502109602 10/28/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Takashi Ando	10/24/2012
Eduard A. Cartier	10/24/2012
Barry P. Linder	10/24/2012
Vijay Narayanan	10/26/2012

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:	13662505	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	JMBER: YOR920120326US1	
NAME OF SUBMITTER:	Michael J. Buchenhorner	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 3

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PATENT REEL: 029203 FRAME: 0377

IBM DOCKET NUMBER: YOR920120326US1

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: Method to Improve Reliability of High-k Metal Gate Stacks

As a below named 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.
have reviewed and understand the contents of the application, including the claims
am aware of the duty to disclose to the United States Patent and Trademark Office all information snown to me to be material to patentability as defined in 37 CFR Section 1.56.
Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries berein referred to as the "Invention") disclosed in the above-identified patent application and further

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

identified by the IBM Docket Number provided above in the header of this document;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the 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, each undersigned inventor hereby authorizes and requests 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 IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, 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 the undersigned had this Assignment not been made; and each undersigned inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

IBM DOCKET NUMBER: YOR920120326US1

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, 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: Takashi Ando	
Signature: <u>Takashi Ando</u>	Date: <u>/0 - 24 - 20</u> 72
(2) Legal Name of Inventor: Eduard A. Cartier	
Signature: Edicard 4. Les We)
(3) Legal Name of Inventor: Barry P. Linder	
Signature: 18-7 11 July	Date: 10-24-2012
(4) Legal Name of Inventor: Vijay Narayanan	
Signature: VAN AND AND AND AND AND AND AND AND AND A	Date: <u>\0~26-201</u> 2_

Form **PTO-1595** (Rev. 03-11) OMB No. 0651-0027 (exp. 04/30/2015)

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.			
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)		
Takashi Ando - 10/24/2012	Name:International Business Machines Corporation		
Eduard A. Cartier -10/24/2012 Barry P. Linder - 10/24/2012 Vijay Narayanan - 10/26/2012	Internal Address:		
Additional name(s) of conveying party(ies) attached? Yes No			
3. Nature of conveyance/Execution Date(s):	Street Address: New Orchard Road		
Execution Date(s)see above			
X Assignment Merger			
Security Agreement Change of Name	City: Armonk		
Joint Research Agreement	State: NY		
Government Interest Assignment	Country IIC 7ind 0504		
Executive Order 9424, Confirmatory License	Country: US Zip: 10504		
Other	Additional name(s) & address(es) attached? Yes No		
Additional numbers att	ached? Yes No		
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:		
Name:Michael J. Buchenhorner	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00		
Internal Address:	7. Total lee (37 CFR 1.21(II) & 3.41) \$\\ \psi \\ \psi		
	X Authorized to be charged to deposit account		
Street Address:8540 SW 83 Street	Enclosed		
Sileet Address. 0040 SW 65 Sileet	None required (government interest not affecting title)		
City: Miami	8. Payment Information		
State:FL Zip33143			
Phone Number:305 273-8007			
Docket Number:YOR920120326US1	Deposit Account Number 500510		
Email Address: ana@buchenhorner.com	Authorized User Name Ana Buchenhorner		
9. Signature: /Mishael I Bushanbara			
/Michael J. Buchenhorn Signature	er/ October 28, 2012 Date		
Michael J. Buchenhorner	Total number of pages including cover		
Name of Person Signing	sheet, attachments, and documents:		
Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450			

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RECORDED: 10/28/2012 REEL: 029203 FRAME: 0380