PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5820284

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT		
	Corrective Assignment to correct the SPELLING OF MICHAEL A. GUILLORN'S NAME previously recorded on Reel 039615 Frame 0182. Assignor(s) hereby confirms the ASSIGNMENT.		

CONVEYING PARTY DATA

Name	Execution Date
BRUCE B. DORIS	08/31/2015
MICHAEL A. GUILLORN	08/28/2015
ISAAC LAUER	09/02/2015
XIN MIAO	08/28/2015

RECEIVING PARTY DATA

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION	
Street Address:	NEW ORCHARD ROAD	
City:	ARMONK	
State/Country:	NEW YORK	
Postal Code:	10504	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Patent Number:	9911592	

CORRESPONDENCE DATA

Fax Number:

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: 4089271759

Email: Iddrev@us.ibm.com
Correspondent Name: IBM CORPORATION

Address Line 1: 1101 KITCHAWAN ROAD, ROUTE 134, P.O. BOX 218

Address Line 4: YORKTOWN, NEW YORK 10598

ATTORNEY DOCKET NUMBER:	YOR920150463US2
NAME OF SUBMITTER:	AMIRAH SCARBOROUGH
SIGNATURE:	/Amirah Scarborough/
DATE SIGNED:	11/14/2019

Total Attachments: 7

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PATENT REEL: 051850 FRAME: 0941

505773467

PATENT REEL: 051850 FRAME: 0942

503988114 09/01/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4034771 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRUCE B. DORIS	08/31/2015
MICAHEL A. GUILLORN	08/28/2015
ISAAC LAUER	09/02/2015
XIN MIAO	08/28/2015

RECEIVING PARTY DATA

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION	
Street Address:	NEW ORCHARD ROAD	
City:	ARMONK	
State/Country:	NEW YORK	
Postal Code:	10504	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15254394	

CORRESPONDENCE DATA

Fax Number: (631)844-0081

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: 6318440080

Email: elyssa@tb-iplaw.com

Correspondent Name: TUTUNJIAN & BITETTO, P.C.

Address Line 1: 401 BROADHOLLOW ROAD, SUITE 402

Address Line 4: MELVILLE, NEW YORK 11747

ATTORNEY DOCKET NUMBER: YOR920150463US2(983 DIV)

NAME OF SUBMITTER: JAMES J. BITETTO

SIGNATURE: /jjb/

DATE SIGNED: 09/01/2016

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

Total Attachments: 5

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PATENT 503988114 REEL: 059656 FRAME: 0982

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source=YOR920150463US2_FiledAssignDec#page5.tif

PATENT REEL: 059656 FRAME: 0983

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: ATOMIC LAYER DEPOSITION SEALING INTEGRATION FOR NANOSHEET COMPLEMENTARY METAL OXIDE SEMICONDUCTOR WITH REPLACEMENT SPACER

As a below named and undersigned inventor, I hereby declare that:
This declaration is directed to the attached application, or (if following box is checked):
[] United States application or PCT international application number
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 have reviewed and understand the contents of the application, including the claims.
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Page 1 of 2

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

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.

(1)	Legal Name of Inventor: [Bruce B. Doris]		
	Signature:	_ Date:	8/31/2015
(2)	Legal Name of Inventor: [Michael A. Guillorn]		
	Signature:	Date:	
(3)	Legal Name of Inventor: [Isaac Lauer]		
	Signature:	_ Date:	
(4)	Legal Name of Inventor: [Xin Miao]		
	Signature:	_ Date:	

IBM DOCKET NUMBER: YOR920150463US1 (163-983)

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

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(1)	Legal Name of Inventor: [Bruce B. Doris]	
	Signature:	Date:
(2)	Legal Name of Inventor: [Michael A. Guillorn] Signature: Mull All All	Date: 8/28/20/5
(3)	Legal Name of Inventor: [Isaac Lauer]	
	Signature:	Date:
(4)	Legal Name of Inventor: [Xin Miao]	
	Signature	Date:

IBM DOCKET NUMBER: YOR920150463US1 (163-983)

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(1)	Legal Name of Inventor: [Bruce B. Doris]	
	Signature:	Date:
(2)	Legal Name of Inventor: [Michael A. Guillorn]	
	Signature:	Date:
	Legal Name of Inventor: [Isaac Lauer]	
	Signature: 4 M	Date: 9/2/5
(4)	Legal Name of Inventor: [Xin Miao]	
	Signature:	Date:

IBM DOCKET NUMBER: YOR920150463US1 (163-983)

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(1) Legal Name of Inventor: [Bruce B. Doris]	
Signature:	Date:
(2) Legal Name of Inventor: [Michael A. Guillorn]	
Signature:	Date:
(3) Legal Name of Inventor: [Isaac Lauer]	
Signature:	Date:
(4) Legal Name of Inventor: [Xin Miao]	
Signature:	

Page 2 of 2