

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Andy Tsen</td> <td>05/10/2011</td> </tr> <tr> <td>Jin-Ning Sung</td> <td>05/10/2011</td> </tr> <tr> <td>Po-Feng Tsai</td> <td>05/10/2011</td> </tr> <tr> <td>Jong-I Mou</td> <td>05/10/2011</td> </tr> <tr> <td>Yen-Wei Cheng</td> <td>05/10/2011</td> </tr> </tbody> </table>		Name	Execution Date	Andy Tsen	05/10/2011	Jin-Ning Sung	05/10/2011	Po-Feng Tsai	05/10/2011	Jong-I Mou	05/10/2011	Yen-Wei Cheng	05/10/2011
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Yen-Wei Cheng	05/10/2011												
<b>RECEIVING PARTY DATA</b>													
Name:	Taiwan Semiconductor Manufacturing Company, Ltd.												
Street Address:	No. 8, Li-Hsin Road 6												
City:	Hsin-Chu												
State/Country:	TAIWAN												
Postal Code:	300-77												
<b>PROPERTY NUMBERS Total: 1</b>													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13106711</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13106711								
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<b>CORRESPONDENCE DATA</b>													
Fax Number:	(214)200-0853												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	214-651-5000												
Email:	ipdocketing@haynesboone.com												
Correspondent Name:	HAYNES AND BOONE, LLP												
Address Line 1:	2323 Victory Avenue												
Address Line 2:	Suite 700												
Address Line 4:	Dallas, TEXAS 75219												
ATTORNEY DOCKET NUMBER:	24061.1801 - BRANDI S.												
NAME OF SUBMITTER:	Brandi W. Sarfatis												
Total Attachments: 3 source=1801-CIP_Assignment#page1.tif source=1801-CIP_Assignment#page2.tif source=1801-CIP_Assignment#page3.tif													

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2008-0868-CIP/24061.1801

Docket No.: 2008-0534/24061.1153

Customer No.: 42717

**ASSIGNMENT**

WHEREAS, we,

- (1) Andy Tsen of 38, Floor 11, Alley 167, Chung-Cheng Road  
Chung-Ho City, Taipei County 235, Taiwan, R.O.C.
- (2) Jin-Ning Sung of No. 10, Alley 4, Lane 183, Kaifong Street  
Pingzhen City, Taoyuan County 324, Taiwan, R.O.C.
- (3) Po-Feng Tsai of 5F, No. 92-1, Sec. 3, Neihu Road, Neihu District  
Hsinpu Township, Hsinchu County 30542, Taiwan, R.O.C.
- (4) Jong-I Mou of No. 11, Daxiang Road  
Hsinpu Township, Hsinchu County 30542, Taiwan, R.O.C.
- (5) Yen-Wei Cheng of 3F, No. 14, Lane 43, Sec. 1, Chenggong Rd, Yonghe District  
New Taipei City 23452, Taiwan, R.O.C.

have invented certain improvements in

**SYSTEM AND METHOD FOR IMPLEMENTING  
MULTI-RESOLUTION ADVANCED PROCESS CONTROL**

for which we have executed an application for Letters Patent of the United States of America,

✓ of even date filed herewith; and  
filed on 5-12-11 and assigned application no. 131106.711 and;

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 granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all 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

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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.

Inventor Name: Andy Tsen

Residence Address: 38, Floor 11, Alley 167, Chung-Cheng Road  
Chung-Ho City, Taipei County 235, Taiwan, R.O.C.

Dated: May 10, 2011

Andy Tsen  
Inventor Signature

Inventor Name: Jin-Ning Sung

Residence Address: No. 10, Alley 4, Lane 183, Kaifong Street  
Pingjhen City, Taoyuan County 324, Taiwan, R.O.C.

Dated: May 10, 2011

Jin-Ning Sung  
Inventor Signature

Inventor Name: Po-Feng Tsai

Residence Address: 5F, No. 92-1, Sec. 3, Neihu Road, Neihu District  
Hsinpu Township, Hsinchu County 30542, Taiwan, R.O.C.

Dated: May 10, 2011

Po-Feng Tsai  
Inventor Signature

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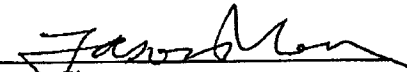
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Inventor Name: Jong-I Mou

Residence Address: No. 11, Daxiang Road  
Hsinpu Township, Hsinchu County 30542, Taiwan, R.O.C.

Dated: ✓ 5/10/2011

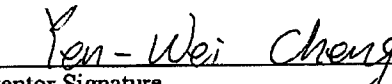
✓   
Inventor Signature

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Inventor Name: Yen-Wei Cheng

Residence Address: 3F, No. 14, Lane 43, Section 1, Chenggong Rd., Yonghe District  
New Taipei City 23452, Taiwan, R.O.C.

Dated: ✓ 5.10.2011

✓   
Inventor Signature