

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<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>Ho-Cheol LEE</td> <td>09/13/2010</td> </tr> <tr> <td>Chi-Sung OH</td> <td>09/13/2010</td> </tr> <tr> <td>Jin-Kuk KIM</td> <td>09/13/2010</td> </tr> </tbody> </table>		Name	Execution Date	Ho-Cheol LEE	09/13/2010	Chi-Sung OH	09/13/2010	Jin-Kuk KIM	09/13/2010		
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<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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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (571)283-0740 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 5712830720 Email: cjohnson@volentine.com Correspondent Name: VOLENTINE & WHITT, PLLC Address Line 1: 11951 FREEDOM DRIVE, SUITE 1260 Address Line 4: RESTON, VIRGINIA 20190</p>											
ATTORNEY DOCKET NUMBER:	SEC.2461										
NAME OF SUBMITTER:	Kenneth D. Springer										
<p>Total Attachments: 2 source=Executed_Assignment#page1.tif source=Executed_Assignment#page2.tif</p>											

CH \$40.00 12891141

501303324

PATENT
 REEL: 025052 FRAME: 0877

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>Ho-Cheol LEE</u> | 7. _____ |
| 2. <u>Chi-Sung OH</u> | 8. _____ |
| 3. <u>Jin-Kuk KIM</u> | 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 442-742, Republic of Korea

**Title of
Invention**

(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

SEMICONDUCTOR MEMORY DEVICES AND SEMICONDUCTOR PACKAGES

**Date of
Signing of
Application**

for which an application for patent in the United States of America has been executed by
the undersigned on September 13, 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.



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 SEP. 13, 2010 Signature of Inventor Ho-Cheol LEE
Ho-Cheol LEE

Date SEP. 13, 2010 Signature of Inventor Chi-Sung OH
Chi-Sung OH

Date SEP. 13, 2010 Signature of Inventor Jin-Rok KIM
Jin-Rok 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 if it has not been witnessed.)

Witness _____

Witness _____

Applicant Reference No. CX6018US/SS

