

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2572033

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>BOR-PING JANG</td> <td>09/26/2013</td> </tr> <tr> <td>CHIEN LING HWANG</td> <td>09/26/2013</td> </tr> <tr> <td>HSIN-HUNG LIAO</td> <td>09/26/2013</td> </tr> <tr> <td>YEONG-JYH LIN</td> <td>09/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	BOR-PING JANG	09/26/2013	CHIEN LING HWANG	09/26/2013	HSIN-HUNG LIAO	09/26/2013	YEONG-JYH LIN	09/26/2013
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<table border="1"> <tr> <td>Name:</td> <td>TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.</td> </tr> <tr> <td>Street Address:</td> <td>NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK</td> </tr> <tr> <td>City:</td> <td>HSINCHU</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> </table>		Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	Street Address:	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK	City:	HSINCHU	State/Country:	TAIWAN		
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (949)743-8963</p> <p>Phone: 949 387 2885</p> <p>Email: ahong@wpatca.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: WPAT, PC INTELLECTUAL PROPERTY ATTORNEYS</p> <p>Address Line 1: 1100 QUAIL STREET, SUITE 202</p> <p>Address Line 4: NEWPORT BEACH, CALIFORNIA 92660</p>											
ATTORNEY DOCKET NUMBER:	18506-650										
NAME OF SUBMITTER:	ANTHONY KING										
Signature:	/Anthony King/										
Date:	10/09/2013										
<p>Total Attachments: 2</p> <p>source=US2813-ASSG#page1.tif</p> <p>source=US2813-ASSG#page2.tif</p>											

OP \$40.00 14049898

ASSIGNMENT

WHEREAS, I(we), JANG BOR-PING, HWANG CHIEN LING, LIAO, HSIN-HUNG, and LIN, YEONG-JYH, whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF

(hereinafter referred to as the INVENTION) for which an application for United States Letters Patent /Utility Patent is executed on even date herewith unless at least one of the following is checked:

- ☐ United States Design Patent was
☐ executed on:
☐ filed on: Serial No.:
☐ established by PCT International Patent Application No.: filed: designating the
 United States of America
☐ issued on _____ as U.S. Patent No.: _____

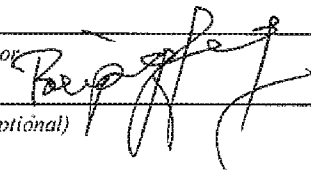
WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD., whose post office address is NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States and its territorial possessions;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we), ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application for the full term or terms for which the same may be granted, including all priority rights under any International Convention.

ASSIGNOR further covenants that no assignments, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the INVENTION that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance, litigation and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

Assignor Name JANG, BOR-PING	Address 5F, NO.41, CHUANG-JIN 5TH STREET, CHU-BEI, HSIN-CHU COUNTY, TAIWAN (R.O.C.)
Signature of Assignor 	Date of Signature 09/26/2013
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name HWANG, CHIEN LING	Address 6F-1, NO.5, 271 AVENUE, WULING RD., HSINCHU CITY, TAIWAN (R.O.C.)
Signature of Assignor <i>Chien Ling Hwang</i>	Date of Signature 2013.9.26.
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LIAO, HSIN-HUNG	Address 1F., NO.4, SEC. 2, ACADEMIA RD., NANGANG DIST., TAIPEI CITY 115, TAIWAN (R.O.C.)
Signature of Assignor <i>Hsin-Hung Liao</i>	Date of Signature 9.26.2013
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LIN, YEONG-JYH	Address NO.3, ALY. 25, LN. 88, MINQUAN RD., CAOTUN TOWNSHIP, NANTOU COUNTY 542, TAIWAN (R.O.C.)
Signature of Assignor <i>Yeong-Jyh Lin</i>	Date of Signature 9/26/2013
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)