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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark OfficeJ0633 U.S. PTO
10/403456
03/31/03

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): **3.31.03**
Yen-Ting CHEN, Pei-Ming SHAN2. Name and address of receiving party(ies)
Name: **Macronix International Co., Ltd.**

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

18 March 2003**18 March 2003**

Execution Date: _____

Street Address: **No. 16, Li-Hsin Road****Science-Based Industrial Park**City: **Hsinchu** State: **Taiwan** Zip: **ROC**Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

10403456If this document is being filed together with a new application, the execution date of the application is: **03/21/03**A. Patent Application No.(s) **New**

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Mark A. Haynes**

Internal Address: _____

Haynes Beffel & Wolfeld LLPStreet Address: **P.O. Box 366**City: **Half Moon Bay** State: **CA** Zip: **94019**6. Total number of applications and patents involved: ☐7. Total fee (37 CFR 3.41).....\$ **40.00**☒ Enclosed☐ Authorized to be charged to deposit account8. Deposit account number: **50-0869****Attorney Docket No.: MXIC 1550-1**

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.***Mark A. Haynes, Reg. No. 30,846**

Name of Person Signing

Signature

31 March 2003

Date

Total number of pages including cover sheet, attachments, and documents: **3**

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

04/04/2003 MVBREM1 00000041 10403456

03 PD:8021

40.00 DP

PATENT
REEL: 013920 FRAME: 0550

MXIC 1550-1

MXIC 1550-1

ASSIGNMENT
(Joint to Corporate)

WHEREAS, the undersigned,

(1) Yen-Ting CHEN
3fl., No. 1, Lane 135, Sec. 1
Anhe Rd., Daan Chiu, Taipei
Taiwan 106, R.O.C.

2) Pei-Ming SHAN
60 Fl, Hsueh Bau-shan Road
Hsinchu
Taiwan 300 R.O.C.

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

**APPARATUS AND METHOD FOR DE-INTERLACING VIDEO, INCLUDING 3:2
PULLDOWN VIDEO**

and have filed an 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 application on:

(1) the 18th day of March, 2003;

(2) the 18th day of March, 2003;

(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 jointly or severally 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 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 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, their respective heirs, legal representatives and assigns.

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

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

Yen-Ting CHEN

Yenting Chen

Dated: 18 / 3 / 2003

Pei-Ming SHAN

Pei-Ming Shan

Dated: 18 / 3 / 2003