PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT				
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY DATA		,		
	I	Name	Execution Date	
Xiang HU			09/16/2013	
Gabriel PADRON WELLS 09/18/2013			09/18/2013	
Jack Chao-Hsu CHANG			09/18/2013	
			09/18/2013	
Taejoon HAN			09/18/2013	
RECEIVING PARTY DATA				
Name: GLOBA		IES Inc.		
Street Address: Ugland	House			
Internal Address: P.O. Bo	P.O. Box 309			
City: Grand	Grand Cayman			
State/Country: CAYMA	CAYMAN ISLANDS			
Postal Code: KY1-11	KY1-1104			
PROPERTY NUMBERS Total:	1			
Property Type	Property Type Number			
Application Number:				
CORRESPONDENCE DATA				
CORRESPONDENCE DATA				
Fax Number: 51	84525579			
	ia US Mail v	when the fax attempt is unsuccessful.	•	
		-		
Phone: 51	8 452 5600			
Phone:51Email:jcc	8 452 5600 @hrfmlaw.co	om		
Phone:51Email:jc(Correspondent Name:He	8 452 5600 @hrfmlaw.co	om berg Farley & Mesiti PC		
Phone:51Email:jccCorrespondent Name:HeAddress Line 1:5	8 452 5600 @hrfmlaw.co eslin Rothen Columbia Ci	om berg Farley & Mesiti PC		
Phone:51Email:jccCorrespondent Name:HeAddress Line 1:5	8 452 5600 @hrfmlaw.co eslin Rothen Columbia Ci bany, NEW	om berg Farley & Mesiti PC ircle		
Phone:51Email:jccCorrespondent Name:HeAddress Line 1:5Address Line 4:Al	8 452 5600 @hrfmlaw.co eslin Rothen Columbia Ci bany, NEW	om Iberg Farley & Mesiti PC ircle YORK 12203		

Signature:	/Matthew M. Hulihan/
Date:	09/19/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 5 source=3718075_Decl-Assgn_Executed_HU#page1.tif source=3718075_Decl-Assgn_Executed_PADRON_WELLS#page1.tif source=3718075_Decl-Assgn_Executed_CHANG#page1.tif source=3718075_Decl-Assgn_Executed_WANG#page1.tif source=3718075_Decl-Assgn_Executed_HAN#page1.tif	

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

4

Title of Invention	FEATURE ETCHING USING VARYING SUPPLY OF POWER PULSES
	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-ide	entified application was made or authorized to be made by me.
I believe that	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 onment 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
hereby sell, as Grand Cayma the invention I any foreign co extensions the and Applicatio including but proceedings as	and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I asign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO Box 309, Ugland House, n KY 1-1104 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 pountries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or preof 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 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.
	n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof eless remain in full force and effect.
	Date: 09/16/13
	- Ktrast
	cation data sheet (PTO/SB/14 ve equivalent), including naming the entire inventive entity, must accompany this form. al form for each additional investor.

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	FEATURE ETCHING USING VARYING SUPPLY OF POWER PULSES
	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.
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by sonment of not more than five (5) years, or both.
l have review Trademark O	red and understand the contents of the application and am aware of the duty to disclose to the US Patent and flice all information known to me to be material to patentability as defined in 37 CFR § 1.56.
	ASSIGNMENT
hereby sell, a Grand Cayma the invention any foreign c extensions the and Applicati including but proceedings a	I 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 to listed above, together with the Application, any and all Patents that may issue in the United States and/or ountries, 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 ions, 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 hereof seless remain in full force and effect.
Inventor:	AE OF INVENTOR Gabriel PADRON WELLS Date : 09/18/29/S
	(HATTON
Signature:	NMI T

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	FEATURE ETCHING USING VARYING SUPPLY OF POWER PULSES
***************************************	DECLARATION
As the below	named inventor. I hereby declare that:
This declarati is directed to:	
The above-ide	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 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 and ffice all information known to me to be material to patentability as defined in 37 CFR § 1.56.
	ASSIGNMENT
hereby sell, as Grand Cayma the invention any foreign co extensions the and Application including but proceedings a	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, 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 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 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 shall neverth	n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof eless remain in full force and effect.
LEGAL NAM Inventor: Signature:	IE OF INVENTOR Jack Chao-Hsu CHANG Date: 09/18/2013
Note: An appli	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. al 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)

Title of Invention		IG USING VARYING SUPPLY OWER PULSES	′ OF
	DE	CLARATION	
As the below	named inventor, I hereby declare that:		
This declarati is directed to:		or PCT international application number	filed on
The above-ide	entified application was made or authorize	ed to be made by me.	
I believe that	I am the original inventor or an original jo	pint inventor of a claimed invention in the appl	ication.
	owledge that any willful false statement n onment of not more than five (5) years, or	nade in this declaration is punishable under 18 both	U.S.C. 1001 by
		lication and am aware of the duty to disclose to aterial to patentability as defined in 37 CFR §	
	AS	SIGNMENT	
hereby sell, as Grand Cayma the invention any foreign co extensions the and Application including but proceedings a	ssign, transfer, to GLOBALFOUNDRIES in KY1-1104 its successors and assigns, all listed above, together with the Application puntries, and any reissues, re-examinations ereof that may be issued or granted, and all ons, for the United States and all foreign c not limited to the priority rights arising fro	ufficiency and adequacy of which are hereby a Inc. having a business address of PO Box 309 bsolutely and forever, my entire right, title and n, any and all Patents that may issue in the Uni s, renewals, continuations, continuation-in-part l right, title and interest to the inventions conta countries, and all the rights and privileges relati om said Applications, the right to recover and to mages or otherwise in respect of past, present to ain patents on said inventions.	, Ugland House, interest in and to ted States and/or is, divisionals or ined in said Patents ng thereto ake all such
	n of this Combined Declaration or Assig eless remain in full force and effect.	gnment is held unenforceable, then remainin	g portions hereof
	E OF INVENTOR Mingmei WANG	Date: 9/18/2	013
Inventor: Signature:			

PATENT REEL: 031242 FRAME: 0450

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	FEATURE ETCHING USING VARYING SUPPLY OF POWER PULSES			
	DECLARATION			
As the below r	named inventor, I hereby declare that:			
This declaration is directed to:	This declaration The attached application, or			
	United States application or PCT international application number filed on			
The above-ide	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.			
	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.			
	d 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, ass Grand Cayman the invention li any foreign cou extensions ther and Application including but n 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, KY1-1104 its successors and assigns, absolutely and forever, my entire right, title and interest in and to isted above, together with the Application, any and all Patents that may issue in the United States and/or untries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or eof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents ins, for the United States and all foreign countries, and all the rights and privileges relating thereto ot 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 and the right to apply for, take and maintain patents on said inventions.			
	of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof less remain in full force and effect.			
	E OF INVENTOR Tacjoon HAN Date: Sep 1646 2013			
Inventor:	Aneperin Han			
	ation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.			

84625460v1

RECORDED: 09/19/2013