PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hyun-Ju Lee	06/26/2012
Jae-Kyu Lee	06/26/2012

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd.
Street Address:	129, Samsung-ro
Internal Address:	Yeongtong-gu, Suwon-si
City:	Gyeonggi-do
State/Country:	KOREA, REPUBLIC OF

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13599259

CORRESPONDENCE DATA

Fax Number: 9198541401 Phone: 919-854-1400

Email: sfreedman@myersbigel.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Susan E. Freedman/MBSS Correspondent Name:

Address Line 1: PO BOX 37428

Address Line 4: RALEIGH, NORTH CAROLINA 27627

ATTORNEY DOCKET NUMBER: 5649-3506

NAME OF SUBMITTER: Susan E. Freedman

Total Attachments: 3

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PATENT REEL: 028876 FRAME: 0140

Attorney Docket No. 5649-3506

ASSIGNMENT

THIS ASSIGNMENT, made by us, Hyun-Ju LEE, citizen of the Republic of Korea, residing at 919-13 Cheongnyong-dong, Gwanak-gu, Scoul, Republic of Korea; and Jae-Kyu LEE, citizen of the Republic of Korea, residing at 525-1502 Hyundai HomeTown Apt., 1269, Jukjeon-dong, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in PROTRUDING POST RESISTIVE MEMORY DEVICES AND METHODS OF MANUFACTURING 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. 13/599,259, filed 08-30-2012 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 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742 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.

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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.

assignee, its succe	essors, assigns and other rega	i representatives.	
IN WITN	ESS WHEREOF, I have here	aunto set my hand and seal on this	i <u>2644</u> day
of June	, 20 <u>/2</u> .		
	Hyun-Ju LEE	(SEAL)	
Witnessed by:			
Data			
Date:			

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Attorney Docket No. 5649-3506

ASSIGNMENT - CONTINUED

IN WITN	ESS WHEREOF, I have hereum	to set my hand and seal on this	_26_day
of June	, 20 <u>12</u> .		
	Jac-Kyu LEE	(SEAL)	
Witnessed by:			
Date			

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