United States, and any reissues, renewals, continuations, in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title o the inventions contained in said Patents and Applications, for the United States, and all the ivileges relating thereto including but not limited to the priority rights arising from said , the right to recover and take all such proceedings as may be necessary for the recovery of therwise in respect of past, present and future infringement, and the right to apply for, take patents on said inventions.
LEGAL NAM	Andy Chih-Hung Wei Date: 9/8/2014
Signature:	- CAR
	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must form. Use an additional form for each additional inventor.

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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	OPPOSITE POLARITY BORDERLESS REPLACEMENT METAL CONTACT SCHEME	

As the below named inventor, I hereby declare that;

This declaration X The attached application, or

is directed to:

Invention

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 life, 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 any reissues, 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 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.

LEGAL NAME OF INVENTOR

Inventor: Guillaume Bouche

Date: 09/4/2014

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 inve	ntor.

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GF Ref. No. EU623

## 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	OPPOSITE POLARITY BORDERLESS REPLACEMENT METAL CONTACT SCHEME
As the below	v named inventor, I hereby declare that:
This declarat	
	United States application or PCT international application number
The above-id	entified application was made or authorized to be made by me.
I believe that application.	I am the original inventor or an original joint inventor of a claimed invention in the
I hereby ackr U.S.C. 1001	nowledge that any willful false statement made in this declaration is punishable under 18 by fine or imprisonment of not more than five (5) years, or both.
I have review US Patent an 37 CFR § 1.5	red and understand the contents of the application and am aware of the duty to disclose to the d Trademark Office all information known to me to be material to patentability as defined in 6.
	ASSIGNMENT
acknowledge PO Box 309, my entire rigi and all Patent continuation- and interest to rights and pri Applications, damages or of	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby d, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Inc, having a business address of Ugland House, Grand Cayman KY1-1104 its successors and assigns, absolutely and forever, at, title and interest in and to the invention listed above, together with the Application, any s that may issue in the United States, and any reissues, renewals, continuations, in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title o the inventions contained in said Patents and Applications, for the United States, and all the vileges relating thereto including but not limited to the priority rights arising from said the right to recover and take all such proceedings as may be necessary for the recovery of therwise in respect of past, present and future infringement, and the right to apply for, take patents on said inventions.
LEGAL NAM	IE OF INVENTOR
Inventor:	Huy M. Cao Date: 9/4/2014
Signature:	Alle
Note: An applic accompany this	ation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must form. Use an additional form for each additional inventor.

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	ABINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR SIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)
Title of Invention	OPPOSITE POLARITY BORDERLESS REPLACEMENT METAL CONTACT SCHEME
As the below	v named inventor, I hereby declare that:
This declara is directed to	A CONTRACTOR AND A
	United States application or PCT international application number
The above-ic	lentified application was made or authorized to be made by me.
I believe that application.	I am the original inventor or an original joint inventor of a claimed invention in the
	nowledge that any willful false statement made in this declaration is punishable under 18 by fine or imprisonment of not more than five (5) years, or both.
	ved and understand the contents of the application and am aware of the duty to disclose to the d Trademark Office all information known to me to be material to patentability as defined in 56.
	ASSIGNMENT
acknowledge PO Box 309, my entire rig and all Paten continuation- and interest t rights and pri Applications, damages or o	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby d, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Inc. having a business address of Ugland House, Grand Cayman KY1-1104 its successors and assigns, absolutely and forever, ht, title and interest in and to the invention listed above, together with the Application, any ts that may issue in the United States, and any reissues, renewals, continuations, in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title to the inventions contained in said Patents and Applications, for the United States, and all the vileges relating thereto including but not limited to the priority rights arising from said the right to recover and take all such proceedings as may be necessary for the recovery of therwise in respect of past, present and future infringement, and the right to apply for, take patents on said inventions.
LEGAL NA	AE OF INVENTOR
Inventor: Signature:	Jing Wan Date: 0//05/2015
Note: An appli accompany this	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must form. Use an additional form for each additional inventor.

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RECORDED: 09/11/2014