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Attorney Docket No. 8693-000258

COVER SHEET FOR RECORDAL OF DOCUMENT (PATENT)

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

Sir:

Pursuant to 37 C.F.R. 3.31, enclosed herewith is a document for recordal in this case. The following information is provided:

(1) **Name Of Party Conveying The Interest:**

Shih-Huang Huang
Hsin-Pang Lu

(2) **Name And Address Of Party Receiving The Interest:**

UNITED MICROELECTRONICS CORP.
No. 3, Li-Hsin Rd. 2, Science-Based Industrial Park
Hsin-Chu City, Taiwan, R.O.C.

(3) **Description Of The Transaction To Be Recorded:**

[X] Assignment   [ ] License
[ ] Change of Name [ ] Other _____

(4) **Application(s) and/or Patent(s) Against Which Enclosure Is To Be Recorded:**

[ ] Serial Number _____, filed _____.
[X] Application being filed concurrently herewith.
[ ] Patent Number _____, issued _____.

(5) **Name And Address Of The Party To Whom Correspondence Concerning The Request To Record Should Be Mailed:**

HARNESS, DICKEY & PIERCE, P.L.C.
P.O. Box 828
Bloomfield Hills, MI 48303

PATENT
REEL: 011221 FRAME: 0439

(6)   **Number Of Applications and/or Patents Identified In The Cover Sheet And Total Recordal Fee:**

Number of Applications/Patents: . 1

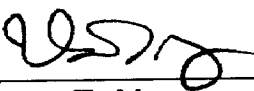Total Recordal Fee Enclosed: . . . $40.00

(7)   **Date(s) The Document Was Executed:** September 28, 2000

To the best of my knowledge and belief, the foregoing information is true and correct, and if the attached is not an original document, the undersigned verifies that it is a true copy of the original.

If, for some reason, Applicants have not paid a sufficient fee, please charge our Deposit Account No. 08-0750 for any further fees which may be due. A duplicate copy of this document is enclosed.

Respectfully submitted,

By:

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

Date: October 6, 2000

Docket No.: 8693-000258

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) Shih-Huang HUANG   (4)

(2) Hsin-Pang LU   (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

DATA OUTPUTTING CIRCUIT FOR SEMICONDUCTOR MEMORY DEVICE

[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, September 28, 2000

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)   _Shih-Huang Huang_   SEP 28 2000

Name: Shih-Huang HUANG

(2)   _Hsin Pang Lu_   SEP 28 2000

Name: Hsin-Pang LU

(3)

Name:

(4)

Name: