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

1. Name of conveying party(ies):

LEE, Hi-choon
KIM, Kyung-ho

4-16-03

Additional names(s) of conveying party(ies) Yes No

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: April 14 and 16, 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: April 14 and 16, 2003

Patent Application No. Filing date

B. Patent No.(s)

NEW APRIL 16, 2003

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Additional numbers Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: ADAM C. VOLENTINE

Registration No. 33289

Address: VOLENTINE FRANCOS, PLLC

12200 SUNRISE VALLEY DRIVE, SUITE 150

City: RESTON State/Prov.: VA

Country: U.S.A. 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
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9. Statement and signature.

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.

ADAM C. VOLENTINE

APRIL 16, 2003

Name of Person Signing

Signature

3

Date

Total number of pages including cover sheet, attachments, and

VOLENTINE FRANCO, P.L.L.C. (9/2001)

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) Hi-choon LEE
Kyung-ho KIM

Insert _____
Name(s) of Assignee(s) & SAMSUNG ELECTRONICS CO., LTD.

Address(es) of 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea

Title of Invention (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

CIRCUIT FOR REMOVING NOISE FROM POWER LINE AND SEMICONDUCTOR
MEMORY DEVICE HAVING THE CIRCUIT

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 14, 2003 and April 16, 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.

VOLENTINE FRANCOS, P.L.L.C. (9/2001)

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. 14, 2003, Signature of Inventor *Hi-choon Lee*
Hi-choon LEE

Date Apr. 16, 2003, Signature of Inventor *Kyung-ho Kim*
Kyung-ho KIM

Date _____, Signature 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 if has not been acknowledged and/or witnessed.)

Witness _____

Witness _____

ACKNOWLEDGMENT

_____ ?

Applicant Reference No. SS-17165-US Atty Docket No. SEC.1046