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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KYUNG PIL HWANG	10/26/2005
HYUNG SEOK KIM	10/26/2005
KEUM HWAN NOH	10/26/2005
JU IN KIM	10/26/2005
MIN KYU LEE	10/26/2005
SEOK JIN JOO	10/26/2005
SOOK KYUNG KIM	10/26/2005

RECEIVING PARTY DATA

Name:	HYNIX SEMICONDUCTOR INC.	
Street Address:	SAN 136-1, AMI-RI, BUBAL-EUB	
Internal Address:	ICHEON-SI	
City:	KYOUNGKI-DO	
State/Country:	KOREA, REPUBLIC OF	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	12424984
Application Number:	12425025

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email:	docket@marshallip.com
Correspondent Name:	MARSHALL, GERSTEIN & BORUN LLP
Address Line 1:	233 SOUTH WACKER
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ATTORNEY DOCKET NUMBER:	29936/41713A, 41713B
NAME OF SUBMITTER:	CHRISTINE HILLS
SIGNATURE:	/Christine Hills/

DATE SIGNED:	02/21/2017
Total Attachments: 2 source=Assignment 41713A and B#page1.tif source=Assignment 41713A and B#page2.tif	

ASSIGNMENT

11/275,279 Serial No:

December 21, 2005

Filed: Title: ERASE AND PROGRAM METHOD OF FLASH MEMORY DEVICE FOR INCREASING PROGRAM SPEED OF FLASH MEMORY DEVICE

For \$10.00 (Ten Dollars) and other good and sufficient consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to Hynix Semiconductor Inc., of San 136-1, Ami-ri, Bubal-eub, Icheon-si, Kyoungki-do, Republic of Korea, (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, executed by the undersigned on,

and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for the aforesaid consideration the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

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PATENT REEL: 041310 FRAME: 0946

October 26, 2005 Date: Signature: Name: Kyung Pil HWANG October 26, 2005 Date: Signature: Name: Hyung Seok KIM diamin ALIM October 26, 2005 Signature: Date: Name: Keum Hwan NOH October 26, 2005 Signature: Date: Name: Ju In KIM October 26, 2005 Signature: Date: Name: Min Kyu LEE October 26, 2005 Signature: Date: Name: Seok Jin JOO October 26, 2005 Date: Signature: Name: Sook Kyung KIM 2

RECORDED: 02/21/2017

PATENT REEL: 041310 FRAME: 0947