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	Patent and Trademark (
To the Honorable Commissioner c. 1021531	3 attached original documents or copy thereo
1 Name of conveying party(ies):	2 Name and address of receiving party(ies):
Yi-Chang Liu Chia-Chen Chang Yuan-Mou Dai	Taiwan Semiconductor Manufacturing Co. L No. 121 Park Avenue 3 Science-Based Industrial Park Hsin-Chu, Taiwan, R.O.C.
3 Nature of conveyance: ■ Assignment □ Merger	Additional name(s) & address(es) attached □ Yes ⊠ No
☐ Security Agreement ☐ Change of Name	
Other: Execution Date: June 5, 2002	
4 Application number(s) or patent number(s):	
If this document is being filed together with a new applica-	ation, the execution date of the application is: <u>06-05-02</u>
A. Patent Application No(s). ///184320	B. Patent No(s)
Additional number	s attached? □ Yes ⊠ No
5 Name and address of party to whom correspondence concerning document should be mailed:	6 Total number of applications and patents involved: 1
RANDY W. TUNG 2002 TelbigRB SA statio0itatio3 s 10184320 838 W. Long Lake Road	7 Total fee (37 CFR 3.41) \$40.00
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Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

PATENT REEL: 013065 FRAME: 0518 67,200-874 2001-1691

ASSIGNMENT

WHEREAS, we, YI-CHANG LIU, CHIA CHEN CHANG and YUAN MOU DAI

have invented certain improvements in

PURGE BARS FOR CMP CLEANER

for which we are about to make application for Letters Patent of the United States; and

WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. of

No. 121, Park Avenue 3, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C, is desirous of

acquiring the entire right, title and interest in and to said invention;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and

valuable consideration, the receipt of which is hereby acknowledged, we, YI-CHANG LIU, CHIA

CHEN CHANG and YUAN MOU DAI, by these presents, do hereby sell, assign and transfer unto

the said corporation and its assigns, for the territory of the United States of America and all foreign

countries, the entire right, title and interest, including all priority rights under the International

Convention associated with each country of the Union, in and to said invention as described in the

patent application executed by us on the 5 th day of June, 2002, preparatory

to obtaining Letters Patent of the United States thereon, and in and to said application and any

Letters Patent that may be granted in pursuance of said application and any divisional, continuation

or continuation-in-part application thereof, and in and to any reissue of any such patent, and in and

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REEL: 013065 FRAME: 0519

67,200-874 2001-1691

to any patent applications which may be filed on said invention in countries foreign to the United

States and any Letters Patent granted thereon.

We further authorize said corporation to apply for foreign patents on said invention

in its own name or through its designees, including subsidiaries, related companies or assignees,

under the International Convention or otherwise, and we further agree to execute all papers,

including those required for the United States and foreign applications, and to perform such other

proper acts as said corporation or its designees the rights herein assigned.

YI- CHANGT LIL

YI-CHANG LIU

CHIA-CHEN CHANG

CHIA-CHEN CHANG

YUAN-MOU DAI

TUNG & ASSOCIATES 838 W. Long Lake Road Suite 120

Bloomfield Hills, Michigan 48302

RECORDED: 06/27/2002

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PATENT REEL: 013065 FRAME: 0520