502175263 12/26/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Moshe E Preil	12/19/2012
Gerard M. Schmid	12/19/2012
Richard A. Farrell	12/19/2012
Ji Xu	12/19/2012
Thomas I. Wallow	12/21/2012

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:	13726732

CORRESPONDENCE DATA

Fax Number: 5184567004

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 518 456-7084

Email: kjones@kdiplaw.com

Correspondent Name: Keohane & D'Alessandro PLLC

Address Line 1: 1881 Western Avenue

Address Line 2: Suite 180

Address Line 4: Albany, NEW YORK 12203

NAME OF SUBMITTER:	Ronald A. D'Alessandro

PATENT REEL: 029525 FRAME: 0939 \$40.00 137;

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This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

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PATENT REEL: 029525 FRAME: 0940

Title of Invention	OPTIMIZING LITHOGRAPHIC PROCESSES USING LASER ANNEALING TECHNIQUES	
As the below	As the below named inventor, I hereby declare that:	
This declara		
,	United States application or PCT international application number filed on	
The above-io	dentified application was made or authorized to be made by me.	
I believe that application.	t I am the original inventor or an original joint inventor of a claimed invention in the	
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 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.		
Inventor: Moshe E Preil Signature: Moshe E Preil Moshe E Preil Moshe E Preil		
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.		

84625460v1

Title of Invention	OPTIMIZING LITHOGRAPHIC PROCESSES USING LASER ANNEALING TECHNIQUES
As the below named inventor, I hereby declare that: This declaration X 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 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: Gerard Schmid Signature: Land M. M. C. Signature: Land M. M. M. M. C. Signature: Land M. M. M. C. Signature: Land M. M. M. M. M. C. Signature: Land M. M. M. M. C. Signature: Land M. M. M. M. M. C. Signature: Land M.	
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.	

PATENT

REEL: 029525 FRAME: 0942

Title of Iuvention	OPTIMIZING LITHOGRAPHIC PROCESSES USING LASER ANNEALING TECHNIQUES
As the below named inventor, I hereby declare that: This declaration X The attached application, or is directed to: United States application or PCT international application number	
The above-io	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 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 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.	
Inventor: Richard A. Farrell Signature: Date: 12/19/20(2	
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.	

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PATENT

REEL: 029525 FRAME: 0943

Title of Invention	OPTIMIZING LITHOGRAPHIC PROCESSES USING LASER ANNEALING TECHNIQUES
As the below named inventor, I hereby declare that: This declaration X The attached application, or is directed to: United States application or PCT international application number	
The above-io	lentified 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 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: Signature:	Ji Xu Date: 12/19/20/2
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.	

PATENT

REEL: 029525 FRAME: 0944

Title of Invention	OPTIMIZING LITHOGRAPHIC PROCESSES USING LASER ANNEALING TECHNIQUES	
As the below named inventor, I hereby declare that: This declaration X The attached application, or		
is directed to		
The above-io	The above-identified 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 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 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.		
Inventor: Thomas Wallow Date: 12/21/2012. 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.		

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PATENT REEL: 029525 FRAME: 0945

RECORDED: 12/26/2012