

## 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>Shu-Ting Tsai</td> <td>07/03/2013</td> </tr> <tr> <td>Jeng-Shyan Lin</td> <td>07/03/2013</td> </tr> <tr> <td>Dun-Nian Yaung</td> <td>07/03/2013</td> </tr> <tr> <td>Jen-Cheng Liu</td> <td>07/03/2013</td> </tr> <tr> <td>Feng-Chi Hung</td> <td>07/03/2013</td> </tr> <tr> <td>Chih-Hui Huang</td> <td>07/03/2013</td> </tr> <tr> <td>Sheng-Chau Chen</td> <td>07/03/2013</td> </tr> <tr> <td>Shih Pei Chou</td> <td>07/03/2013</td> </tr> <tr> <td>Chia-Chieh Lin</td> <td>07/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	Shu-Ting Tsai	07/03/2013	Jeng-Shyan Lin	07/03/2013	Dun-Nian Yaung	07/03/2013	Jen-Cheng Liu	07/03/2013	Feng-Chi Hung	07/03/2013	Chih-Hui Huang	07/03/2013	Sheng-Chau Chen	07/03/2013	Shih Pei Chou	07/03/2013	Chia-Chieh Lin	07/03/2013
Name	Execution Date																				
Shu-Ting Tsai	07/03/2013																				
Jeng-Shyan Lin	07/03/2013																				
Dun-Nian Yaung	07/03/2013																				
Jen-Cheng Liu	07/03/2013																				
Feng-Chi Hung	07/03/2013																				
Chih-Hui Huang	07/03/2013																				
Sheng-Chau Chen	07/03/2013																				
Shih Pei Chou	07/03/2013																				
Chia-Chieh Lin	07/03/2013																				
<b>RECEIVING PARTY DATA</b>																					
Name:	Taiwan Semiconductor Manufacturing Company, Ltd.																				
Street Address:	No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park																				
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>13937055</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13937055																
Property Type	Number																				
Application Number:	13937055																				
<b>CORRESPONDENCE DATA</b>																					
Fax Number:	2142000853																				
<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 IP Section																				
Address Line 1:	2323 Victory Avenue																				
Address Line 2:	Suite 700																				

OP \$40.00 13937055

Address Line 4: Dallas, TEXAS 75219

ATTORNEY DOCKET NUMBER: 24061.2470

NAME OF SUBMITTER: Linda Ingram

Signature: /Linda Ingram/

Date: 07/08/2013

**Total Attachments: 4**

source=2470\_Assignment#page1.tif

source=2470\_Assignment#page2.tif

source=2470\_Assignment#page3.tif

source=2470\_Assignment#page4.tif

**ASSIGNMENT**

WHEREAS, we,

- |     |                 |    |  |
|-----|-----------------|----|--|
| (1) | Shu-Ting Tsai   | of | No. 27, Baoding Street Sanmin District<br>Kaohsiung City 807, Taiwan R.O.C.                            |
| (2) | Jeng-Shyan Lin  | of | No. 44, Alley 116, Lane 175, Section 1<br>Datong Road, East District<br>Tainan City 701, Taiwan R.O.C. |
| (3) | Dun-Nian Yaung  | of | 4F, No. 15, Lane 130, Wansheng Street<br>Wunshan District<br>Taipei City 116, Taiwan R.O.C.            |
| (4) | Jen-Cheng Liu   | of | No. 17, Lane 48, Lane 240, Guo-Seng Street<br>Hsin-Chu City, Taiwan R.O.C.                             |
| (5) | Feng-Chi Hung   | of | Floor 10, No. 535-2, Bo-Ai Street<br>Chu-Bei City, Hsin-Chu County<br>Taiwan R.O.C.                    |
| (6) | Chih-Hui Huang  | of | No. 43, Alley 30, Lane 165, Yong-An Road<br>Yongkang City, Tainan County 710<br>Taiwan R.O.C.          |
| (7) | Sheng-Chau Chen | of | No. 13, Lane 37, Songpu Road<br>Niaosong District<br>Kaohsiung City 833, Taiwan R.O.C.                 |
| (8) | Shih Pei Chou   | of | No. 6, Alley 26, Lane 167, Tong-An Road<br>Annan District<br>Tainan City 70952, Taiwan R.O.C.          |
| (9) | Chia-Chieh Lin  | of | 6F, No 79, Haiyang 1st Road<br>Fengshan District<br>Kaohsiung City 830, Taiwan R.O.C.                  |

have invented certain improvements in

**INTERCONNECT STRUCTURE FOR STACKED DEVICE**

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 July 8, 2013, and assigned application number 13/937,055; 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.);

Docket No.: 2013-0229/24061.2470  
Customer No.: 000042717

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.

---

Inventor Name: Shu-Ting Tsai

Residence Address: No. 27, Baoding Street, Sanmin District  
Kaohsiung City 807 Taiwan R.O.C.

Dated: 2013.07.03

Shu-Ting Tsai  
Inventor Signature

---

Inventor Name: Jeng-Shyan Lin

Residence Address: No. 44, Alley 116, Lane 175, Section 1, Datong Road, East District  
Tainan City 701, Taiwan R.O.C.

Dated: 2013.07.03

Jeng-Shyan Lin  
Inventor Signature

Docket No.: 2013-0229/24061.2470  
Customer No.: 000042717

---

Inventor Name: Dun-Nian Yaung  
 Residence Address: 4F, No. 15, Lane 130, Wansheng Street, Wunshan District  
 Taipei City 116, Taiwan R.O.C.  
 Dated: 7/3 '13 Dun-Nian Yaung  
 Inventor Signature

---

Inventor Name: Jen-Cheng Liu  
 Residence Address: No. 17, Lane 48, Lane 240, Guo-Seng Street  
 Hsin-Chu City Taiwan R.O.C.  
 Dated: 7/3 '13 Jen-Cheng Liu  
 Inventor Signature

---

Inventor Name: Feng-Chi Hung  
 Residence Address: Floor 10, No. 535-2, Bo-Ai Street  
 Chu-Bei City, Hsin-Chu County Taiwan R.O.C.  
 Dated: 2013.7.3 Feng-Chi Hung  
 Inventor Signature

---

Inventor Name: Chih-Hui Huang  
 Residence Address: No. 43, Alley 30, Lane 165, Yong-An Road  
 Yongkang City, Tainan County 710, Taiwan R.O.C.  
 Dated: 2013.7.3 Chih-Hui Huang  
 Inventor Signature

---

Inventor Name: Sheng-Chau Chen  
 Residence Address: No. 13, Lane 37, Songpu Road, Niasong District  
 Kaohsiung City 833, Taiwan R.O.C.  
 Dated: 2013.7.3 Sheng-Chau Chen  
 Inventor Signature

---

Docket No.: 2013-0229/24061.2470  
Customer No.: 000042717

---

Inventor Name: Shih Pei Chou

Residence Address: No. 6, Alley 26, Lane 167, Tong-An Road, Annan District  
Tainan City 70952, Taiwan R.O.C.

Dated: 2013. 7. 3.

Shih Pei Chou  
Inventor Signature

---

Inventor Name: Chia-Chieh Lin

Residence Address: 6F, No 79, Haiyang 1st Road, Fengshan District  
Kaohsiung City 830, Taiwan R.O.C.

Dated: 2013. 07. 03

Chia chieh Lin  
Inventor Signature