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## 1. Name of conveying party(ies):

Jin-Woo LEE  
Yong-Sung KIM  
Tae-Young CHUNG

## 2. Name and address of receiving party(ies):

Name: SAMSUNG ELECTRONICS CO., LTD.

Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
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City: Gyeonggi-do State/Prov.:

Country: Republic of Korea ZIP:

Execution Date: AUGUST 17, 2005

Additional name(s) &amp; 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: AUGUST 17, 2005

Patent Application No. Filing date

NEW AUGUST 25, 2005

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 FRANCO &amp; WHITT, PLLC

ONE FREEDOM SQUARE

11951 FREEDOM DRIVE, SUITE 1260

City: RESTON State/Prov.: VA

Country: U.S.A. ZIP: 20190

## 6. Total number of applications and patents involved:

1

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

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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.

STEPHEN R. WHITT  
Name of Person Signing

Signature

AUGUST 25, 2005

Date

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VOLENTINE FRANCO &amp; WHITT, P.L.L.C. (9/2004)

ATTORNEY DOCKET NO. SEC.1383

**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. <u>Jin-Woo LEE</u>     | 5. _____ |
| 2. <u>Yong-Sung KIM</u>   | 6. _____ |
| 3. <u>Tae-Young CHUNG</u> | 7. _____ |
| 4. _____                  | 8. _____ |

**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**

DRAM HAVING AT LEAST THREE LAYERED IMPURITY REGIONS BETWEEN CHANNEL HOLES AND METHOD OF FABRICATING SAME

**Date of  
Signing of  
Application**

for which an application for patent in the United States of America has been executed by the undersigned on \_\_\_\_\_

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 &amp; WHITT, P.L.L.C. (9/2004)

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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.

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

Date <u>2004. 08. 17.</u>	Signature of Inventor <u>Jin-woo Lee</u> Jin-Woo LEE
Date <u>2005. 08. 17</u>	Signature of Inventor <u>Yong-Sung Kim</u> Yong-Sung KIM
Date <u>2005. 08. 17</u>	Signature of Inventor <u>Tae Young Chung</u> Tae-Young CHUNG
Date _____	Signature of Inventor _____
Date _____	Signature of Inventor _____
Date _____	Signature of Inventor _____
Date _____	Signature of Inventor _____
Date _____	Signature of Inventor _____

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Applicant Reference No. SPX200407-0028US