

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>In-bo Shim</td> <td>09/04/2012</td> </tr> <tr> <td>Woo-sung Cho</td> <td>09/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	In-bo Shim	09/04/2012	Woo-sung Cho	09/04/2012
Name	Execution Date						
In-bo Shim	09/04/2012						
Woo-sung Cho	09/04/2012						
RECEIVING PARTY DATA							
Name:	Samsung Electronics Co., Ltd.						
Street Address:	129, Samsung-ro						
Internal Address:	Yeongtong-gu						
City:	Suwon-si, Gyeonggi-do						
State/Country:	KOREA, REPUBLIC OF						
Postal Code:	443-742						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13604681</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13604681		
Property Type	Number						
Application Number:	13604681						
CORRESPONDENCE DATA							
Fax Number:	9198541401						
Phone:	9198541400						
Email:	mmcmahan@myersbigel.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	Michele P. McMahan						
Address Line 1:	4140 Parklake Avenue						
Address Line 4:	Raleigh, NORTH CAROLINA 27612						
ATTORNEY DOCKET NUMBER:	5649-3539						
NAME OF SUBMITTER:	Michele P. McMahan						
Total Attachments: 3 source=5649-3539-Assignment#page1.tif source=5649-3539-Assignment#page2.tif source=5649-3539-Assignment#page3.tif							

CH \$40.00 13604681

ASSIGNMENT

THIS ASSIGNMENT, made by us, **In-bo Shim**, citizen of the Republic of Korea, residing at #102-1004, Daerim e-Pyeonhansesang 1 Danji Apt., Wondong, Osan-si, Gyeonggi-do, Republic of Korea; and **Woo-sung Cho**, citizen of the Republic of Korea, residing at Rm. 301, 404-17, Seongnae 3-dong, Gangdong-gu, Seoul, Republic of Korea;

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in **SECONDARY MEMORY UNITS AND SYSTEMS INCLUDING 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. 13/604,681, filed 9/6/12) 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.

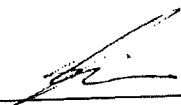
We hereby request that said Letters Patent be issued in accordance with this assignment.

ASSIGNMENT – CONTINUED

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 tues day of 04-09, 2012.




In-bo Shim (SEAL)

Witnessed by:

Date: _____

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 04 day
of 09, 2012.



Woo-sung Cho (SEAL)

Witnessed by:

Date: _____