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1. Name of conveying party(ies):

Sang-Man BYUN
Sang-Seok KANG

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: February 8, 2007

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:

Additional name(s) & address(es)

☐ Yes ☒ No

. Application number(s) or patent numbers(s):

this document is being filed together with a new application, the execution date of the application is: February 8, 2007

Patent Application No.

Filing date

B. Patent No.(s)

NEW

February 23, 2007

Additional numbers

☐ Yes ☒ No

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

Name: BENJAMIN P. WESTOVER

Registration No. 56,612

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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Name of Person Signing

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Signature

February 23, 2007

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PATENT

REEL: 019048 FRAME: 0233

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>Sang-Man BYUN</u> | 4. _____ |
| 2. <u>Sang-Seok KANG</u> | 5. _____ |
| 3. _____ | 6. _____ |

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

PARALLEL BIT TEST CIRCUIT AND METHOD FOR SEMICONDUCTOR
MEMORY DEVICE

Date of
Signing of
Application

for which an application for patent in the United States of America has been executed by
the undersigned on February 8, 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.

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 02.08.2007 Signature of Inventor 
Sang-Man BRUN

Date 02.08.2007 Signature of Inventor Sang-Seok KANG
Sang-Seok KANG

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. SOV-000218-US