

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yu-Wen Liu</td> <td>03/22/2011</td> </tr> <tr> <td>Ching-Jung Yang</td> <td>03/22/2011</td> </tr> <tr> <td>Hsien-Wei Chen</td> <td>03/22/2011</td> </tr> <tr> <td>Hsin-Yu Pan</td> <td>03/22/2011</td> </tr> <tr> <td>Chao-Wen Shih</td> <td>03/22/2011</td> </tr> </tbody> </table>		Name	Execution Date	Yu-Wen Liu	03/22/2011	Ching-Jung Yang	03/22/2011	Hsien-Wei Chen	03/22/2011	Hsin-Yu Pan	03/22/2011	Chao-Wen Shih	03/22/2011
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Hsin-Yu Pan	03/22/2011												
Chao-Wen Shih	03/22/2011												
<b>RECEIVING PARTY DATA</b>													
<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												
<b>PROPERTY NUMBERS Total: 1</b>													
<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>13050125</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13050125								
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Application Number:	13050125												
<b>CORRESPONDENCE DATA</b>													
<b>Fax Number:</b>	(214)200-0853												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
<b>Phone:</b>	214-651-5000												
<b>Email:</b>	ipdocketing@haynesboone.com												
<b>Correspondent Name:</b>	Haynes and Boone LLP												
<b>Address Line 1:</b>	2323 Victory Avenue												
<b>Address Line 2:</b>	Suite 700												
<b>Address Line 4:</b>	Dallas, TEXAS 75219												
<b>ATTORNEY DOCKET NUMBER:</b>	2010-0910/24061.1668												

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**PATENT  
 REEL: 026374 FRAME: 0972**

NAME OF SUBMITTER:

David M. O'Dell

Total Attachments: 3

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**ASSIGNMENT**

WHEREAS, we,

- |     |                 |    |   |
|-----|-----------------|----|---|
| (1) | Yu-Wen Liu      | of | 4F., No.6, Alley 24, Lane 251, Sec. 5, Nanjing E. Rd.<br>Songshan District, Taipei City 105, Taiwan, R.O.C. |
| (2) | Ching-Jung Yang | of | No.2, Aly. 1, Ln. 37, Ziqiang St.<br>Pingzhen City, Taoyuan County 324, Taiwan, R.O.C.                      |
| (3) | Hsien-Wei Chen  | of | No. 57, sueitang Street<br>Sinying City, Tainan County 730, Taiwan, R.O.C.                                  |
| (4) | Hsin-Yu Pan     | of | 3F, No. 23, Lane 1, Sec. 4, Cheng-Teg Road<br>Taipei, Taiwan, R.O.C.  |
| (5) | Chao-Wen Shih   | of | 7F, No. 6, Lane 16, Wenhua Street<br>Zhubei City, Hsinchu County 302, Taiwan, R.O.C.                        |

have invented certain improvements in

**REINFORCEMENT STRUCTURE FOR FLIP-CHIP PACKAGING**

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 March 17, 2011 and assigned application number 13/050,125; 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.

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: Yu-Wen Liu

Residence Address: 4F., No.6, Alley 24, Lane 251, Sec. 5, Nanjing E. Rd.  
Songshan District, Taipei City 105, Taiwan, R.O.C.

Dated: 2011, 3, 22

Yu Wen Liu  
Inventor Signature

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Inventor Name: Ching-Jung Yang

Residence Address: No.2, Aly. 1, Ln. 37, Ziqiang St.  
Pingzhen City, Taoyuan County 324, Taiwan, R.O.C.

Dated: 2011.3.22

Ching Jung Yang  
Inventor Signature

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Inventor Name: Hsien-Wei Chen

Residence Address: No. 57, sueitang Street  
Sinying City, Tainan County 730, Taiwan, R.O.C.

Dated: 2011, 3, 22

Hsien-Wei Chen  
Inventor Signature

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Inventor Name: Hsin-Yu Pan  
Residence Address: 3F, No. 23, Lane 1, Sec. 4, Cheng-Teg Road  
Taipei, Taiwan, R.O.C.

Dated: 3/22/2011

  
Inventor Signature

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Inventor Name: Chao-Wen Shih  
Residence Address: 7F, No. 6, Lane 16, Wenhua Street  
Zhubei City, Hsinchu County 302, Taiwan, R.O.C.

Dated: 2011.3.22

  
Inventor Signature