Form PTO-1595 1-31-92 08-02-2002	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office R SHEET		
To the Honorable Commission 102177037 or copy thereof.	ease record the attached original documents		
1. Name of conveying party(ies): Gong-Heum HAN, Choong-Keun KWAK, Hyou-Youn NAM 7-24-02 Additional name(s) of conveying party(ies) attached? Yes No	2. Name and address of receiving party(ies): Name: SAMSUNG ELECTRONICS CO., LTD. Internal Address: 416, Maetan-dong,		
3. Nature of conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other ☐ Execution Date: July 10, 2002	Paldal-qu, Suwon-city, Kyungki-do, Korea Additional name(s) & address(es) attached Yes No		
4. Application number(s) or patent number(s	3): 10,202272		
(with a new application, the execution date		
A. Patent Application No.(s)	B. Patent No.(s)		
Additional numbers a	ttached? 🗆 Yes 🗵 No		
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: <u>1</u>		
Name: Frank Chau, Esq. Street Address: F. CHAU & ASSOCIATES, LLP 2900 Hempstead Turnpike, Suite 501 City: East Meadow State 29/2002 EFLURES 00000068 10202272 C:581 40.00 P	 7. Total fee (37 C.F.R. §3.41): \$40.00 ☑ Credit Card Payment Form PTO-2038 is enclosed ☐ Authorized to be charged to deposit account 8. Deposit account number: (Attach duplicate copy of this page if 		
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9. Statement and signature. To the best of my knowledge and belief, correct and any attached copy is a true Frank Chau Registration No. 34,136 Name of Person Signing Signature	copy of the original document. 7/24/02 Date		
	cover sheet, attachments and documents: 3		
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PATENT REEL: 013132 FRAME: 0167

ASSIGNMENT

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: Samsung Electronics Co., Ltd.

ADDRESS: 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Korea

Who is my Assignce, and to the successes and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

TITLE: SEMICONDUCTOR MEMORY DEVICE AND TEST METHOD THEREOF invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment or indicates an attorney docket no. 8836-154 (ID11156-US), or is more particularly identified as:

	executed on even date	herewith, or
	Serial No	filed in the U.S. Patent & Trademark Office on,
	or	
	executed on	
and in	and to all United States	patents which may be granted thereon and therefore, and in and to all
certific	cates of corrections, divi	sions, continuations, continuations-in-part, reissued and re-examined
•	•	thereof, said interest being the entire ownership of the patent when
_		d by said SAMSUNG ELECTRONICS CO., LTD., my Assignee,
	_	er legal representatives, to the full end of the term, terms, or any
		for which said patent or patents may be granted, as fully and entirely
		neld and enjoyed by me or us if this assignment, sale and conveyance
had no	t been made;	

AND I hereby covenant and agree to sign and execute any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request <u>Frank Chau</u>, <u>Reg. No. 34,136</u>, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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PATENT REEL: 013132 FRAME: 0168 IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

INVENTOR(S)	<u>Date Signed</u>	<u>Witness(es)</u>
1) Gong Heum Han Gong-Heum HAN	(Seal) גמעג <u>7. / 0</u>	
2) <u>Chrony - Keun KlwAK</u> Choong-Keun KWAK	(Seal) 2012 / 10	
3) Hyou - Youn NAM	(Seal) _ 2./0	

RECORDED: 07/24/2002

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