

PATENT ASSIGNMENT

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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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ju-Hyung Kim</td> <td>10/31/2008</td> </tr> <tr> <td>Sung-II Chang</td> <td>10/31/2008</td> </tr> <tr> <td>Chang-Seok Kang</td> <td>10/31/2008</td> </tr> <tr> <td>Jung-Dal Choi</td> <td>10/31/2008</td> </tr> </tbody> </table>		Name	Execution Date	Ju-Hyung Kim	10/31/2008	Sung-II Chang	10/31/2008	Chang-Seok Kang	10/31/2008	Jung-Dal Choi	10/31/2008
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RECEIVING PARTY DATA											
Name:	Samsung Electronics Co., Ltd.										
Street Address:	416 Maetan-dong										
Internal Address:	Paldal-gu										
City:	Suwon-city, Gyeonggi-do										
State/Country:	REPUBLIC OF KOREA										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12266032</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12266032						
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CORRESPONDENCE DATA											
Fax Number:	(919)854-1401										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	919-854-1400										
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NAME OF SUBMITTER:	Tracy Wallace										
<p>Total Attachments: 6 source=assignment#page1.tif</p>											

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ASSIGNMENT

THIS ASSIGNMENT, made by us, **Ju-Hyung Kim**, citizen of the Republic of Korea, residing at 111-104, Hyundai Apt., Pungdeokcheon 1-dong, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **Sung-II Chang**, citizen of the Republic of Korea, residing at 144-404, Hwanggol-maeul 1, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea. **Chang-Seok Kang**, citizen of the Republic of Korea, residing at 137-901, Parktown Lotte Apt., Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea. **Jung-Dal Choi**, a citizen of the Republic of Korea, residing at 106-1802, Hyundai 1-Park, Daechi-dong, Gangnam-gu, Seoul, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **NON-VOLATILE MEMORY DEVICES INCLUDING BLOCKING AND INTERFACE PATTERNS BETWEEN CHARGE STORAGE PATTERNS AND CONTROL ELECTRODES AND RELATED METHODS**, 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. 12/266,032, filed 11/6/08) 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, Paldal-gu, Suwon-city, 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 or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with

ASSIGNMENT – CONTINUED

any term extensions thereon or therefor, together with the right to claim the priority of said application in all foreign countries in accordance with the International 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 promptly 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; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

ASSIGNMENT - CONTINUED

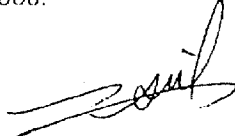
IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _____
day of October 31, 2008.



Ju-Hyung Kim (SEAL)

ASSIGNMENT – CONTINUED

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _____
day of October 31, 2008.



(SEAL)

Sung-II Chang

ASSIGNMENT – CONTINUED

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _____
day of October 31, 2008.

Changseok Kang (SEAL)
Chang-Seok Kang

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _____
day of Oct. 31, 2008.

Jungdal Choi (SEAL)
Jung-Dal Choi