

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>In-Gyu Baek</td> <td>12/26/2008</td> </tr> <tr> <td>Hyun-Jun Sim</td> <td>12/26/2008</td> </tr> <tr> <td>Jin-Shi Zhao</td> <td>12/26/2008</td> </tr> <tr> <td>Eun-Kyung Yim</td> <td>12/26/2008</td> </tr> </tbody> </table>		Name	Execution Date	In-Gyu Baek	12/26/2008	Hyun-Jun Sim	12/26/2008	Jin-Shi Zhao	12/26/2008	Eun-Kyung Yim	12/26/2008
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Eun-Kyung Yim	12/26/2008										
RECEIVING PARTY DATA											
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										
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>12353553</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12353553						
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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:	9198541400										
Email:	mcmahan@myersbigel.com										
Correspondent Name:	Michele P. McMahan										
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ATTORNEY DOCKET NUMBER:	5649-2534										
NAME OF SUBMITTER:	Michele P. McMahan										

CH \$40.00 12353553

Total Attachments: 3

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ASSIGNMENT

THIS ASSIGNMENT, made by us, **In-Gyu Baek**, citizen of the Republic of Korea, residing at #301-1301 Woosung 3-cha Apt., Jayang 3-dong, Gwangjin-gu, Seoul, Republic of Korea; **Hyun-Jun Sim**, citizen of the Republic of Korea, residing at #301 Jinan Village, 516-2 Jinan-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; **Jin-Shi Zhao**, citizen of the People's Republic of China, residing at #903-103 Imgwang geudeaka Apt., Byeongjeom-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; and **Eun-Kyung Yim**, citizen of the Republic of Korea, residing at \$312 Dasan Officetel, 1567-7 Bongcheon 4-dong, Gwanak-gu, Seoul, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **NONVOLATILE MEMORY DEVICES THAT USE RESISTANCE MATERIALS AND INTERNAL ELECTRODES, AND RELATED METHODS AND PROCESSING SYSTEMS** 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. _____, filed _____) 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

ASSIGNMENT – CONTINUED

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 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 26 day of December, 2008.



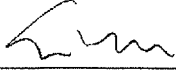
In-Gyu Baek (SEAL)

Witnessed by:

Date: _____

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 26 day
of Dec., 2008.




Hyun-Jun Sim (SEAL)

Witnessed by:

Date: _____

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 26 day
of December, 2008.

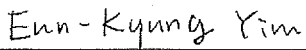


Jin-Shi Zhao (SEAL)

Witnessed by:

Date: _____

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 26 day
of Dec, 2008.



Eun-Kyung Yim (SEAL)

Witnessed by:

Date: _____