

## 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>Su-Jin AHN</td> <td>06/13/2012</td> </tr> <tr> <td>Kyung-Tae NAM</td> <td>06/13/2012</td> </tr> </tbody> </table>		Name	Execution Date	Su-Jin AHN	06/13/2012	Kyung-Tae NAM	06/13/2012		
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Su-Jin AHN	06/13/2012								
Kyung-Tae NAM	06/13/2012								
RECEIVING PARTY DATA									
<table border="1"> <tr> <td>Name:</td> <td>Samsung Electronics Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>416, Maetan-dong, Yeongtong-gu,</td> </tr> <tr> <td>City:</td> <td>Suwon-si, Gyeonggi-do</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> </table>		Name:	Samsung Electronics Co., Ltd.	Street Address:	416, Maetan-dong, Yeongtong-gu,	City:	Suwon-si, Gyeonggi-do	State/Country:	KOREA, REPUBLIC OF
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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>13532811</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13532811				
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CORRESPONDENCE DATA									
<p>Fax Number: (503)517-9919          Phone: 5038962643          Email: mail@renaissanceiplaw.COM  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: HOSOON LEE          Address Line 1: 9600 SW OAK ST. SUITE 560          Address Line 4: Portland, OREGON 97223</p>									
ATTORNEY DOCKET NUMBER:	8421-014								
NAME OF SUBMITTER:	Hosoon Lee								
<p>Total Attachments: 2          source=8421-014_signed-assignment-cute#page1.tif          source=8421-014_signed-assignment-cute#page2.tif</p>									

OP \$40.00 13532811

**ASSIGNMENT**

**Assignor:** Su-Jin AHN

**Address:** 412-1001 Solbit Maeul SeohaeGrangbl Apt., Bansong-dong,  
Hwaseong-si, Gyeonggi-do, Republic of Korea

**Assignor:** Kyung-Tae NAM

**Address:** 113-1501 Jugong Apt., Yeongtong-dong, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, Republic of Korea

**Assignee:** Samsung Electronics Co., Ltd.

**Address:** 416, Maetan-dong, Yeongtong-gu, Suwon-si,  
Gyeonggi-do, Republic of Korea

**Title of Invention:** MAGNETIC RANDOM ACCESS MEMORY DEVICE AND  
METHOD OF WRITING DATA THEREIN

**U.S. Patent Application:**

**Application Serial No.:**

**Filing Date:**

**U.S. Patent No.:**

**Issued:**

For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the full and exclusive right, title and interest in and to the above-identified invention, patent application and patent rights throughout the world, including foreign patent priority rights; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues, non-provisionals and extensions thereof, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and covenant that Assignor has full right so to do, and agree that Assignor will communicate to Assignee, or its successors and assigns, any facts known to Assignor respecting said invention, and

testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, non-provisional and reissue applications, make all rightful oaths, and do everything possible to aid Assignee, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

In the event that the patent application filing date or serial number is not known at the time this document is executed, Assignor hereby grants permission to the attorneys of record in the patent application to fill in the filing date and/or serial number above, and to record this assignment after such information is added.

Executed at Hwaseong, Korea, this 13 day of  
June, 2012.  
(city) (country)

Su Jin AHN

Su-Jin AHN  
Assignor

Executed at Hwaseong, Korea, this 13 day of  
June, 2012.  
(city) (country)

Kyung-Tae NAM

Kyung-Tae NAM  
Assignor