

Docket No.: SEC.1985

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kwang-jin LEE
Choong-kenn KWAK
Du-cung KIM

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, Yeongtong-gu, Suwon-si**

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

City: **Gyeonggi-do** State/Prov.: _____
Country: **Republic of Korea** ZIP: _____

Execution Date: **June 21, 2007**

Additional name(s) & address(es) Yes No

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:

| Patent Application No. | Filing date |
|------------------------|----------------|
| 11/834,843 | August 7, 2007 |

B. Patent No.(s)

Additional numbers Yes No

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

Name: **STEPHEN R. WHITT**
Registration No. **34,753**
Address: **VOLENTINE & WHITT, PLLC**

ONE FREEDOM SQUARE
11951 FREEDOM DRIVE, SUITE 1260

City: **RESTON** State/Prov.: **VA**
Country: **USA** ZIP: **20190**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

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STEPHEN R. WHITT
Name of Person Signing

Stephen R. Whitt
Signature

August 7, 2007
Date

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VOLENTINE & WHITT, P.L.L.C. (01/2007)

ATTORNEY DOCKET NO. SEC.1985

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. Kwang-jin LEE | 7. _____ |
| 2. Choong-keun KWAK | 8. _____ |
| 3. Du-eung KIM | 9. _____ |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

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

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

Address(es)

_____ SAMSUNG ELECTRONICS CO., LTD.
416, Maetan-dong, Yeongtong-gu,
Suwon-si, Gyeonggi-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**

NONVOLATILE MEMORY DEVICE AND RELATED METHODS OF OPERATION

**Date of
Signing of
Application**

for which an application for patent in the United States of America has been executed by
the undersigned on June 21, 2007

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.

VOLENTINE & WHITT, P.L.L.C. (01/2007)

ATTORNEY DOCKET NO. SEC.1985

The undersigned hereby grant(s) the practitioners associated with the **CUSTOMER NUMBER 20987** 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.

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.

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

Date June 21, 2007 Signature of Inventor Kwang-jin Lee
Kwang-jin LEE

Date June 21, 2007 Signature of Inventor Choong-keun KWAK
Choong-keun KWAK

Date June 21, 2007 Signature of Inventor Du-eung KIM
Du-eung KIM

Date _____ Signature of Inventor _____

Date _____ Signature of Inventor _____

Date _____ Signature of Inventor _____

(Note regarding Witnessing: 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 witnessed.)

Witness _____

Witness _____

Applicant Reference No. SIP060132US