Р	**************************************	04-09-2			HEET U.S. DEPARTM	MENT OF COMMERCE t and Trademark Office	
To	the Honorable Commissioner of Paterna	400.			ched original documents	or copy thereof.	
1	Name of conveying party(ies):		1		ddress of receiving party	ies):	
	Wen-Chin Lin Denny Duan-Lee Tang Chao-Hsiung Wang	7		No. 121 P Science-B	emiconductor Manufa ark Avenue 3 ased Industrial Park Taiwan, R.O.C.	eturing Co. Ltd.	
3	Nature of conveyance: ■ Assignment			Additional nar	ne(s) & address(es) attached	i □ Yes ⊠ No	
	☐ Other: Execution Date: February 10, 2003						
4	Application number(s) or patent number	r(s):					
	If this document is being filed together with a new application, the execution date of the application is:02-10-03						
	A. Patent Application No(s).			B. Patent N	o(s)		
	1040194	Sadditional numbers att	tached	?⊓Yes №	I No		
5	Name and address of party to whom correspondence concerning document should be mailed:		1				
	RANDY W. TUNG Tung & Associates 838 W. Long Lake Road Suite 120 Bloomfield Hills, Michigan 48302				CIOSED CONTROL OF CONT	\$40.00	
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08	40.00 DF			•	icate copy of this page if	paying by deposit	
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9	Statement and signature.						
	To the best of my knowledge and belief the foregoing information is true and correct and any attached copy is a true copy of the original document.						
	Randy W. Tung Name of Person Signing Registration No. 31,311	Signature			March 27 Dat		
L.	Total number of pages including cover sheet, attachments, and document : 3 Mail documents to be recorded with required cover sheet information to:						

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

67,200-958

ASSIGNMENT

WHEREAS, we, <u>WEN-CHIN LIN</u>, <u>DENNY DUAN-LEE TANG and CHAO-</u>
HSIUNG WANG, have invented certain improvements in

MAGNETORESITIVE (MR) MAGNETIC DATA

STORAGE DEVICE WITH SPACER LAYER ISOLATION

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, WEN-CHINLIN, DENNY DUAN-LEE TANG and CHAO-HSIUNG WANG, 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 feature day of February, preparatory to obtaining Letters Patent of the United States thereon, and in and to said

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PATENT REEL: 013921 FRAME: 0230 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 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.

WEN-CHIN LIN

TUNG & ASSOCIATES

838 W. Long Lake Road

Suite 120

Bloomfield Hills, Michigan 48302

RECORDED: 03/27/2003

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PATENT REEL: 013921 FRAME: 0231