

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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ocket No. 148693.31384

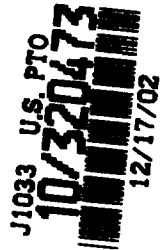
RECORDATION



NTS ONLY

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

102326573



Sir:

Please record the attached original document(s) or copy(ies). The pertinent information is as follows:

(1) **Submission Type**

12-17-02

- ☒ New
- ☐ Resubmission (Non-Recordation) - Document ID# \_\_\_\_\_
- ☐ Correction of PTO Error - Reel # \_\_\_\_\_, Frame # \_\_\_\_\_
- ☐ Corrective Document - Reel # \_\_\_\_\_, Frame # \_\_\_\_\_

(2) **Conveyance Type**

- ☒ Assignment
- ☐ License
- ☐ Merger
- ☐ Security Agreement
- ☐ Change of Name
- ☐ Other: \_\_\_\_\_

(3) **Conveying Party(ies)** (Name(s) only)

Yu-Piao Wang  
Chia-Che Chuang

(4) **Receiving Party(ies)** (Name(s) and address(es))

10320473

United Microelectronics Corp.  
No. 3, Li-Hsin Rd. 2  
Science-Based Industrial Park  
Hsin-Chu City, Taiwan, R.O.C.

(5) **Applications and/or patent(s) against which enclosure is to be recorded:**

12/31/2002 LMUELLER 00000180 501682 10320473

01 FC:0021 40.00 CH

**PATENT**  
**REEL: 013612 FRAME: 0758**

- ☐ Serial Number 09/840,715, filed April 24, 2001.  
☒ Application filed concurrently herewith.  
☐ Patent Number \_\_\_\_\_, issued \_\_\_\_\_.

(6) **Name and address of party to whom correspondence concerning the request to record should be mailed:**

Thomas T. Moga  
POWELL, GOLDSTEIN, FRAZER & MURPHY LLP  
P.O. Box 97223  
Washington, D.C. 20090-7223

(7) **Date(s) the document was executed: May 29, 2001**

(8) **Number of Properties/Fee Amount/Method of Payment**

Number of Properties involved:


Total fee amount for properties listed: \$40.00

- ☐ A check is enclosed to cover the total fees for recordation.  
☒ The total recordation fees are to be charged to Deposit Account No. 50-1682.

If, for some reason, Applicants have not paid a sufficient fee or if any overpayment has been made, the Commissioner is hereby authorized to credit or debit Deposit Account No. 50-1682 accordingly.

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. Charges to deposit account are authorized as indicated herein.

Date: December 17, 2002

By:   
Thomas T. Moga  
Reg. No. 34,881  
Attorney for Applicants

POWELL, GOLDSTEIN, FRAZER & MURPHY LLP  
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Washington, D.C. 20090-7223  
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ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) Yu-Piao WANG	(4)
(2) Chia-Che CHUANG	(5)
(3)	(6)

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

**UNITED MICROELECTRONICS CORP.**

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled  
**METHOD FOR FORMING A PLUG METAL LAYER**

[a] for which an application for United States Letters Patent was filed on, and identified by United States Serial No.; or  
 [b] for which an application for United States Letters Patent was executed on,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside our signatures:

INVENTORS

DATE SIGNED

(1) Yu-Piao Wang  
 Name: Yu-Piao WANG

5/29/2001

(2) Chia-Che Chuang  
 Name: Chia-Che CHUANG

5/29/2001

(3)  
 Name:

(4)  
 Name: