

PATENT ASSIGNMENT

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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>Shih-Chang Huang</td> <td>07/17/2012</td> </tr> <tr> <td>Han-Sung Chen</td> <td>07/17/2012</td> </tr> </tbody> </table>		Name	Execution Date	Shih-Chang Huang	07/17/2012	Han-Sung Chen	07/17/2012
Name	Execution Date						
Shih-Chang Huang	07/17/2012						
Han-Sung Chen	07/17/2012						
RECEIVING PARTY DATA							
Name:	Macronix International Co., Ltd.						
Street Address:	No. 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>13551485</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13551485		
Property Type	Number						
Application Number:	13551485						
CORRESPONDENCE DATA							
Fax Number:	(650)712-0263						
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Correspondent Name:	MACRONIX C/O HAYNES BEFFEL & WOLFELD LLP						
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Address Line 2:	Attn: James F. Hann						
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ATTORNEY DOCKET NUMBER:	MXIC 2016-1						
NAME OF SUBMITTER:	James F. Hann						
Total Attachments: 2 source=00332251#page1.tif source=00332251#page2.tif							

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(P1010022US)

**JOINT TO CORPORATE
ASSIGNMENT**

WHEREAS, the undersigned,

- | | |
|---|--|
| <p>(1) Shih-Chang Huang 黃世昌
No.16-14, Cianliao Village
Magong
Penghu 880 Taiwan</p> | <p>(2) Han-Sung Chen 陳漢松
No. 10, Lane 452
Jhongheng Rd.
Hsinchu 300 Taiwan</p> |
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hereinafter termed "Inventors," have invented certain new and useful improvements in

MEMORY WITH DYNAMIC ERROR DETECTION AND CORRECTION

and have filed a non-provisional application for a United States patent disclosing and identifying the above invention on _____ as Application No. _____, OR are filing such an application herewith, and have executed an oath or declaration of inventorship for such non-provisional application on:

(1) the 17th day of July, 2012;

(2) the 17th day of July, 2012.

(hereinafter termed "application"); and

WHEREAS, Macronix International Co., Ltd., a corporation of Taiwan, having a place of business at No. 16, Li-Hsin Road, Science-Based Industrial Park, Hsinchu, Taiwan (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventor jointly or severally (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby jointly and severally sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a

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divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, jointly and severally, the inventors' respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that said inventor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. Said Inventors hereby authorize any of the following attorneys and agents: Mark A. Haynes, Ernest J. Beffel, Jr., Warren S. Wolfeld, James F. Hann, Kenta Suzue, Yiding Wu and Ryan Davis to (a) insert the date of execution of the oath or declaration of inventorship, and (b) insert the application number and filing date of this application when known.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the date written below.

Shih-Chang Huang
SHIH-CHANG HUANG 黃世昌

Date: 2012.7.17

Han-Sung Chen
HAN-SUNG-CHEN 陳漢松

Date: 2012.7.17