

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>YU-CHUNG CHEN</td><td>04/17/2013</td></tr><tr><td>SHIN-CHANG TSAI</td><td>04/17/2013</td></tr><tr><td>TA-HUNG YANG</td><td>04/17/2013</td></tr></tbody></table>	Name	Execution Date	YU-CHUNG CHEN	04/17/2013	SHIN-CHANG TSAI	04/17/2013	TA-HUNG YANG	04/17/2013	
Name	Execution Date								
YU-CHUNG CHEN	04/17/2013								
SHIN-CHANG TSAI	04/17/2013								
TA-HUNG YANG	04/17/2013								
RECEIVING PARTY DATA									
Name:	MACRONIX INTERNATIONAL CO., LTD.								
Street Address:	16 LI-HSIN ROAD								
Internal Address:	SCIENCE-BASED INDUSTRIAL 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>13886631</td></tr></tbody></table>	Property Type	Number	Application Number:	13886631					
Property Type	Number								
Application Number:	13886631								
CORRESPONDENCE DATA									
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NAME OF SUBMITTER:	Kenton R. Mullins								
Signature:	/krm/								
Date:	05/03/2013								
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif									

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PATENT  
REEL: 030346 FRAME: 0155

WHEN RECORDED, RETURN TO:

Kenton R. Mullins  
Stout, Uxa, Buyan & Mullins, LLP  
4 Venture, Suite 300  
Irvine, CA 92618

**ASSIGNMENT**

WHEREAS, I, Yu-Chung Chen, Shin-Chang Tsai, and Ta-Hung Yang, have invented certain new and useful improvements in:

**MEASUREMENT OF LINE-EDGE-ROUGHNESS AND  
LINE-WIDTH-ROUGHNESS ON PRE-LAYERED STRUCTURES**

said inventor having executed application papers for United States Letters Patent thereon on the day corresponding to the filing date of the above-captioned, by title and docket number, patent application;

WHEREAS, Macronix International Co., Ltd., hereinafter called Assignee, having a place of business at No. 16, Li-Hsin Road, Science-Based Industrial Park, Hsinchu, Taiwan (R.O.C.), is desirous of acquiring the entire and exclusive right, title and interest in and to the aforesaid invention, and in and to any Letters Patent which may be granted and issued in the United States and throughout the world therefor

NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for and in consideration of the sum of ONE DOLLAR (\$1) paid to us in hand paid by Assignee, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, by these presents do hereby sell, assign and transfer unto Assignee, its successors and assigns, the full and exclusive right, title and interest in and to the said invention, and in and to any Letters Patent which may be granted and issued in the United States and throughout the world therefor, and in any and all countries foreign thereto (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), in and to the said invention as described in said applications, and in and to all Letters Patent granted on all divisions, reissues and continuations thereof, and I agree that, regardless of whether I have left the employee of or have undergone any change of relationship with Assignee and at a compensation rate last received by me from Assignee for similar efforts, I will communicate or provide to said Assignee, or its successors, consulting services including the provision of any and all facts and relevant information and materials known to me regarding said invention whenever requested, and will testify in any legal proceeding, sign all lawful papers, execute all divisional, reissue and continuation applications, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain and enforce proper patent protection for said invention in all countries;

AND, I HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue all Letters Patents on said invention or resulting therefrom to said Assignee, as assignee of my entire right, title and interest, and I covenant that I have full right so to do.

This instrument constitutes the entire agreement of the parties and supersedes all prior communications, understandings and agreements relating to the subject matter hereof, whether oral or written.

IN WITNESS WHEREOF, I have executed this instrument at \_\_\_\_\_

\_\_\_\_\_

this 17 day of April, 2013.

Witness:  
(print name ) \_\_\_\_\_

Yu-Chung Chen  
Yu-Chung Chen

IN WITNESS WHEREOF, I have executed this instrument at \_\_\_\_\_

\_\_\_\_\_

this 17 day of April, 2013.

Witness:  
(print name ) \_\_\_\_\_

Shin-Chang Tsai  
Shin-Chang Tsai

IN WITNESS WHEREOF, I have executed this instrument at \_\_\_\_\_

\_\_\_\_\_

this 17 day of April, 2013.

Witness:  
(print name ) \_\_\_\_\_

Ta-Hung Yang  
Ta-Hung Yang