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1. Name of conveying party(ies)

- (1) Amlan Majumdar
- (2) Renee Tong Mo
- (3) Zhibin Ren
- (4) Jeffrey Sleight

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: International Business Machines Corporation

Internal Address: _____

Street Address: New Orchard Road

City: Armonk

State: New York

Country: United States Zip: 10504

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) October 31, 2007

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

11/931,033

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Michael J. Chang

Internal Address: Michael J. Chang, LLC

Street Address: 84 Summit Avenue

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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

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- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

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Authorized User Name Michael J. Chang

9. Signature:

Signature

July 12, 2008

Date

Michael J. Chang, Reg. No. 46,611

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YOR920070395US1

700377821

PATENT
REEL: 021229 FRAME: 0816

CH \$40.00 500510 11931033

ASSIGNMENT

Inventor and City

Whereas, we

(1) Amlan Majumdar
County of Westchester of White Plains
and State of New York

(2) Renee Tong Mo
County of Westchester of Briarcliff Manor
and State of New York

(3) Zhibin Ren
County of Dutchess of Hopewell Junction
and State of New York

(4) Jeffrey Sleight
County of Fairfield of Ridgefield
and State of Connecticut

have invented certain improvements in

TITLE **METAL-GATED MOSFET DEVICES HAVING SCALED GATE STACK THICKNESS**

and executed, respectively, a United States patent application therefor on

DATE THAT INVENTOR SIGNED THE DECLARATION (1) 10/31, 2007, (2) _____, 2007, (3) _____, 2007, (4) 10/31, 2007.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

(1) Amlan Majumdar on 10/31, 2007
(Amlan Majumdar) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

(2) _____ on _____, 2007
(Renee Tong Mo) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

(3) _____ on _____, 2007
(Zhibin Ren) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

(4) Jeffrey Sleight on 10/31, 2007
(Jeffrey Sleight) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

ASSIGNMENT

Inventor and City

Whereas, we

(1) Amlan Majumdar County of Westchester	of White Plains and State of New York
(2) Renee Tong Mo County of Westchester	of Briarcliff Manor and State of New York
(3) Zhibin Ren County of Dutchess	of Hopewell Junction and State of New York
(4) Jeffrey Sleight County of Fairfield	of Ridgefield and State of Connecticut

have invented certain improvements in

TITLE METAL-GATED MOSFET DEVICES HAVING SCALED GATE STACK THICKNESS

and executed, respectively, a United States patent application therefor on

DATE THAT INVENTOR SIGNED THE DECLARATION

(1) _____, 2007, (2) 10/31, 2007, (3) 10/31, 2007, (4) _____, 2007.

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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

(1) _____ (Amlan Majumdar) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	on _____, 2007
(2) <u>Renee T. Mo</u> (Renee Tong Mo) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	on <u>10/31</u> , 2007
(3) <u>Zhibin Ren</u> (Zhibin Ren) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	on <u>10/31</u> , 2007
(4) _____ (Jeffrey Sleight) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	on _____, 2007

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FACSIMILE TRANSMITTAL SHEET

Date: July 12, 2008

File: Patent Application No. 11/931,033 (Attorney Docket No. YOR920070395US1)

From: **MICHAEL J. CHANG**

To the following recipients:

NAME	COMPANY	FAX NUMBER
Assignment Recordation Services	U.S. Patent and Trademark Office	(571) 273-0140

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