# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Chin-Chang HSU	09/19/2011
Wen-Ju YANG	09/19/2011
Hsiao-Shu CHAO	09/20/2011
Yi-Kan CHENG	09/20/2011

## RECEIVING PARTY DATA

Name:	Taiwan Semiconductor Manufacturing Co., 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
Application Number:	13238127

#### CORRESPONDENCE DATA

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

Mail.

Correspondent Name: Duane Morris LLP Address Line 1: 30 South 17th Street

Address Line 4: Philadelphia, PENNSYLVANIA 19103-4196

ATTORNEY DOCKET NUMBER: N1085-00802 NAME OF SUBMITTER: Joseph A. Powers

Total Attachments: 3

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> **PATENT** REEL: 027009 FRAME: 0911

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Serial No. 13/238,127 filed September 21, 2011

ATTORNEY DOCKET NO.: 2011.0494/1085.802

# ASSIGNMENT AND AGREEMENT

For value received, we, Chin-Chang HSU, Wen-Ju YANG, Hsiao-Shu CHAO and Yi-Kan CHENG, hereby transfer to Taiwan Semiconductor Manufacturing Co., Ltd., with its principal place of business located at No. 8, Li-Hsin Road 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to MULTI-PATTERNING METHOD, described in a non-provisional application and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof, or claiming priority therefrom that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Taiwan Semiconductor Manufacturing Co., Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Taiwan Semiconductor Manufacturing Co., Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Taiwan Semiconductor Manufacturing Co., Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Taiwan Semiconductor Manufacturing Co., Ltd. may designate.

-1-

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We agree that, when requested, we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Inventor No. 1

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Dated: 2011/09/19

Chin-Chang Hsu
Chin-Chang HSU

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Inventor No. 2

Dated: 2011/69/19

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Dated: 201/09/80

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-2-

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ATTORNEY DOCKET NO.: 2011.0494/1085.802

Inventor No. 4

Dated: 904 //

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- 3 -

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PATENT REEL: 027009 FRAME: 0914

**RECORDED: 10/04/2011**