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F10-109.				Patent and Trademark Office
To the Ho	norable Commissioner of Pater			and original documents or copy thereof.
1 Name	of conveying party(ies):		2 Name	and address of receiving party(ies):
	Min-Hsiung Chiang Chi-Hsin Lo Q Q Z Z	1/02	No. 12 ² Science	Semiconductor Manufacturing Co. Ltd. 1 Park Avenue 3 e-Based Industrial Park hu, Taiwan, R.O.C.
	e of conveyance: signment	· ·	Additiona	al name(s) & address(es) attached □ Yes ⊠ No
☐ Se	curity Agreement 🔲 Chang	e of Name		
☐ Oth Execu	ner: tion Date: <u>December 12, 200</u>	01		
4 Applic	ation number(s) or patent numb	per(s):		
If this	document is being filed togethe	r with a new application	, the execution	date of the application is: 12-12-01
A. Pa	tent Application No(s).		B. Pater	nt No(s)
		Additional numbers att	 achod2 □ Ves	s ⊠ No
	and address of party to whom o		T	mber of applications and patents involved:
conce	rning document should be maile	ed:		1
	Y W. TUNG		7 Total fee	(37 CFR 3.41) \$40.00
838 W	Tung & Associates 838 W. Long Lake Road Suite 120 Bloomfield Hills, Michigan 48302			Enclosed
Suite Bloom			⊠	Authorized to charge credit card (w/filing fee)
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To the	ment and signature. e best of my knowledge and bel	jef, the foregoing inform	nation is true an	nd correct and any attached copy is a true copy of
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Rand	dy W. Tung -	Signature		
Rand	dy W. Tung of Person Signing tration No. 31,311	<u> </u>		uding cover sheet, attachments, and document : 3

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67,200-576 2001-1105/0431

ASSIGNMENT

WHEREAS, we, MIN-HSIUNG CHIANG and CHI-HSIN LO, have invented certain

improvements in

METHOD FOR INTEGRATING COPPER PROCESS

AND MIM CAPACITOR FOR EMBEDDED DRAM

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, MIN-HSIUNG CHIANG

and CHI-HSIN LO, 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 12th day of Pecember, 2001, 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

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application thereof, and in and to 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.

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

RECORDED: 02/21/2002

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