

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>MONSEN LIU</td> <td>01/18/2013</td> </tr> <tr> <td>LAI WEI CHIH</td> <td>01/18/2013</td> </tr> <tr> <td>CHUNG-HAO TSAI</td> <td>01/18/2013</td> </tr> <tr> <td>JENG-SHIEN HSIEH</td> <td>01/18/2013</td> </tr> <tr> <td>EN-HSIANG YEH</td> <td>01/18/2013</td> </tr> <tr> <td>CHUEI-TANG WANG</td> <td>01/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	MONSEN LIU	01/18/2013	LAI WEI CHIH	01/18/2013	CHUNG-HAO TSAI	01/18/2013	JENG-SHIEN HSIEH	01/18/2013	EN-HSIANG YEH	01/18/2013	CHUEI-TANG WANG	01/18/2013
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CHUEI-TANG WANG	01/18/2013														
RECEIVING PARTY DATA															
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.														
Street Address:	NO. 8, LI-HSIN RD. 6														
Internal Address:	SCIENCE-BASED INDUSTRIAL PARK														
City:	HSIN-CHU														
State/Country:	TAIWAN														
Postal Code:	300-77														
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>13691250</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13691250										
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Application Number:	13691250														
CORRESPONDENCE DATA															
Fax Number:	(972)732-9218														
Phone:	972-732-1001														
Email:	docketing@slater-matsil.com														
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>															
Correspondent Name:	SLATER & MATSIL, L.L.P.														
Address Line 1:	17950 PRESTON ROAD, SUITE 1000														
Address Line 4:	DALLAS, TEXAS 75252														
ATTORNEY DOCKET NUMBER:	TSM12-0828														

CH \$40.00 13691250

NAME OF SUBMITTER:	WENDY SAXBY
Signature:	/Wendy Saxby/
Date:	10/16/2013
Total Attachments: 2 source=4346927#page1.tif source=4346927#page2.tif	

ATTORNEY DOCKET NO.
TSM12-0828

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	<i>Embedding Low-K Materials in Antennas</i>			
SIGNATURE OF INVENTOR AND NAME	<i>Monsen Liu</i> Monsen Liu	<i>Lai Wei chih</i> Lai Wei Chih	<i>Chung Hao Tsai</i> Chung-Hao Tsai	<i>Jeng-Shien Hsieh</i> Jeng-Shien Hsieh
DATE	<i>01/18/2013</i>	<i>01/18/2013</i>	<i>01/18/2013</i>	<i>01/18/2013</i>
RESIDENCE (City, County, State)	Zhudong Township, Taiwan	Hsin-Chu, Taiwan	Huatan Township, Taiwan	Kaohsiung, Taiwan

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

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TITLE OF INVENTION	<i>Embedding Low-K Materials in Antennas</i>		
SIGNATURE OF INVENTOR AND NAME	<i>En-Hsiang Yeh</i> En-Hsiang Yeh	<i>Chuei-Tang Wang</i> Chuei-Tang Wang	
DATE	<i>01/18/2013</i>	<i>01/18/2013</i>	
RESIDENCE (City, County, State)	Hsin-Chu, Taiwan	Taichung City, Taiwan	