PT	05-18-19 0-18-19		
		SHEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
То	the Honorable Commissioner of Pate. 1007131	1 1ched original documents or copy thereof.	
I N	Name of conveying party(ies): J. S. HSIUE, B.H. YANG, T. J. FANG, J.J. WANG, V.C. LEEA, T.D. CHANG, C.S. CHUNG AND W. F. CHUANG	2. Name and address of receiving party(ies): TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. No. 121 Park Avenue 3	
<u> </u>	Additional names(s) of conveying party(ies) attached? □ Yes ※ No	Science-Based Industrial Park Hsin-Chu, Taiwan	
3.	Nature of conveyance:	R.O.C.	
		40	
4	□ Security Agreement □ Change of Name	n =	
	Other:	Additional name(s) & address(es) attached? □ Yes 省 No	
<u></u>	Execution Date: March 20, 1998	<u> </u>	
4.	Application number(s) or patent number(s):		
	If this document is being filed together with a new application	on, the execution date of the application is: $\frac{3-11-12-13-16-20}{16-20}$	
	A. Patent Application No(s).	B. Patent No(s)	
	Additional numbers attached? □ Yes ੴNo		
5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
	RANDY W. TUNG	7. Total fee (37 CFR 3.41) \$40.00	
	Tung & Associates 838 W. Long Lake Road	x□ Enclosed	
	Suite 120 Bloomfield Hills, Michigan 48302	□ Authorized to be charged to deposit account	
		8. Deposit Account Number: 50-0484	
		(Attach duplicate copy of this page if paying by deposit account)	
	DO NOT USE THIS SPACE		
9. /1996 >581	Randy W. Tung	nation is true and correct and any attached copy is a true copy of $5-6-98$	
1	Name of Person Signing Signature Registration No. 31,311	Date	
l			

**ASSIGNMENT** 

WHEREAS, we, J. S. HSIUE B. H. YANG, T. J. FANG, J. J. WANG, W.C. LEEA, T. D.

CHANG, C. S. CHUNG an W. F. CHUANG, have invented certain improvements in METHOD

AND APPARATUS FOR TREATING EXHAUST GAS FROM A SEMICONDUCTOR

FABRICATION MACHINE 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, J.S. HSIUE, B. H. YANG, T. J.

FANG, J. J. WANG, W.C. LEE. , T. D. CHANG, C. S. CHUNG and W. F. CHUANG 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 said invention as described in the patent application executed by us on the

March, 1998, 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

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any reissue of any such patent, and in and 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.

Jakine	WC Leo 3/3'99
J.S. HSIUE	W. C. LEE
B. H. Yang 3/BPR B. H. YANG	TRANCE TONIE
B. H. YANG	T. D. CHANG
TJ Fong 3/1.98'	C.S. CHING
T. J. FANG	C. S. CHUNG
II wang 1/20.18	Stelling 3/3 48
J. J. WANG	W. F. CHUANG

TUNG & ASSOCIATES 838 W. Long Lake Road Suite 120 Bloomfield Hills, Michigan 48302

RECORDED: 05/06/1998