

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>MENG-KAI HSU</td> <td>12/06/2013</td> </tr> <tr> <td>CHI-YEH YU</td> <td>12/06/2013</td> </tr> <tr> <td>YUAN-TE HOU</td> <td>12/06/2013</td> </tr> <tr> <td>WEN-HAO CHEN</td> <td>12/06/2013</td> </tr> </tbody> </table>		Name	Execution Date	MENG-KAI HSU	12/06/2013	CHI-YEH YU	12/06/2013	YUAN-TE HOU	12/06/2013	WEN-HAO CHEN	12/06/2013
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CHI-YEH YU	12/06/2013										
YUAN-TE HOU	12/06/2013										
WEN-HAO CHEN	12/06/2013										
RECEIVING PARTY DATA											
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.										
Street Address:	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK										
City:	HSINCHU										
State/Country:	TAIWAN										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14103558</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14103558						
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Application Number:	14103558										
CORRESPONDENCE DATA											
Fax Number:	(949)743-8963										
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
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NAME OF SUBMITTER:	ANTHONY KING										
Signature:	/Anthony King/										
Date:	12/11/2013										
Total Attachments: 2 source=US2830-ASSG#page1.tif source=US2830-ASSG#page2.tif											

OP \$40.00 14103558

US ONLY

ASSIGNMENT

2013-0910

WHEREAS, I(we), HSU, MENG-KAI, YU, CHI-YEH, HOU, YUAN-TE and CHEN, WEN-HAO, whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

WIRE ROUTING

(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 HSU, MENG-KAI	Address NO.201, XINZHUANG RD., XINFENG TOWNSHIP, HSINCHU COUNTY 304, TAIWAN (R.O.C.)
Signature of Assignor <i>Meng-Kai Hsu</i>	Date of Signature 2013 / 12 / 6
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name YU, CHI-YEH	Address 6F., NO.81, SINJHUANG ST., EAST DIST., HSINCHU CITY 300, TAIWAN (R.O.C.)
Signature of Assignor <i>Chi-yeh Yu</i>	Date of Signature <i>2013/12/6</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name HOU, YUAN-TE	Address NO.16, ALLEY 3, LANE 61, WULING RD., NORTH DISTRICT, HSINCHU CITY 300, TAIWAN (R.O.C.)
Signature of Assignor <i>Hou Yuan-Te</i>	Date of Signature <i>2013.12.6</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name CHEN, WEN-HAO	Address 11F-1, NO. 99, JINGFU STREET., HSIN-CHU CITY, TAIWAN (R.O.C.)
Signature of Assignor <i>Wen Hao Chen</i>	Date of Signature <i>12.6.2013</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)