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TS98-229 A · 11.Q9 To the Honorable Commissioner of Pan Name of conveying party(ies):	10097005		I documents or copy there	
1. Name of conveying party(ies):	ems and madding	2. Name and address	of receiving party(ies)	
CHENG-HAO HUANG, MING-SI SHIH-FANG CHEN, WEN-HSIAN PEI-HUNG CHEN Additional name(s) or conveying party(ies) at 3. Nature of conveyance X Assignment Mer	ttached? Yes X	Name: <u>Taiwan Se</u> <u>Company</u> Internal Address:	miconductor Manufa dustrial Park Zip:	
other				
Execution Date: 1/12/99 4. Application number(s) or patent n	nmher(s)	Additional name(s) &	address(es) attached?	Yes X N
1999 SBURHS 00000051 190033 0924834 581 40.00 CH 5. Name and address of party to who concerning document should be many	Additional numbers attacher		ntions and patents invo	lved:: <u>1</u>
Name: GEORGE O. SAILE Internal Address:		7. Total fee (37 CFR	3.41): \$ <u>40.00</u>	
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9. Statement and signature. To the best of my knowledge and of the original document Stephen B. Ackerman Name of Person Signing	DO NOT USE T	ation is true and correct	February 9,	
rame of t orson organing		Signature	Date	

PATENT REEL: 9763 FRAME: 0545

For x U.S. and/or x Foreign Rights
For X Application or U.S. Patent
By X 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:
Cheng-Hao Huang MING-SHUO YEN Type or print name of ASSIGNOR Type or print name of ASSIGNOR No. 10, 56 lane, Sec 3, Hsin-Son No. 30 Zin-Um St. Address Taipei laiwan Rd. Taitung, Taiwan
Type or print name of ASSIGNOR Type or print name of ASSIGNOR
Address South Address
_ Taipei _ Taiwan Rd Taitung , Taiwan
Republic of China Republic of china Nationality
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 ASSIGNEE
(complete one of the following)
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an undivided percent (%) interest for the United States and its territorial possessions
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in and to any and all improvements which are disclosed in the invention entitled:

Process To Season And Determine Condition Of A High Density Plasma Etcher

PATENT REEL: 9763 FRAME: 0546

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SI-III- FANG CHEN Type or print name of ASSIGNOR Type or print name of ASSIGNOR	-HSIANG TANG
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Republic of China Rep Nationality Nationality	ublic of China
PEI-HUNG CHEN	
Type or print name of ASSIGNOR	
2F14 Alley 45 Lane 376 Kuang-Fy Road Address	
Section - 1, Hsin - Chu, Taiwan	
Republic of China	
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 ASSIGNEE
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an undivided percent (%) interest f (check the following box/f foreign rights a	or the United States and its territorial possessions
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in and to any and all improvements which are disclose	d in the invention entitled:

Process To Season And Determine Condition Of A High Density Plasma Etcher

PATENT REEL: 9763 FRAME: 0547

(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	a foreign country, including the right to clam priority
	inuation, division, renewal, or substitute, ther	ined for said invention by the above application or an eof, and as to letters patent any re-issue or re-examination
be m	ASSIGNOR hereby covenants that no assinade or entered into which would conflict w	gnment, sale, agreement or encumbrance has been or will ith this assignment.
may proce	nent facts and documents relating to said i be known and accessible to ASSIGNOR and seding related thereto and will promptly exe	GNEE will, upon its request, be provided promptly with a invention and said Letters Patent and legal equivalents a divill testify as to the same in any interference, litigation occurs and deliver to ASSIGNEE or its legal representative uired to apply for, obtain, maintain, issue and enforce said
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or de	esirable to carry out the purposes thereof. /ITNESS WHEREOF, I / We have signed the si	his
Or de	esirable to carry out the purposes thereof. /ITNESS WHEREOF, I / We have signed the si	his Date of signing) e of execution of the application if item (a) was checked above. Cheng-Hao Huang Signature of Assignancis Ming-Ship Han Ship Tong Clen Jon-Hain Tong Pai-Hung Chen
Or de	PSIRABLE to carry out the purposes thereof. ITNESS WHEREOF, I / We have signed the same of the same as the date. RNING Date of signing must be the same as the date.	his Date of signing) e of execution of the application if item (a) was checked above. Cheng - Hao Huang Signature of Assignancis Fing Clen Shin Fong Clen Jon-Him Tang Par-Hung Chen

and which is found in

RECORDED: 02/11/1999

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