

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Toshiro Nakanishi</td> <td>02/17/2010</td> </tr> <tr> <td>Chanjin Park</td> <td>02/17/2010</td> </tr> <tr> <td>Siyoung Choi</td> <td>02/17/2010</td> </tr> <tr> <td>Bonyoung Koo</td> <td>02/17/2010</td> </tr> </tbody> </table>		Name	Execution Date	Toshiro Nakanishi	02/17/2010	Chanjin Park	02/17/2010	Siyoung Choi	02/17/2010	Bonyoung Koo	02/17/2010
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Bonyoung Koo	02/17/2010										
<b>RECEIVING PARTY DATA</b>											
Name:	Samsung Electronics Co., Ltd.										
Street Address:	416 Maetan-dong										
Internal Address:	Yeongtong-gu										
City:	Suwon-si, Gyeonggi-do										
State/Country:	KOREA, REPUBLIC OF										
Postal Code:	000										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12712366</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12712366						
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<b>CORRESPONDENCE DATA</b>											
Fax Number:	(919)854-1401										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	9198541400										
Email:	mmcMahon@myersbigel.com										
Correspondent Name:	Michele P. McMahan										
Address Line 1:	4140 Parklake Avenue										
Address Line 4:	Raleigh, NORTH CAROLINA 27612										
ATTORNEY DOCKET NUMBER:	5649-2901										
NAME OF SUBMITTER:	Michele P. McMahan										

CH \$40.00 12712366

**Total Attachments: 5**

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**ASSIGNMENT**

THIS ASSIGNMENT, made by us, **Toshiro Nakanishi**, citizen of Japan, residing at B-705, Royal Palace Housevill, Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; **Chanjin Park**, citizen of the Republic of Korea, residing at 102-1904, Sunny Valley Apt., Jigok-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **Siyong Choi**, citizen of the Republic of Korea, residing at 137-204, Parkwon Lotte Apt., Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; and **Bonyoung Koo**, citizen of the Republic of Korea, residing at 104-503, Hanil Town, Jowon-dong, Jangan-gu, Suwon-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **NON-VOLATILE SEMICONDUCTOR MEMORY DEVICES HAVING CHARGE TRAP LAYERS BETWEEN WORD LINES AND ACTIVE REGIONS THEREOF**, for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. We hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. 12/712,366, filed 2/25/10) the filing date and application number of said application when known or to file this Assignment concurrently with the application, and

WHEREAS, **Samsung Electronics Co., Ltd.**, a Korean corporation having a principal place of business at 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International



**ASSIGNMENT – CONTINUED**

Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 17 day of February, 2010.

  
**Toshiro Nakanishi**

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_



**ASSIGNMENT - CONTINUED**

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 17 day  
of February, 2010.

Chanjin Park  
Chanjin Park

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_



**ASSIGNMENT - CONTINUED**

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 17 day  
of February, 2010.

Siyoung Choi  
Siyoung Choi

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_

**ASSIGNMENT – CONTINUED**

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 17 day  
of February, 2010.

BONYOUNG KOO  
**Bonyoung Koo**

Witnessed by:

\_\_\_\_\_

Date: \_\_\_\_\_

