

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Hsiang-Lan LUNG	03/24/2010
Hang-Ting LUE	04/29/2010
Yen-Hao SHIH	04/29/2010
Erh-Kun LAI	05/17/2010
Ming-Hsiu LEE	05/17/2010
Tien-Yen WANG	05/17/2010
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	
Property Type	Number
Application Number:	12785291
CORRESPONDENCE DATA	
Fax Number:	(650)712-0263
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	650-712-0340
Email:	kmarley@hmbay.com
Correspondent Name:	MACRONIX C/O HAYNES BEFFEL & WOLFELD LLP
Address Line 1:	P. O. BOX 366
Address Line 2:	Mark Haynes
Address Line 4:	HALF MOON BAY, CALIFORNIA 94019
ATTORNEY DOCKET NUMBER:	MXIC 1914-1

OP \$40.00 12785291

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**PATENT
 REEL: 024426 FRAME: 0047**

NAME OF SUBMITTER:

Mark A. Haynes

Total Attachments: 6

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MXIC 1914-1
(P980050US)

ASSIGNMENT

WHEREAS, the undersigned,

- | | |
|--|---|
| (1) Hsiang-Lan Lung 龍翔瀾
1401 Hunters Run
Dobbs Ferry, NY 10522 | (2) Hang-Ting LUE 呂函庭
East Yuan 19
Nat'l Tsing-Hua University
Hsinchu 300 TW |
| (3) Yen-Hao Shih 施彥豪
24 Town Green Drive
Elmsford, NY 10523 | (4) Erh-Kun Lai 賴二崑
48 Town Green Drive
Elmsford, NY 10523 |
| (5) Ming Hsiu Lee 李明修
17F.-2, No. 82, Dasyue Road
Hsinchu 300 TW | (6) Tien-Yen Wang 王典彥
1F., No. 18, Alley 37
Lane 197, Yongfu St.
Sanchong
Taipei 241 TW |

hereinafter termed "Inventors, have invented certain new and useful improvements in

3D TWO-BIT-PER-CELL NAND FLASH MEMORY

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 _____ day of _____, 2010;
- (2) the _____ day of _____, 2010;
- (3) the _____ day of _____, 2010;
- (4) the _____ day of _____, 2010;
- (5) the _____ day of _____, 2010;
- (6) the _____ day of _____, 2010;

(hereinafter termed "applications"); and

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MXIC 1914-1
(P980050US)

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 applications and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors 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 applications 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 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 Inventors 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 inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

To: Mark

MXIC 1914-1
(P980050US)

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, Bill Kennedy,
Kenta Suzue, 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.

Hsiang Lan Lung
HSIANG-LAN LUNG 龍翔瀾

Date: 3-24-2010

HANG-TING LUE 呂函庭

Date: _____

YEN-HAO SHIH 施彥豪

Date: _____

ERH-KUN LAI 賴二琨

Date: _____

MING HSIU LEE 李明修

Date: _____

TIEN-YEN WANG 王典彥

Date: _____

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said Assignee as of the date written below.

HSIANG-LAN LUNG 龍翔瀾

Date: _____

Hang Ting Lue

HANG-TING LUE 呂函庭

Date: *April 29, 2010*

Yen-Hao Shih

YEN-HAO SHIH 施彥豪

Date: *April 29, 2010*

ERH-KUN LAI 賴二現

Date: _____

MING HSIU LEE 李明修

Date: _____

TIEN-YEN WANG 王典彥

Date: _____

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said Assignee as of the date written below.

Date: _____
HSIANG-LAN LUNG 龍翔瀾

Date: _____
HANG-TING LUE 呂函庭

Date: _____
YEN-HAO SHIH 施彥豪

Erh-Kun Lai 
Date: *May 17, 2010*

ERH-KUN LAI 賴二琨

Date: *May 17, 2010*

Date: _____
MING HSIU LEE 李明修

Date: _____
TIEN-YEN WANG 王典添

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(P980050US)

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said Assignee as of the date written below.

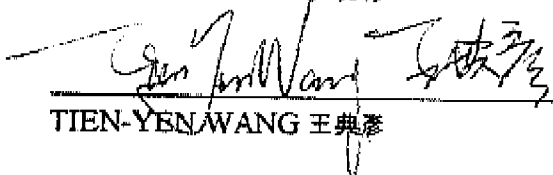
Date: _____
HSIANG-LAN LUNG 龍翔瀾

Date: _____
HANG-TING LUE 呂函庭

Date: _____
YEN-HAO SHIH 施彥豪

Date: _____
ERH-KUN LAI 賴二琨

Date: _____
MING HSIU LEE 李明修


Date: 5/17/2010
TIEN-YEN WANG 王典彥