

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Tzung-Shen Chen</td> <td>01/25/2013</td> </tr> <tr> <td>Shuo-Nan Hong</td> <td>01/17/2013</td> </tr> <tr> <td>Yi-Ching Liu</td> <td>01/17/2013</td> </tr> <tr> <td>Chun-Hsiung Hung</td> <td>01/16/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Tzung-Shen Chen | 01/25/2013 | Shuo-Nan Hong | 01/17/2013 | Yi-Ching Liu | 01/17/2013 | Chun-Hsiung Hung | 01/16/2013 |
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| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>Macronix International Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>No. 16, Li-Hsin Road</td> </tr> <tr> <td>Internal Address:</td> <td>Science-Based Industrial Park</td> </tr> <tr> <td>City:</td> <td>Hsinchu</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> </table> | | Name: | Macronix International Co., Ltd. | Street Address: | No. 16, Li-Hsin Road | Internal Address: | Science-Based Industrial Park | City: | Hsinchu | State/Country: | TAIWAN |
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| PROPERTY NUMBERS Total: 3 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>61642349</td> </tr> <tr> <td>Application Number:</td> <td>61645378</td> </tr> <tr> <td>Application Number:</td> <td>13750858</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 61642349 | Application Number: | 61645378 | Application Number: | 13750858 | | |
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| Application Number: | 61645378 | | | | | | | | | | |
| Application Number: | 13750858 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| <p>Fax Number: 6507120340 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 650 712-0340 Email: jgray@hmbay.com Correspondent Name: Yiding Wu Address Line 1: Haynes Beffel & Wolfeld LLP Address Line 2: PO Box 366 Address Line 4: Half Moon Bay, CALIFORNIA 94019</p> | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | MXIC 2023-2 | | | | | | | | | | |

OP \$120.00 61642349

NAME OF SUBMITTER:

Yiding Wu

Total Attachments: 3

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MXIC 2023-2
(P1010072US)

ASSIGNMENT

WHEREAS, the undersigned,

- | | |
|---|--|
| (1) Tzung-Shen Chen 陳宗申 Guishan Township, Taiwan | (2) Shuo-Nan Hong 洪碩男 Zhubei City, Taiwan |
| (3) Yi-Ching Liu 劉逸青 Hsinchu City, Taiwan | (4) Chun-Hsiung Hung 洪俊雄 Hsinchu City, Taiwan |

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

PLURAL OPERATION OF MEMORY DEVICE

and have filed a provisional Application for a United States patent disclosing and identifying the above invention on **03 May 2012** as Application No. **61/642,349**, and on **10 May 2012** as Application No. **61/645,378**, and are filing a non-provisional application for a United States patent disclosing and identifying the above invention on 25 January 2013 as Application No. 13/750,858, OR are filing such an application herewith, and have executed an oath or declaration of inventorship for such non-provisional application on:

- (1) the 25th day of January, 2013;
- (2) the 17th day of January, 2013;
- (3) the 17th day of January, 2013;
- (4) the 16th day of January, 2013.

(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 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:

MXIC 2023-2
(P1010072US)

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 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.

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, Ryan Davis and Yiding Wu 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.

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MXIC 2023-2
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IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the date written below.

Tzung-Shen Chen
TZUNG-SHEN CHEN 陳宗申

Date: 2013 / 1 / 25

Shuo-Nan Hong
SHUO-NAN HONG 洪碩男

Date: 2013 / 1 / 17

Yi-Ching Liu
YI-CHING LIU 劉逸青

Date: 2013 / 1 / 17

Chun Hsiung Hung
CHUN-HSIUNG HUNG 洪俊雄

Date: 2013 / 1 / 16