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1. Name of conveying party(ies):

Hyun-Duk CHO
Young-Joon CHOI
Tae-Gyun KIM

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: **December 12, 2005**

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

Name: **Samsung Electronics, Co., Ltd.**Address: **416, Maetan-dong, Yeongtong-gu, Suwon-si**City: **Gyeonggi-do** State/Prov.: _____Country: **Republic of Korea** ZIP: _____

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☐ 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: **December 12, 2005**

Patent Application No.

Filing date

B. Patent No.(s)

NEW**December 16, 2005**

12/22/2005 DTESSEM1 00000059 11311589

04 FC:8021

40.00 DP

Additional numbers

☐ Yes ☒ No

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

Name: **BENJAMIN P. WESTOVER**Registration No. **56,612**Address: **VOLENTINE FRANCOS & 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:

17. 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:

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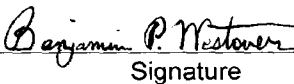
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9. Statement and signature.

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.

BENJAMIN P. WESTOVER

Name of Person Signing



Signature

December 16, 2005

Date

3

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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>Hyun-Duk CHO</u> | 5. _____ |
| 2. <u>Young-Joon CHOI</u> | 6. _____ |
| 3. <u>Tae-Gyun KIM</u> | 7. _____ |
| 4. _____ | 8. _____ |

Insert

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

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

SAMSUNG ELECTRONICS CO., LTD.
416, Maetan-dong, Yeongtong-gu,
Suwon-si, Gyeonggi-do, Republic of Korea

Address(es)

(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**

FLASH MEMORY DEVICE SUPPORTING CACHE READ 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 December 12, 2005

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.

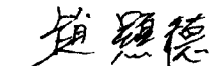
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

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) 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 DEC. 12, 2005 Signature of Inventor


Hyun-Duk CHO

Date Dec-12, 2005 Signature of Inventor


Young-Joon CHOI

Date Dec. 12, 2005 Signature of Inventor


Tae-Gyun KIM

Date _____ Signature of Inventor

Date _____ Signature of Inventor

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. ID14417-US