

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>Wen Chiao Ho</td><td>10/12/2006</td></tr><tr><td>Chin Hung Chang</td><td>10/12/2006</td></tr><tr><td>Cheng Chi Liu</td><td>10/12/2006</td></tr><tr><td>Kuen Long Chang</td><td>10/12/2006</td></tr><tr><td>Chun Hsiung Hung</td><td>10/12/2006</td></tr></tbody></table>	Name	Execution Date	Wen Chiao Ho	10/12/2006	Chin Hung Chang	10/12/2006	Cheng Chi Liu	10/12/2006	Kuen Long Chang	10/12/2006	Chun Hsiung Hung	10/12/2006	
Name	Execution Date												
Wen Chiao Ho	10/12/2006												
Chin Hung Chang	10/12/2006												
Cheng Chi Liu	10/12/2006												
Kuen Long Chang	10/12/2006												
Chun Hsiung Hung	10/12/2006												
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>11551974</td></tr></tbody></table>	Property Type	Number	Application Number:	11551974									
Property Type	Number												
Application Number:	11551974												
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: phurley@hmbay.com													
Correspondent Name: Mark A. Haynes													
Address Line 1: Haynes Beffel & Wolfeld LLP													
Address Line 2: PO Box 366													
Address Line 4: Half Moon Bay, CALIFORNIA 94019													
ATTORNEY DOCKET NUMBER:	MXIC 1724-1												
NAME OF SUBMITTER:	Mark A. Haynes												

CH \$40.00 11551974

500168410

PATENT
REEL: 018424 FRAME: 0629

Total Attachments: 3

source=2006-10-23 MXIC 1724-1 Assignment#page1.tif

source=2006-10-23 MXIC 1724-1 Assignment#page2.tif

source=2006-10-23 MXIC 1724-1 Assignment#page3.tif

JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

- | | |
|---|--|
| (1) WEN-CHIAO HO 何文喬
No. 220, Min-Sheng St.
Tainan, Taiwan, R.O.C | (2) CHIN-HUNG CHANG 張欽端
No. 10, Alley 12, Lane 313
Uen-Shian Road
Tainan, Taiwan, R.O.C |
| (3) CHENG-CHI LIU 劉正淇
No.14, Lane 112, Wenhua St.
Shulin City, Taipei County 238
Taiwan, R.O.C | (4) KUEN-LONG CHANG 張坤龍
4F No. 21, Alley 23, Lane 109
Pao-Yi Road
Taipei, Taiwan, R.O.C |
| (5) CHUN-HSIUNG HUNG 洪俊雄
9F-2, No. 86, University Road
Hsinchu, Taiwan, R.O.C | |

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

**PARALLEL THRESHOLD VOLTAGE MARGIN SEARCH FOR MLC MEMORY
APPLICATION**

and

[] have filed a non-provisional application for a United States patent disclosing and identifying the above invention on 10-23-06 as Application No. 11/551,974.

[X] are filing a non-provisional application herewith, and

[X] have executed an oath or declaration of inventorship for such non-provisional application on:

- (1) the 12th day of October, 2006;
- (2) the 12th day of October, 2006;
- (3) the 12th day of October, 2006;
- (4) the 15th day of October, 2006;
- (5) the 12th day of October, 2006

(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 R.O.C.** (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 Inventors (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 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 (including patent, utility model and industrial design) on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise, including the right to claim priority from the applications; (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 extension of any of said patents.

2. Said Inventors hereby 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 application; (c) for filing and prosecuting substitute, divisional, continuing or additional application covering said invention; (d) for filing and prosecuting application 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 application 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 Inventors 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, the Inventors' respective heirs, legal representatives and assigns.

4. Said Inventors hereby warrant and represent that said Inventors have 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:
Mark A. Haynes, Ernest J. Boffel, Jr., Warren S. Wolfeld, James F. Hann, Bill Kennedy, Kenta Suzue, Peter J. Su and Joseph E. Root 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.

Wen-Chiao Ho

Wen-Chiao HO 何文喬

Date: Oct, 12, 2006

Chin-Hung Chang

Chin-Hung CHANG 張欽鴻

Date: Oct, 12, 2006

Cheng-Chi Liu

Cheng-Chi LIU 劉正淇

Date: Oct 12 2006

Kuen-Long Chang

Kuen-Long CHANG 張坤龍

Date: Oct, 12, 2006

Chun Hsiung Hung

Chun-Hsiung HUNG 洪俊雄

Date: Oct 12 2006