

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 style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Wen-Wei SHEN</td> <td>12/29/2009</td> </tr> <tr> <td>Chen-Shien CHEN</td> <td>12/29/2009</td> </tr> <tr> <td>Chen-Cheng KUO</td> <td>12/29/2009</td> </tr> <tr> <td>Chih-Hua CHEN</td> <td>12/29/2009</td> </tr> <tr> <td>Ching-Wen HSIAO</td> <td>12/29/2009</td> </tr> </tbody> </table> | | Name | Execution Date | Wen-Wei SHEN | 12/29/2009 | Chen-Shien CHEN | 12/29/2009 | Chen-Cheng KUO | 12/29/2009 | Chih-Hua CHEN | 12/29/2009 | Ching-Wen HSIAO | 12/29/2009 |
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| Wen-Wei SHEN | 12/29/2009 | | | | | | | | | | | | |
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| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.</td> </tr> <tr> <td>Street Address:</td> <td>No. 8, Li-Hsin Rd. 6</td> </tr> <tr> <td>Internal Address:</td> <td>Science-Based Industrial Park</td> </tr> <tr> <td>City:</td> <td>Hsin-Chu</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> <tr> <td>Postal Code:</td> <td>300-77</td> </tr> </table> | | 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 |
| Name: | TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. | | | | | | | | | | | | |
| Street Address: | No. 8, Li-Hsin Rd. 6 | | | | | | | | | | | | |
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| 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>12623925</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12623925 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 12623925 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| <p>Fax Number: (214)200-0853 <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> | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 24061.1366 | | | | | | | | | | | | |

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PATENT
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NAME OF SUBMITTER:

David M. O'Dell

Total Attachments: 3

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Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

- | | | | |
|-----|-----------------|----|---|
| (1) | Wen-Wei Shen | of | 5F, No. 5, Alley 6, Lane 104, Zhongtai Street Xinzhuang City, Taipei County 242, Taiwan, R.O.C. |
| (2) | Chen-Shien Chen | of | 6F, No. 98, Wenxiao Street Hsin-Chu County 302, Taiwan, R.O.C. |
| (3) | Chen-Cheng Kuo | of | #127-4, Wa-Shin Street Chu-Pei City, Shin-Chu County, Taiwan, R.O.C. |
| (4) | Chih-Hua Chen | of | 9F, No. 32, Lioujia 7th Road Jhubei City, Hsinchu County 302, Taiwan, R.O.C. |
| (5) | Ching-Wen Hsiao | of | 4F, No. 12-3, Alley 14, Zhongyi Lane, Xhongxiao Road Banqiao City, Taipei County 220, Taiwan, R.O.C. |

have invented certain improvements in

STRONG INTERCONNECTION POST GEOMETRY

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 11/23/2009 and assigned application number 12/623,925 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, R.O.C. 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,

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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.

1. Inventor Name: Wen-Wei Shen

Residence Address: 5F, No. 5, Alley 6, Lane 104, Zhongtai Street
Xinzhuang City, Taipei County 242, Taiwan, R.O.C.

Dated: 2009. 12. 29

Wen-Wei Shen
Inventor Signature

2. Inventor Name: Chen-Shien Chen

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Dated: 2009 12. 29

Chen Shien Chen
Inventor Signature

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3. Inventor Name: Chen-Cheng Kuo

Residence Address: #127-4, Wa-Shin Street
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Dated: Chen-Cheng Kuo
2009.12.29

Chen-Cheng Kuo
Inventor Signature

4. Inventor Name: Chih-Hua Chen

Residence Address: 9F, No. 32, Lioujia 7th Road
Jhubei City, Hsinchu County 302, Taiwan, R.O.C.

Dated: Chih-Hua Chen
2009.12.29

Chih-Hua Chen
Inventor Signature

5. Inventor Name: Ching-Wen Hsiao

Residence Address: 4F, No. 12-3, Alley 14, Zhongyi Lane, Xhongxiao Road
Banqiao City, Taipei County 220, Taiwan, R.O.C.

Dated: 2009.12.29.

Ching-Wen Hsiao
Inventor Signature