## 502455790 08/13/2013

#### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Hung-Chun Wang	03/04/2011
Pei-Shiang Chen	03/04/2011
Tzu-Chin Lin	03/04/2011
Faruk Krecinic	03/07/2011
Jeng-Homg Chen	03/07/2011
Wen-Chun Huang	03/04/2011
Ru-Gun Liu	03/08/2011

#### **RECEIVING PARTY DATA**

Name:	Taiwan Semiconductor Manufacturing Company, Ltd.	
Street Address:	No. 8, Li-Hsin Road 6	
Internal Address:	Science-Based Industrial Park	
City:	Hsin-Chu	
State/Country:	TAIWAN	
Postal Code:	300-77	

## PROPERTY NUMBERS Total: 1

	Property Type	Number
Applica	ation Number:	13964974

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: 24061.2603

502455790 PATENT
REEL: 030996 FRAME: 0437

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NAME OF SUBMITTER:	Brian D. Graham
Signature:	/Brian D. Graham/
Date:	08/13/2013
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PATENT REEL: 030996 FRAME: 0438

Docket No.: 2010-1207 / 24061.1698

Customer No.: 42717

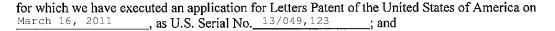
#### ASSIGNMENT

WHEREAS,	we.
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(1)	Hung-Chun Wang	of	390, Chung-San Road Ching-Suei, Taichung County, Taiwan, R.O.C.
(2)	Pei-Shiang Chen	of	6F-1, No. 111, Zhiping Road, East District Hsinchu City 300, Taiwan, R.O.C.
(3)	Tzu-Chin Lin	of	9F-3, No. 10, Lane 175, Wuling Road Hsinchu City 300, Taiwan, R.O.C.
(4)	Faruk Krecinic	of	No. 7, Jin Shan Bei 1st Street, Room 504 Hsin Chu, Taiwan, R.O.C.
(5)	Jeng-Horng Chen	of	1, Alley 2, lane 45, Fu-Chyun Street Hsin-Chu, Taiwan, R.O.C.
(6)	Wen-Chun Huang	of	58, Zhong-Shan Road, Xi-Gang Village Xi-Gang Xiang, Tainan County 723, Taiwan, R.O.C
(7)	Ru-Gun Liu	of	No. 9, Alley 19, Lane 452, Baoshan Road Hsinchu City 300, Taiwan, R.O.C.

have invented certain improvements in

# ELECTRON BEAM DATA STORAGE SYSTEM AND METHOD FOR HIGH VOLUME MANUFACTURING



WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC"), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be filed for said invention in any country or countries foreign to the United States of America, and all

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extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Hung-Chun Wang

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Dated: 2011/2/4

Inventor Signature

Inventor Name:

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Dated: >011/3/4

Dei-Bhiang Chen Inventor Signature

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Customer No.: 42717

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**RECORDED: 08/13/2013** 

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PATENT REEL: 030996 FRAME: 0442