

01-27-2004

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To the Honorable Commissioner of Patents and Tr.

102654745

Documents or copy thereof.

1. Name of conveying party(ies):

YUAN-HUNG LIU, YEUR-LUEN TU, CHIN-TA WU,  
TSUNG-HSUN HUANG, HSIU OUYANG, CHI-HSIN  
LO, CHIA-SHIUNG TSAIAdditional name(s) or conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance

☒

Assignment

☐

Merger

☐

Security Agreement

☐

Change of Name

☐

other

Execution Date: 1/2/04

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 & address attached? ☐ Yes ☒ No

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

10758316

If this document is being filed together with a new application, the execution date of the application is: 1/2/04 & 1/5/04

A. Patent Application No(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence  
concerning document should be mailed:Name: GEORGE O. SAILE

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

Street Address: 28 DAVIS AVENUECity: POUGHKEEPSIE State: NY ZIP: 126036. Total no. of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00☐

Enclosed

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Authorized to be charged to deposit acct.

8. Deposit account number: 19-0033

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To the best of my knowledge and belief the foregoing information is true and correct and any attached copy is a true copy  
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Name of Person Signing



Signature

1/15/04

Date

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10758316

011504

For ☒ U.S. and/or ☒ Foreign RightsFor ☒ Application or ☐ U.S. PatentBy ☒ 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,

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**ASSIGNEE:**

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 Science Based Industrial Park  
 Hsin-Chu Taiwan 300-77  
 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:

**Methods Of Fabricating A Word-Line Spacer For Wide Over-Etching Window On Outside Diameter (OD) And Strong Fence**

For ☒ U.S. and/or ☒ Foreign RightsFor ☒ Application or ☐ U.S. PatentBy ☒ 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:**

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**Taiwan Semiconductor Manufacturing Co.**  
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**Science Based Industrial Park**  
**Hsin-Chu Taiwan 300-77**  
**R.O.C.**  
 Nationality

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(complete one of the following)

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

**Methods Of Fabricating A Word-Line Spacer For Wide Over-Etching Window On Outside Diameter (OD) And Strong Fence**

and which is found in

- (a) ☐ U.S. patent application executed on even date herewith  
(b) ☒ U.S. patent application executed on 1/2/04 & 1/5/04  
(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 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

1/2/04 (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.

Yuan-hung Liu  
Signature of ASSIGNOR(S)  
Yuan-hung Liu  
Chia Sheng Tsai  
Chia Sheng Tsai  
CHIA-HSIN LO

If ASSIGNOR is a legal entity complete the following information

Chia Sheng Tsai

\_\_\_\_\_  
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.

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(d) ☐ U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
(e) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority  
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IN WITNESS WHEREOF, I / We have signed this  
1/2/04 (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.

Tsun Hsun Huang  
Signature of ASSIGNOR(S)

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

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\_\_\_\_ Notarization or Legalization Page Added.