

# PATENT ASSIGNMENT

Electronic Version v1.1

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jia-Rui HU</td> <td>06/02/2011</td> </tr> <tr> <td>Te-Chih HUANG</td> <td>06/02/2011</td> </tr> <tr> <td>Chih-Ming KE</td> <td>06/02/2011</td> </tr> <tr> <td>Hua-Tai LIN</td> <td>06/02/2011</td> </tr> <tr> <td>Tsai-Sheng GAU</td> <td>06/02/2011</td> </tr> </tbody> </table>		Name	Execution Date	Jia-Rui HU	06/02/2011	Te-Chih HUANG	06/02/2011	Chih-Ming KE	06/02/2011	Hua-Tai LIN	06/02/2011	Tsai-Sheng GAU	06/02/2011
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<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.</td> </tr> <tr> <td><b>Street Address:</b></td> <td>No. 8, Li-Hsin Rd. 6</td> </tr> <tr> <td><b>Internal Address:</b></td> <td>Science-Based Industrial Park</td> </tr> <tr> <td><b>City:</b></td> <td>Hsin-Chu</td> </tr> <tr> <td><b>State/Country:</b></td> <td>TAIWAN</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>300-77</td> </tr> </table>		<b>Name:</b>	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	<b>Street Address:</b>	No. 8, Li-Hsin Rd. 6	<b>Internal Address:</b>	Science-Based Industrial Park	<b>City:</b>	Hsin-Chu	<b>State/Country:</b>	TAIWAN	<b>Postal Code:</b>	300-77
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<b>PROPERTY NUMBERS Total: 1</b>													
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<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (214)200-0853</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 214-651-5000</p> <p>Email: eppsl@haynesboone.com</p> <p>Correspondent Name: HAYNES AND BOONE, LLP IP Section</p> <p>Address Line 1: 2323 Victory Avenue</p> <p>Address Line 2: Suite 700</p> <p>Address Line 4: Dallas, TEXAS 75219</p>													
<b>ATTORNEY DOCKET NUMBER:</b>	2010-1039 / 24061.1759												

OP \$40.00 13152135

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**PATENT**  
**REEL: 026767 FRAME: 0422**

NAME OF SUBMITTER:

David M. O'Dell

Total Attachments: 3

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1039

Docket No.: 2010-1309-/24061.1759

Customer No.: 42717

**ASSIGNMENT**

WHEREAS, we,

- |     |                |    |   |
|-----|----------------|----|---|
| (1) | Jia-Rui Hu     | of | 11F-2, No. 96-30, Gongyequ 1st Road, Xitun District<br>Taichung City 407, Taiwan, R.O.C.      |
| (2) | Te-Chih Huang  | of | No. 35, Lane 53, Alley 268, Shin-Ming Street<br>Chu-Bei City, Shin-Chu County, Taiwan, R.O.C. |
| (3) | Chih-Ming Ke   | of | 9F, No. 17, Alley 7, Lane 298, Sec. 2, Guangfu Road<br>Hsinchu City 300, Taiwan, R.O.C.       |
| (4) | Hua-Tai Lin    | of | 3F, No. 2-6, Bamboo Road 7th Hsinchu Science Park<br>Hsinchu 300, Taiwan, R.O.C.              |
| (5) | Tsai-Sheng Gau | of | No. 35, Lane 4, An-Kang Street<br>Hsinchu City, Taiwan, R.O.C.                                |

have invented certain improvements in

**EXTRACTION OF SYSTEMATIC DEFECTS**

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

\_\_\_\_\_ of even date filed herewith; and  
xx filed on June 2, 2011 and assigned application no. 13/152,135 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 invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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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.

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Inventor Name: Jia-Rui Hu

Residence Address: 11F-2, No. 96-30, Gongyequ 1st Road, Xitun District  
Taichung City 407, Taiwan, R.O.C.

Dated: June 02, 2011

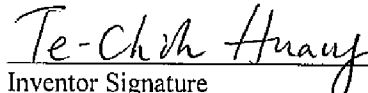
  
Inventor Signature

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Inventor Name: Te-Chih Huang

Residence Address: No. 35, Lane 53, Alley 268, Shin-Ming Street  
Chu-Bei City, Shin-Chu County, Taiwan, R.O.C.

Dated: June 02, 2011

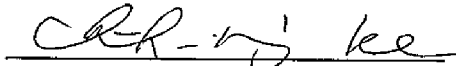
  
Inventor Signature

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Inventor Name: Chih-Ming Ke

Residence Address: 9F, No. 17, Alley 7, Lane 298, Sec. 2, Guangfu Road  
Hsinchu City 300, Taiwan, R.O.C.

Dated: June 02, 2011

  
Inventor Signature

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Inventor Name: Hua-Tai Lin

Residence Address: 3F, No. 2-6, Bamboo Road 7th Hsinchu Science Park  
Hsinchu 300, Taiwan, R.O.C.

Dated: 06/02/2011

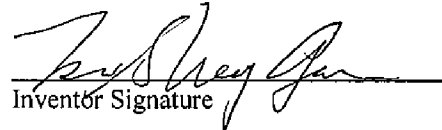
  
Inventor Signature

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Inventor Name: Tsai-Sheng Gau

Residence Address: No. 35, Lane 4, An-Kang Street  
Hsinchu City, Taiwan, R.O.C.

Dated: 2011.6.2.

  
Inventor Signature