

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>CHIA-JUNG HSU</td> <td>11/18/2013</td> </tr> <tr> <td>YUN-LUNG HO</td> <td>12/11/2013</td> </tr> <tr> <td>NENG-KUO CHEN</td> <td>11/18/2013</td> </tr> <tr> <td>WEN-FENG CHUEH</td> <td>11/29/2013</td> </tr> <tr> <td>SEY-PING SUN</td> <td>11/28/2013</td> </tr> <tr> <td>SONG-YUAN CHANG</td> <td>12/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	CHIA-JUNG HSU	11/18/2013	YUN-LUNG HO	12/11/2013	NENG-KUO CHEN	11/18/2013	WEN-FENG CHUEH	11/29/2013	SEY-PING SUN	11/28/2013	SONG-YUAN CHANG	12/11/2013
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>NO. 8, LI-HSIN RD. 6</td> </tr> <tr> <td>Internal Address:</td> <td>HSIN-CHU SCIENCE PARK</td> </tr> <tr> <td>City:</td> <td>HSIN-CHU</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> <tr> <td>Postal Code:</td> <td>300-77</td> </tr> </table>		Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.	Street Address:	NO. 8, LI-HSIN RD. 6	Internal Address:	HSIN-CHU SCIENCE PARK	City:	HSIN-CHU	State/Country:	TAIWAN	Postal Code:	300-77		
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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>14078797</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14078797										
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Application Number:	14078797														
CORRESPONDENCE DATA															
Fax Number:	(216)502-0601														
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ATTORNEY DOCKET NUMBER:	TSMCP290US														
PATENT															

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NAME OF SUBMITTER:	THOMAS G. ESCHWEILER
Signature:	/Thomas G. Eschweiler/
Date:	12/19/2013
<p>Total Attachments: 9 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif</p>	

U.S. Patent Appln. No. 14/078,797
Filing Date: November 13, 2013

TSMC Docket No. TSMC2013-0385
Docket No. TSMCP290US

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

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Docket No. TSMCP290US

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Assignee:

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AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled
**"CHEMICAL MECHANICAL POLISHING METHOD USING SLURRY
COMPOSITION CONTAINING N-OXIDE COMPOUND"** for which:

a non-provisional application for United States Letters Patent:

☐ was executed on even date preparatory to filing (each inventor should sign this
Assignment on the same day as he/she signs the Declaration and Power of
Attorney); or

☒ was filed on November 13, 2013 and accorded U.S. Serial No. 14/078,797; or

☐ I hereby authorize and request my attorney associated with Customer No.
107476, to insert on the designated lines below the filing date and application
number of said application when known:

U.S. Serial No. _____

filed on _____

WHEREAS, ASSIGNEES (listed above), corporations of the Republic of China are
desirous of acquiring the entire right, title and interest in and to the invention and in and to

any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto the ASSIGNEES its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of the ASSIGNEES and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by the ASSIGNEES and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to the ASSIGNEES. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

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✓ 2013/11/18
Date

✓ Chia-Jung Hsu
Name 1st Inventor Chia-Jung Hsu

U.S. Patent Appln. No. 14/078,797
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✓ 2013.12.11
Date

✓ Yun-Lung Ho
Name 2nd Inventor Yun-Lung Ho

U.S. Patent Appln. No. 14/078,797
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✓ 2013/11/18
Date

✓ Neng-Kuo Chen
Name 3rd Inventor Neng-Kuo Chen

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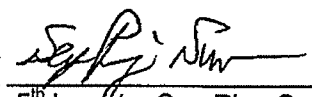
✓ 2013/11/29
Date

✓ Wen - Feng Chueh
Name 4th Inventor Wen-Feng Chueh

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✓ 2013. 11. 26
Date

✓ 
Name 5th Inventor Sey-Ping Sun

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✓ 12-11-2013
Date

✓ 
Name 6th Inventor Song-Yuan Chang