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Docket No.: SEC.1009

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OMB No. 0651-0027 (exp.5/31/2002)  
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SHEET

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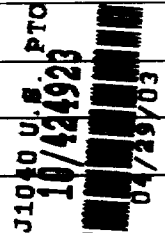
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
**PARK, Myun-joo**  
**LEE, Jae-jun**  
  
Additional names(s) of conveying party(ies)  Yes  No

4.29.03

2. Name and address of receiving party(ies):  
Name: **SAMSUNG ELECTRONICS CO., LTD.**  
Address: **416 Maetan-dong, Paldal-gu**  
  
City: **Suwon-city, Kyungki-do** State/Prov.: \_\_\_\_\_  
Country: **Republic of Korea** ZIP: \_\_\_\_\_  
  
Additional name(s) & address(es)  Yes  No



3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: **7 April 2003 and 14 April 2003**

4. Application number(s) or patent numbers(s):  
If this document is being filed together with a new application, the execution date of the application is: **7 & 14 April 2003**  
Patent Application No. **NEW** Filing date **29 April 2003**  
Additional numbers

10424923

B. Patent No.(s)  
 Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **KENNETH D. SPRINGER**  
Registration No. **39,843**  
Address: **VOLENTINE FRANCOS, P.L.L.C.**  
**12200 SUNRISE VALLEY DRIVE, SUITE 150**  
  
City: **RESTON** State/Prov.: **VA**  
Country: **USA** ZIP: **20191**

6. Total number of applications and patents involved: **1**  
7. Total fee (37 CFR 3.41):.....\$ **40.00**  
 Enclosed - Any excess or insufficiency should be credited or debited to deposit account  
 Authorized to be charged to deposit account  
8. Deposit account number:  
**50-0238**  
(Attach duplicate copy of this page if paying by deposit account)

05/02/2003 DBYRNE 00000007 500238 10424923 DO NOT USE THIS SPACE

9. Statement and signature.  
01 FL:8021 40.00 CH  
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.  
**KENNETH D. SPRINGER** **29 APRIL 2003**  
Name of Person Signing Signature Date  
Total number of pages including cover sheet, attachments, and **3**

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

**Insert Name(s)  
of Inventor(s)**

1. PARK, Myun-joo \_\_\_\_\_  
2. LEE, Jae-jun \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

the undersigned hereby sell(s) and assign(s) to

**Insert Name(s)  
of Assignee(s)**

Samsung Electronics Co., Ltd.  
of 416 Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

**Title of  
Invention**

SEMICONDUCTOR MEMORY DEVICE WITH DATA BUS SCHEME FOR REDUCING  
HIGH FREQUENCY NOISE

**Date of  
Signing of  
Application**

for which an application for patent in the United States of America has been executed by the undersigned on April 7, 2003 and April 14, 2003

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) to Adam C. Volentine, Reg. No. 33,289 and William S. Francos, Reg. No. 38,456, and the firm of VOLENTINE FRANCOS, P.L.L.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Apr. 7, 2003, Name of Inventor Myun-Joo Park  
 Myun-joo PARK

Date Apr. 14, 2003, Name of Inventor Jae-jun LEE  
 Jae-jun LEE

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

(Note regarding Witnessing and/or Acknowledgment: Acknowledgment before a United States Consul is preferred but not required. If not acknowledged, then it is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been acknowledged and/or witnessed.)

Witness \_\_\_\_\_

Witness \_\_\_\_\_

**ACKNOWLEDGMENT**

\_\_\_\_\_  
 \_\_\_\_\_

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 Applicant Reference No. SS-17564-US Atty Docket No. SEC.1009