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To the Honorable Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

112948 U.S. PTO  
11/484267



071006

1. Name of conveying party(ies):  
  
Jen-Chung Chang,  
Chia-Jung Hsu,  
Shey-Shi Lu,  
Hsiao-Chin Chen,  
Yu-Yee Liow

2. Name/address of receiving Party(ies):  
  
● United Microelectronics Corp.  
No. 3, Li-Hsin Rd. II, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.  
  
● National Taiwan University  
No.1, Roosevelt Rd. Sec. 4, Taipei, Taiwan, R.O.C.

3. Nature of conveyance:  Assignment  
 Merger  Security Agreement  Other  
 Change of Name  Reassignment

4. Date(s) of execution: March 24, 2006.

Add'l names of receiving parties Attached?  Yes  No

5. Application number(s) or patent number(s):  
**If this documents is being filed together with a new application, the execution date of the application is March 24, 2006.**

A. Patent Application No. (s)  
  
Additional numbers attached ?

B. Patent No. (s)  
  
 Yes  No

6. Name and address of party to whom Correspondence concerning document should be mailed:  
  
J.C. Patents, Inc.  
4 Venture, Suite 250  
Irvine, CA 92618  
(949) 660-0761

7. Total No. of applications and patents involved:  
ONE(1)  
  
8. Total fee (37 CFR §3.41): \$40.00  
 Enclosed  
 Charge to Acct. No. \_\_\_\_\_  
  
9. Total number of pages, including Cover sheet, attachments and document 3.

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10. 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.  
  
Jiawei Huang                      [Signature]                      7/10/2006  
Name of Person Signing                      Signature                      Date

07/14/2006 DBYRNE  
01 FC:0021  
Registration No. 43,330  
0000096 11484267  
40.00 UP

## ASSIGNMENT

WHEREAS, 1. Jen-Chung Chang                      2. Chia-Jung Hsu  
            3. Shey-Shi Lu                              4. Hsiao-Chin Chen  
            5. Yu-Yee Liow

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: FREQUENCY-CONVERTING CIRCUIT AND DOWN CONVERTER WITH THE SAME

[ ] Filed:    Serial No.

[x] Executed concurrently with the execution of this instrument

WHEREAS, 1. United Microelectronics Corp.  
            of No. 3, Li-Hsin Rd. II, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.  
            2. National Taiwan University  
            of No.1, Roosevelt Rd. Sec. 4, Taipei, Taiwan, R.O.C.

hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee Lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

## ASSIGNMENT CONTINUED

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

Signature: Jen-Chung Chang  
Sole or First Joint Inventor: Jen-Chung Chang

Date: MARCH 24, 2006

Signature: CHIA-JUNG-HSU  
Second Joint Inventor (if any): Chia-Jung Hsu

Date: MARCH 24, 2006

Signature: \_\_\_\_\_  
Third Joint Inventor (if any): Shey-Shi Lu

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Fourth Joint Inventor (if any): Hsiao-Chin Chen

Date: \_\_\_\_\_

Signature: Yu-Yee Liow  
Fifth Joint Inventor (if any): Yu-Yee Liow

Date: MARCH 24, 2006

## ASSIGNMENT CONTINUED

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Sole or First Joint Inventor: Jen-Chung Chang

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Second Joint Inventor (if any): Chia-Jung Hsu

Signature: Shey-Shi Lu

Date: March 24, 2006

Third Joint Inventor (if any): Shey-Shi Lu

Signature: Hsiao-Chin Chen

Date: MARCH 24, 2006

Fourth Joint Inventor (if any): Hsiao-Chin Chen

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Fifth Joint Inventor (if any): Yu-Yee Liow