PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Michael P. Chudzik	05/21/2012
Min Dai	05/20/2012
Joseph F. Shepard Jr.	05/21/2012
Shahab Siddiqui	05/21/2012
Paul A. Ronsheim	05/27/2012

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:	13490740

CORRESPONDENCE DATA

 Fax Number:
 (845)892-6363

 Phone:
 518-449-0044

Email: Donmich@us.ibm.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: HOFFMAN WARNICK LLC

Address Line 1: 540 Broadway
Address Line 2: 4th Floor

Address Line 4: ALBANY, NEW YORK 12207

ATTORNEY DOCKET NUMBER:	FIS920120019US1	
NAME OF SUBMITTER:	Yuanmin Cai	PATENT

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Total Attachments: 6

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PATENT REEL: 028335 FRAME: 0423

ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: METHOD OF MANUFACTURING SCALED EQUIVALENT OXIDE THICKNESS GATE STACKS IN SEMICONDUCTOR DEVICES AND RELATED DESIGN STRUCTURE

and further identified by the IBM Docket Number provided above in	the header of this
Assignment, for which an application for a United States Patent was	executed concurrently
herewith or was filed having:	

Serial Number:	(insert series code and serial number here if/v	when available)
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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;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers 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.

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

Page 1 of 3

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 Serial 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.

[Inventor Signature Pages Follow]

Executed by Inventor 1 of 5			
Signature: _	Michael P. Chudzik		Date:
	Exe	ecuted by Inventor 2	of 5
Signature:	Min Dai Exe	ecuted by Inventor 3	Date:

Signature:			Date:
	Paul A. Ronsheim		

Executed by Inventor 4 of 5			
Signature:	Joseph F. Shepard, Jr.	Date:	5/21/12
***************************************	Executed by 1	Inventor 5 of 5	
Signature:	Shahab Siddiqui	Date: _	5/21/12

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[Inventor Signature Pages Follow]

Executed by Inventor 1 of 5		
Signature: _	Date: Date:	
***************************************	Executed by Inventor 2 of 5	
Signature: _	Min Dai	
***************************************	Executed by Inventor 3 of 5	
Signature: _	Taul O Ransle Date: 5/27/2012 Paul A. Ronsheim	

IBM DOCKET NUMBER: FIS920120019US1

Executed by Inventor 4 of 5		
Signature: _		e:
	Joseph F. Shepard, Jr.	de la companya de la
n de la company de la comp	Executed by Inventor 5 of 5	
Signature:	Dat	e:
	Shahah Siddiani	***************************************

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PATENT REEL: 028335 FRAME: 0429