

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ho-Jung Kim	02/05/2010
Yeong-Taek Lee	02/07/2010
Chul-Woo Park	02/07/2010
Sang-Beom Kang	02/07/2010

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd.
Street Address:	416 Maetan-dong
Internal Address:	Yeongtong-gu, Suwon-si
City:	Gyeonggi-do
State/Country:	REPUBLIC OF KOREA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12703354

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	5649-2907
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NAME OF SUBMITTER:	Susan E. Freedman
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Total Attachments: 5
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**PATENT
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ASSIGNMENT

THIS ASSIGNMENT, made by us, **Ho-Jung Kim**, citizen of the Republic of Korea; **Yeong-Taek Lee**, citizen of the Republic of Korea; **Chul-Woo Park**, citizen of the Republic of Korea; **Sang-Beom Kang**, citizen of the Republic of Korea; with a mailing address at Intellectual Property Team, Samsung Semiconductor, Samsung Electronics Co., Ltd., San #16, Banwol-Dong, Hwasung -City, Gyeonggi-do, Republic of Korea, #445-701;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **RESISTIVE MEMORY DEVICES, MEMORY SYSTEMS AND METHODS OF CONTROLLING INPUT AND OUTPUT OPERATIONS OF THE SAME**, 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. 12/703,354, filed 02/10/2010) 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 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.



ASSIGNMENT – CONTINUED

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 5 day of Feb., 2010.

Ho Jung Kim (SEAL)
Ho-Jung Kim

Witnessed by: _____

Date: _____

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 17th day
of Feb. 07, 2010.

Yeong-Taek Lee (SEAL)
Yeong-Taek Lee

Witnessed by:

Date: _____



ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 7th day
of February, 2010.

Chul-woo Park (SEAL)
Chul-woo Park

Witnessed by:

Date: _____



ASSIGNMENT – CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 7th day
of Feb/10th, 2010



Sang-Beom Kang (SEAL)

Witnessed by:

Date: _____

