

## 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>Yen-Hao Shih</td> <td>08/16/2012</td> </tr> <tr> <td>Shih-Hung Chen</td> <td>08/16/2012</td> </tr> <tr> <td>Teng-Hao Yeh</td> <td>08/16/2012</td> </tr> <tr> <td>Chih-Wei Hu</td> <td>08/16/2012</td> </tr> <tr> <td>Feng-Nien Tsai</td> <td>08/29/2012</td> </tr> <tr> <td>Lo-Yueh Lin</td> <td>08/29/2012</td> </tr> </tbody> </table> |  | Name          | Execution Date | Yen-Hao Shih        | 08/16/2012 | Shih-Hung Chen | 08/16/2012 | Teng-Hao Yeh | 08/16/2012 | Chih-Wei Hu | 08/16/2012 | Feng-Nien Tsai | 08/29/2012 | Lo-Yueh Lin | 08/29/2012 |
| Name   | Execution Date                           |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Yen-Hao Shih   | 08/16/2012                               |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Shih-Hung Chen   | 08/16/2012                               |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Teng-Hao Yeh   | 08/16/2012                               |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Chih-Wei Hu  | 08/16/2012                               |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Feng-Nien Tsai   | 08/29/2012                               |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Lo-Yueh Lin  | 08/29/2012                               |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| 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>13607555</td> </tr> </tbody> </table>  |  | Property Type | Number         | Application Number: | 13607555   |                |            |              |            |             |            |                |            |             |            |
| Property Type  | Number                                   |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Application Number:  | 13607555                                 |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| CORRESPONDENCE DATA  |  |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
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| Phone:   | 650-712-0340                             |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Email:   | mholland@hmbay.com                       |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>  |  |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Correspondent Name:  | MACRONIX C/O HAYNES BEFFEL & WOLFELD LLP |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Address Line 1:  | P. O. BOX 366                            |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Address Line 2:  | Attn: James F. Hann                      |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| Address Line 4:  | HALF MOON BAY, CALIFORNIA 94019          |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |
| ATTORNEY DOCKET NUMBER:  | MXIC 2021-2                              |               |                |                     |            |                |            |              |            |             |            |                |            |             |            |

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NAME OF SUBMITTER:

James F. Hann

Total Attachments: 3

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**JOINT TO CORPORATE  
ASSIGNMENT**

WHEREAS, the undersigned,

- |   |   |
|---|---|
| (1) Yen-Hao Shih 施彥豪<br>24 Town Green Drive<br>Elmsford, NY 10523   | (2) Shih-Hung Chen 陳士弘<br>No.18, Alley 60, Lane 333, Sec. 3<br>Jhongfong Rd., Jhudong Township<br>Hsinchu County 310 Taiwan |
| (3) Teng-Hao Yeh 葉騰豪<br>2F., No.204, Lane 1050, Minghu Rd.<br>East District<br>Hsinchu City 300 Taiwan        | (4) Chih-Wei Hu 胡志瑋<br>No.82, Ren'ai Rd.<br>Toufen Township<br>Miaoli County 351 Taiwan                                     |
| (5) Feng-Nien Tsai 蔡豐年<br>5F., No.20, Ln. 86, Wugong 2nd Rd.<br>Xinzhuang Dist.<br>New Taipei City 242 Taiwan | (6) Lo-Yueh Lin 林烙躍<br>No.9, Lane 2, Rixin Rd.<br>Dongshan Shiang<br>Yilan County 269 Taiwan                                |

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

**METHOD FOR FORMING INTERLAYER CONNECTORS IN A  
THREE-DIMENSIONAL STACKED IC DEVICE**

and have filed a provisional Application for a United States patent disclosing and identifying the above invention on 19 July 2012 as Application No. 61/673,688, 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 16th day of August, 2012;
- (2) the 16th day of August, 2012;
- (3) the 16th day of August, 2012;
- (4) the 16th day of August, 2012;
- (5) the 29th day of August, 2012;
- (6) the 29th day of August, 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 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, 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.

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

Yen-Hao Shih 施彥豪 Date: Aug. 16, 2012

Shih-Hung Chen 陳士弘 Date: 2012.8.16

Teng-Hao Yeh 葉騰豪 Date: Aug. 16, 2012

Chih-Wei Hu 胡志瑋 Date: Aug 16, 2012

Feng-Nien Tsai 蔡豐年 Date: Aug 29, 2012

Lo-Yueh Lin 林烙躍 Date: Aug 27, 2012