

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Chen-Tung Lin</td> <td>06/05/2004</td> </tr> <tr> <td>Chih-Wei Chang</td> <td>06/05/2004</td> </tr> <tr> <td>Chii-Ming Wu</td> <td>06/05/2004</td> </tr> <tr> <td>Mei-Yun Wang</td> <td>06/05/2004</td> </tr> <tr> <td>Chiang-Ming Chuang</td> <td>06/21/2004</td> </tr> <tr> <td>Shau-Lin Shue</td> <td>06/05/2004</td> </tr> </tbody> </table>		Name	Execution Date	Chen-Tung Lin	06/05/2004	Chih-Wei Chang	06/05/2004	Chii-Ming Wu	06/05/2004	Mei-Yun Wang	06/05/2004	Chiang-Ming Chuang	06/21/2004	Shau-Lin Shue	06/05/2004
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Chiang-Ming Chuang	06/21/2004														
Shau-Lin Shue	06/05/2004														
RECEIVING PARTY DATA															
Name:	Taiwan Semiconductor Manufacturing Company, Ltd.														
Street Address:	No. 8, Li-Hsin Rd. 6														
Internal Address:	Science-Based Industrial Park														
City:	Hsin-Chu														
State/Country:	TAIWAN														
Postal Code:	300-77														
PROPERTY NUMBERS Total: 1															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10872343</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	10872343										
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Application Number:	10872343														
CORRESPONDENCE DATA															
Fax Number:	(214)200-0853														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	972-739-8635														
Email:	ipdocketing@haynesboone.com														
Correspondent Name:	Haynes and Boone, LLP														
Address Line 1:	901 Main Street, Suite 3100														
Address Line 4:	Dallas, TEXAS 75202														
NAME OF SUBMITTER:	David M. O'Dell														

CH \$40.00 10872343

Total Attachments: 3

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ASSIGNMENT

WHEREAS, we,

- | | | | |
|-----|--------------------|----|-------------------------------|
| (1) | Chen-Tung Lin | of | Hsin-Chu City, Taiwan, R.O.C. |
| (2) | Chih-Wei Chang | of | Hsin-Chu City, Taiwan, R.O.C. |
| (3) | Chii-Ming Wu | of | Hsin-Chu City, Taiwan, R.O.C. |
| (4) | Mei-Yun Wang | of | Hsin-Chu City, Taiwan, R.O.C. |
| (5) | Chiang-Ming Chuang | of | Hsin-Chu City, Taiwan, R.O.C. |
| (6) | Shau-Lin Shue | of | Hsin-Chu City, Taiwan, R.O.C. |

have invented certain improvements in

METHODS OF MANUFACTURING METAL-SILICIDE FEATURES

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

_____ of even date filed herewith; and
 X filed on June 18, 2004 and assigned application number 10/872,343; 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 One Dollar (\$1.00) and other 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.

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: Chen-Tung Lin

Residence Address: (address) 5F, No. 6, Alley 3rd, Lane 152, Sec. 2, Zhongxing Rd, Zhudong
Hsin-Chu, Taiwan 300, R.O.C. Township, Hsinchu County 310, Taiwan (R.O.C.)
Taiwan, R.O.C.

Dated: 06/05/2004

Chen-Tung Lin
Inventor Signature

Inventor Name: Chih-Wei Chang

Residence Address: (address) 7F, No. 108, Sec 4, Chuang-Hsin Rd. Hsin-Chu, R.O.C.
Hsin-Chu, Taiwan 300, R.O.C.
Taiwan, R.O.C.

Dated: 06/05/2004

Chih-Wei Chang
Inventor Signature

Inventor Name: Chii-Ming Wu

Residence Address: (address)
Hsin-Chu, Taiwan 300, R.O.C.
Taiwan, R.O.C.

Dated: 06/05/2004

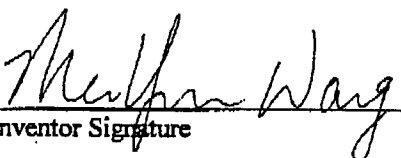
Chii-Ming Wu
Inventor Signature

Docket No.: 2003-1386/24061.189
Customer No. 42717

Inventor Name: Mei-Yun Wang

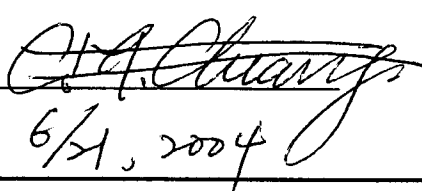
Residence Address: (address) 15F ->, No.46, Sec.7, Chung-Hwa Rd.,
Hsin-Chu, Taiwan 300, R.O.C.
Taiwan, R.O.C.

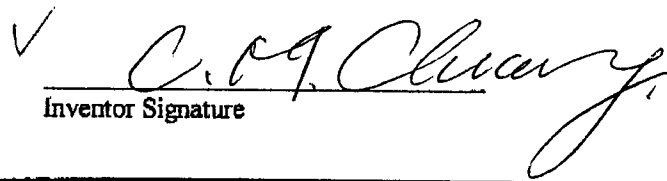
Dated: 6/5, 2004


Inventor Signature

Inventor Name: Chiang-Ming Chuang

Residence Address: (address)
Hsin-Chu, Taiwan 300, R.O.C.
Taiwan, R.O.C.

✓ Dated: 
6/1, 2004

✓ 
Inventor Signature

Inventor Name: Shau-Lin Shue

Residence Address: (address)
Hsin-Chu, Taiwan 300, R.O.C.
Taiwan, R.O.C.

Dated: 6/5, 2004


Inventor Signature

R-74808.1