

07-07-2004

FORM PTO-1595  
(Rev. 10/02)  
OMD No. 0651-0011 (exp. 6/30/2005)



102784305

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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10/877886  
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
**Se-Jun Kim; Sang-Hoon Hong; Jae-Bum Ko**  
*6-23-04*  
Additional name(s) of conveying party(ies) attached?  
 No  Yes

2. Name and address of receiving party(ies):  
Name: **Hynix Semiconductor Inc.**  
Internal Address: \_\_\_\_\_  
Street Address: **San 136-1, Ami-ri, Bubal-eub,  
Ichon-shi**  
City: **Kyongki-do 467-860** State: \_\_\_\_\_ ZIP: \_\_\_\_\_  
Country: **Republic of Korea**  
Additional name(s) & address(es) attached?  No  Yes

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: 06/19/2004

4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of the application is: 06/19/04  
A. Patent Application No.(s) 10877886 B. Patent No.(s) \_\_\_\_\_  
Additional numbers attached?  No  Yes

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **Blakely, Sokoloff, Taylor & Zafman LLP**  
Internal Address: \_\_\_\_\_  
Street Address: 12400 Wilshire Boulevard  
7th Floor  
City: Los Angeles State: CA ZIP: 90025

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:  
02-2666  
(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.*  
**George W Hoover** \_\_\_\_\_  
Name of Person Signing Signature *George W Hoover* Date 6/23/04  
Total number of pages including cover sheet, attachments, and document: **4**

Mail documents to be recorded with required cover sheet information to:  
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07/06/2004 LNUELLER 00000224 10877886  
01 FC:8021 40.00 OP  
Docket No. 51876P648

PATENT  
REEL: 015525 FRAME: 0319

**ASSIGNMENT**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned,

**KIM, Se-Jun; HONG, Sang-Hoon and KO, Jae-Bum**

Hereby sells, assigns, and transfers to:

**Hynix Semiconductor Inc.**

a corporation of Republic of Korea, having a principal place of business at:

San 136-1, Ami-ri, Bubal-eub, Ichon-shi, Kyoungki-do 467-860, Republic of Korea ("Assignee"), and its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent,

which has been executed by the undersigned concurrently herewith,

which was filed \_\_\_\_\_ and assigned Serial No. \_\_\_\_\_

and is entitled:

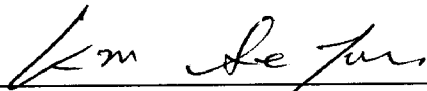
SEMICONDUCTOR MEMORY DEVICE HAVING OPTIMUM REFRESH CYCLE ACCORDING TO TEMPERATURE VARIATION

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

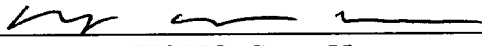
Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

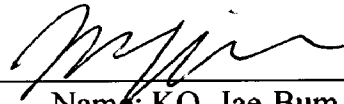
Date: June 19, 2004

  
Name: KIM, Se-Jun

Date: June 19, 2004

  
Name: HONG, Sang-Hoon

Date: June 19, 2004

  
Name: KO, Jae-Bum

Date: \_\_\_\_\_, 200

\_\_\_\_\_  
Name: