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To the Honorable Commissioner of P.

102694850

original documents or copy thereof.

1. Name of conveying party(ies):

3-9-04

CHIN-SHAN HOU, TONG-CHERN ONG, JUI-LING
YANG, JUN-YI WU

2. Name and address of receiving party(ies):

Name: Taiwan Semiconductor Manufacturing Company

Internal Address:

Street Address:

No. 8, Li-Hsin Rd. 6
Science-Based Industrial Park
Hsin-Chu, Taiwan 300-77
Taiwan, R.O.C.

Additional name(s) or conveying party(ies) attached? Yes No

3. Nature of conveyance

Assignment Merger

Security Agreement Change of Name

other _____

Execution Date: 2/9/04

Additional name & address attached? Yes No

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

10796430

If this document is being filed together with a new application, the execution date of the application is: 2/9/04&2/10/04

A. 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: 28 DAVIS AVENUE

City: POUGHKEEPSIE State: NY ZIP: 12603

6. Total no. of applications and patents involved: 1

7. 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)

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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

STEPHEN B. ACKERMAN

Name of Person Signing

Signature

3/9/04

Date

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22782 U.S. PTO
10796430



030904

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:

CHIN-SHAN HOU
Type or print name of ASSIGNOR
31.15F-2, Chien-Chung Rd. 1,
Address
Hsin-Chu city, 300
TAIWAN, R.O.C, Republic of
Nationality
China

TONG-CHERN ONG
Type or print name of ASSIGNOR
3rd floor, #2, Min-shun St.
Address
Chong-Her city, Taipei
TAIWAN, R.O.C, Republic of China
Nationality

JUI-LING YANG
Type or print name of ASSIGNOR
F9, No. 23, Lane 62, Hsin-Yuan St.,
Address
Hsin-Chu City, 300
TAIWAN, R.O.C, Republic
Nationality
of China

JUN-YI WU
95, 6F-1, Jiang-Gong 1st Rd.,
Address
Hsin-Chu city, 300
TAIWAN, R.O.C., Republic of China

do hereby sell, assign and transfer to

ASSIGNEE:

Taiwan Semiconductor Manufacturing Co. Ltd
No. 8, Li-Hsin Rd. 6
Science-Based Industrial Park
Hsin-Chu, Taiwan 300-77
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:

A Placement And Routing Method To Reduce Joule Heating

and which is found in

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on 2/9/04 & 2/10/04
- (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 clam 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
2/9/04 (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.

Chen Shan Han
Signature of ASSIGNOR(S)

Teng Chern Ong

Jui-Ling Yang

Jun-Yi Wu

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.