

PATENT ASSIGNMENT COVER SHEET

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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>KUAN-LIN HO</td> <td>08/22/2013</td> </tr> <tr> <td>CHIN-LIANG CHEN</td> <td>08/22/2013</td> </tr> <tr> <td>WEI-TING LIN</td> <td>08/22/2013</td> </tr> <tr> <td>YU-CHIH LIU</td> <td>08/22/2013</td> </tr> <tr> <td>SHIH-YEN LIN</td> <td>08/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	KUAN-LIN HO	08/22/2013	CHIN-LIANG CHEN	08/22/2013	WEI-TING LIN	08/22/2013	YU-CHIH LIU	08/22/2013	SHIH-YEN LIN	08/22/2013
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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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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:	18506-631												
NAME OF SUBMITTER:	ANTHONY KING												
Signature:	/Anthony King/												

Date:

10/07/2013

Total Attachments: 2

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US ONLY

ASSIGNMENT

WHEREAS, I(we), HO, KUAN-LIN, CHEN, CHIN-LIANG, LIN, WEI-TING, LIU, YU-CHIH, and LIN, SHIH-YEN, whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

**APPARATUS FOR MANUFACTURING A SEMICONDUCTOR DEVICE AND METHOD
OF MANUFACTURING A SEMICONDUCTOR DEVICE**

(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: 2013/08/29 Serial No.: 14/013,971
☐ 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 HO, KUAN-LIN	Address POST OFFICE BOX 2-130 HSINCHU, HSINCHU CITY 30099, TAIWAN (R.O.C.)
Signature of Assignor HO, KUAN-LIN	Date of Signature 2013.08.22
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name CHEN, CHIN-LIANG	Address NO.379, SONGJIANG ST., SANMIN DIST., KAOHSIUNG CITY 807, TAIWAN (R.O.C.)
Signature of Assignor <i>Chen, Chin Liang</i>	Date of Signature <i>2013.08.22</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LIN, WEI-TING	Address 2F., NO.4, ALX. 2, LN. 668, MINZU E. RD., SONGSHAN DIST., TAIPEI CITY 105, TAIWAN (R.O.C.)
Signature of Assignor <i>Lin wei ting</i>	Date of Signature <i>2013.08.22</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LIU, YU-CHIH	Address 2F., NO.8, LN. 71, SEC. 2, ANHE RD., DAAN DIST., TAIPEI CITY 106, TAIWAN (R.O.C.)
Signature of Assignor <i>Yu Chih Liu</i>	Date of Signature <i>2013.08.22</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LIN, SHIH-YEN	Address 4F., NO.414, BIHUA ST., SANCHONG DIST., NEW TAIPEI CITY 241, TAIWAN (R.O.C.)
Signature of Assignor <i>LIN, SHIH-YEN</i>	Date of Signature <i>2013.08.22</i>
Name of Witness (optional)	Name of Witness (optional)
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