Form PTO-1595 RECORD	U.S. DEPARTMENT OF CON U.S. Patent and Trademark	
OMB No. 0651-0027 (exp. 5/31/2002)	U.S. Patent and Trademark	• = -
Tab settings ⇒ ⇒ ⇒ ▼ ▼ 102	637322 • • •	
	Please Record the attached original documents or copy thereof.	
1. Name of conveying party(ies): $2.22.0$	Name and address of receiving party(ies)	U.S. PTO
Hee Bok Kang	Name: Hynix Semiconductor Inc.	O.S.
Additional name of conveying party(ies) attached? ☐ Yes ☒ No	Internal	22386
3. Nature of conveyance:	Street Address: San 136-1, Ami-ri, Bubal-eup,	
☐ Assignment ☐ Merger	Icheon-si, Gyeonggi-do 467-701, KOF	REA
☐ Security Agreement☐ Change of Name☐ Other	City: State: Zip:	
Execution Dates: December 9, 2003	Additional Name(s) & address(es) attached? ☐ Yes ▷] No
If this document is being filed together with a new application A. Patent Application No.(s) 103 HMARZI1 00000034 10742395 121 40.00 0P	B. Patent No.(s)	200
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A. Patent Application No.(s) 1003 HMARZI1 00000034 10742395 Additional numbers att 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Johnny A. Kumar Internal Address: Heller Ehrman White & McAuliffe Street Address: 1666 K Street, N.W.	B. Patent No.(s) ached? Yes No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 Enclosed Authorized to be charged to deposit account 8. Deposit account number:	
A. Patent Application No.(s) 1003 HMARZ11 00000034 10742395 21 40.00 UP Additional numbers att 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Johnny A. Kumar Internal Address: Heller Ehrman White & McAuliffe Street Address: 1666 K Street, N.W. Suite 300 City: Washington State: D.C. Zip: 20006	B. Patent No.(s) ached? Yes No 6. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41)\$ 40.00 Enclosed Authorized to be charged to deposit account 8. Deposit account number: 08-1641	
A. Patent Application No.(s) 1003 HMARZ11 00000034 10742395 21 40.00 UP Additional numbers att 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Johnny A. Kumar Internal Address: Heller Ehrman White & McAuliffe Street Address: 1666 K Street, N.W. Suite 300 City: Washington State: D.C. Zip: 20006	B. Patent No.(s) ached? Yes No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 Enclosed Authorized to be charged to deposit account 8. Deposit account number: 08-1641 (Attach duplicate copy of this page if paying by deposit account	
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PATENT REEL: 014834 FRAME: 0809

ASSIGNMENT AND AGREEMENT

WHEREAS, [Hee Bok KANG] (hereinafter referred to singly and collectively as "ASSIGNOR") have invented a certain invention entitled [NONVOLATILE FERROELECTRIC MEMORY DEVICE HAVING MULTI-BIT CONTROL FUNCTION] for which an application for United States Letters Patent is filed concurrently herewith;

WHEREAS, [Hynix Semiconductor Inc.], having its principal place of business at [San 136-1, Ami-ri, Bubal-eup, Icheon-si, Gyeonggi-do 467-701, Korea] (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

NOW THEREFORE, in view of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

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Attorney Docket No.:

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of Heller Ehrman White & McAuliffe the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of Heller Ehrman White & McAuliffe do not personally represent ASSIGNOR or ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAMES AND SIGNATURES OF INVENTORS			
Name: Hee Bok KANG	Signature: Cang Hee Bok	Date: Dec. 9.2003	
Name:	Signature:	Date:	
Name:	Signature:	Date:	
NAMES AND SIGNATURES OF WITNESSES			
Name: Hai Shin Yoon	Signature: HZSP.4	Date: Dec. 9, 2003	
Name:	Signature:	Date:	
Name:	Signature:	Date:	

RECORDED: 12/22/2003