

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Chan Ho KIM</td> <td>12/10/2010</td> </tr> <tr> <td>Dong Kyu YOUN</td> <td>12/10/2010</td> </tr> <tr> <td>Sang Won HWANG</td> <td>12/10/2010</td> </tr> <tr> <td>Jin Yub LEE</td> <td>12/10/2010</td> </tr> </tbody> </table>		Name	Execution Date	Chan Ho KIM	12/10/2010	Dong Kyu YOUN	12/10/2010	Sang Won HWANG	12/10/2010	Jin Yub LEE	12/10/2010
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>SAMSUNG ELECTRONICS CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>416, Maetan-dong, Yeongtong-gu</td> </tr> <tr> <td>City:</td> <td>Suwon-si, Gyeonggi-do</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> <tr> <td>Postal Code:</td> <td>442-742</td> </tr> </table>		Name:	SAMSUNG ELECTRONICS CO., LTD.	Street Address:	416, Maetan-dong, Yeongtong-gu	City:	Suwon-si, Gyeonggi-do	State/Country:	REPUBLIC OF KOREA	Postal Code:	442-742
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (571)283-0740</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 5712830720</p> <p>Email: rbennett@volentine.com</p> <p>Correspondent Name: Stephen R. Whitt</p> <p>Address Line 1: Volentine &amp; Whitt, PLLC</p> <p>Address Line 2: 111951 Freedom Drive, Suite 1260</p> <p>Address Line 4: Reston, VIRGINIA 20190</p>											
ATTORNEY DOCKET NUMBER:	SEC.2872										
NAME OF SUBMITTER:	Stephen R. Whitt										
Total Attachments: 2											

CH \$40.00 13008441

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**PATENT**  
**REEL: 025669 FRAME: 0305**

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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>Chan Ho KIM</u>    | 7. _____  |
| 2. <u>Dong Kyu YOUN</u>  | 8. _____  |
| 3. <u>Sang Won HWANG</u> | 9. _____  |
| 4. <u>Jin Yub LEE</u>    | 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 442-742, 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**

METHOD AND APPARATUS FOR PERFORMING MULTI-BLOCK ACCESS  
OPERATION IN NONVOLATILE 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 December 10, 2010

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.


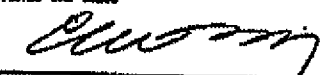
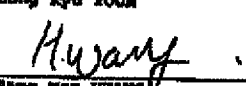
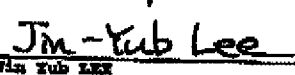
The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

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.

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

The undersigned hereby grant(s) the practitioners associated with the **CUSTOMER NUMBER 28997** 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.

Date	<u>2010.12.10</u>	Signature of Inventor	<u></u> Chan Ho KIM
Date	<u>2010.12.10</u>	Signature of Inventor	<u></u> Deng Kyu YOUN
Date	<u>2010.12.10</u>	Signature of Inventor	<u></u> Sang WON Hwang
Date	<u>2010.12.10</u>	Signature of Inventor	<u></u> Jin-Yub LEE
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. ID-191432-US