PATENT REEL: 9617 FRAME: 0662

| For x U.S. a | nd/or x Foreign Rights | | |
|---|------------------------|--|--|
| For X Applica | ation or U.S. Patent | | |
| By X Invent | or(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: | | | |
| Tuh Da Fan Type or print name of ASSIGNOR No. 28, Chung-San Street Address Tac-Wu Country, Miac-Li Causty, Tai Republic of China Nationality | wan. | | |
| 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 A | SSIGNEE | | |
| (complete one of the following | ng) | | |
| x the entire right, title and interest | | | |
| an undivided percent (%) interest for the U | | | |

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

High Selectivity Mask Oxide Etching To Suppress Silicon Pits

x and in all foreign countries

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| and which | n is found in | | |
|---|--|---|-----|
| (a) x | U.S. patent application executed on even da | ite herewith | |
| (b) | U.S. patent application executed on | | |
| (c) | | filed on | _ |
| (d) | U.S. patent no. | | |
| (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 | |
| | | r said invention by the above application or an as to letters patent any re-issue or re-examination | |
| | SIGNOR hereby covenants that no assignment, or entered into which would conflict with this a | , sale, agreement or encumbrance has been or wi | H |
| 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 | | | |
| | | 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 of behalf of ASSIGNOR |)F) |

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.

RECORDED: 11/27/1998

Title

___Notarization of Legalization Page Added.

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