

08-26-1999

HEET

U.S. DEPT. OF COMMERCE  
Patent and Trademark Office

7

TSMC99-071

To the Honorable Commissioner of Patents



101128012

ial documents or copy thereof.

1. Name of conveying party(ies):

JEI-FENG HWANG, JUN-LIN TSAI,  
RUEY-HSIN LIOU AND KUO-CHIO LIUAdditional name(s) or conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ other \_\_\_\_\_

Execution Date: 7/9/992. Name and address of receiving party(ies):  
Name: Taiwan Semiconductor Manufacturing Company

Internal Address:

Street Address:

121 Park Ave. 3  
Science-Based Industrial Park  
City: Hsin-Chu Zip:  
Country: Taiwan, R.O.C.

Additional name(s) & address(es) attached? Yes ☐ No ☒

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

If this document is being filed together with a new application, the execution date of the application is: 7/9/99A. Patent Application No(s)B. Patent No.(s)Additional numbers attached? ☐ Yes ☒ No

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

Name: GEORGE O. SAILE

Internal Address: \_\_\_\_\_

Street Address: 20 MCINTOSH DRIVECity: POUGHKEEPSIE State: NY ZIP: 126036. Total no. of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit acct.8. Deposit account number: 19-0033

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

08/25/1999 DCURTES 00000204 190033 09376428

DO NOT USE THIS SPACE

01 FC:581

40.00 CH

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

GEORGE O. SAILE

Name of Person Signing

Signature

August 16, 1999

Date

Total number of pages comprising cover sheet: 3

For ☒ U.S. and/or ☒ Foreign Rights

For ☒ Application or ☐ U.S. Patent

By ☒ Inventor(s) or ☐ Present Owner

### ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

#### ASSIGNOR:

JEI-FENG HWANG  
Type or print name of ASSIGNOR

4F, No. 46, Kuo-Hua St.,  
Address

Chu-Pei, Taiwan.

Republic of China  
Nationality

JUN-LIN TSAI  
Type or print name of ASSIGNOR

No 32, Alley 28 Lane 251, Da-Jue Road  
Address

Hsin-chu 300, Taiwan, R.O.C.

Republic of China  
Nationality

RUEY-HSIN LIU  
Type or print name of ASSIGNOR

RF-3, No. 56, University Road,  
Address

Hsin-chu 300, Taiwan, R.O.C.

Republic of China  
Nationality

KUO-CHIO LIU  
Type or print name of ASSIGNOR

11F, No. 165, Section 89, Kuan-Fu Road  
Address

Hsin-chu 300, Taiwan, R.O.C.

Republic of China  
Nationality

#### ASSIGNEE:

**Taiwan Semiconductor Manufacturing Co. Ltd.**

**121 Park Ave. 3**

**Science-Based Industrial Park**

**Hsin-Chu, Taiwan, R.O.C.**

**Taiwan, R.O.C.**

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- ☒ the entire right, title and interest
- ☐ an undivided \_\_\_\_\_ percent (\_\_\_\_%) interest for the United States and its territorial possessions  
(check the following box if foreign rights are also to be assigned)
- ☒ and in all foreign countries

in and to any and all improvements which are disclosed in the invention entitled:

**Field Ring To Improve The Breakdown Voltage For A High Voltage Bipolar Device**

and which is found in

- (a) ☒ U.S. patent application executed on even date herewith
- (b) ☐ U.S. patent application executed on \_\_\_\_\_
- (c) ☐ U.S. application serial no. \_\_\_\_\_ filed on \_\_\_\_\_
- (d) ☐ U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
(also check (e) if foreign application(s) is also being assigned)
- (e) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I / We have signed this

July 9, 1999 (Date of signing)

**WARNING** Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Jei-Feng Huang  
Signature of ASSIGNOR(S)  
Kuo-Chin Lin  
Ruey-Hsin Lien  
Jun-Liiv Tsai

If ASSIGNOR is a legal entity complete the following information

\_\_\_\_\_  
Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

\_\_\_\_\_  
Title

Note: No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired.

\_\_\_\_ Notarization of Legalization Page Added.