

## 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>You-Keun HAN</td><td>12/02/2008</td></tr><tr><td>Seung-Jin SEO</td><td>12/04/2008</td></tr><tr><td>Kwan-Yong JIN</td><td>12/04/2008</td></tr><tr><td>Jung-Hwan CHOI</td><td>12/05/2008</td></tr><tr><td>Jong-Hoon KIM</td><td>12/02/2008</td></tr><tr><td>Seok-II KIM</td><td>12/04/2008</td></tr><tr><td>Joo-Sun CHOI</td><td>12/05/2008</td></tr></tbody></table>	Name	Execution Date	You-Keun HAN	12/02/2008	Seung-Jin SEO	12/04/2008	Kwan-Yong JIN	12/04/2008	Jung-Hwan CHOI	12/05/2008	Jong-Hoon KIM	12/02/2008	Seok-II KIM	12/04/2008	Joo-Sun CHOI	12/05/2008	
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Name:	Samsung Electronics Co., Ltd.																
Street Address:	416 Maetan-dong, Yeongtong-gu, Suwon-si																
City:	Gyeonggi-do																
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF																
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>12330351</td></tr></tbody></table>	Property Type	Number	Application Number:	12330351													
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Application Number:	12330351																
CORRESPONDENCE DATA																	
Fax Number:	(503)274-4622																
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PATENT  
REEL: 021957 FRAME: 0088

Total Attachments: 2  
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PATENT APPLICATION  
Client Ref. No.: CX5026US(CIP)/KI

### ASSIGNMENT

U.S.A. Patent Application  
Sole or Joint  
For Inventions Made Outside U.S.A.  
Executed With Application

In consideration of the sum of Ten Dollars (10.00) and other good and valuable considerations paid to each of the undersigned, to wit:

- (1) You-Keun HAN
- (2) Seung-Jin SEO
- (3) Kwan-Yong JIN
- (4) Jung-Hwan CHOI
- (5) Jong-Hoon KIM
- (6) Seok-II KIM
- (7) Joo-Sun CHOI

☐ X if continued on separate page

the receipt and sufficiency of which are hereby acknowledged by the undersigned who hereby sell(s), assign(s) and transfer(s) unto:

**SAMSUNG ELECTRONICS CO., LTD.**  
**416 MAETAN-DONG, YEONGTONG-GU**  
**SUWON-SI, GYEONGGI-DO**  
**REPUBLIC OF KOREA**

(hereinafter designated "ASSIGNEE") the entire right, title and interest in and to the invention as defined in 35 USC §100, for the United States of America, the invention entitled:

### MEMORY MODULES AND MEMORY SYSTEMS HAVING THE SAME

for which an application for Letters Patent of the United States of America has been executed even date herewith by the undersigned, and in and to any and all divisionals, continuations, substitutes, and reissues thereof; and all resulting patents and the undersigned hereby authorizes and requests the United States Assistant Commissioner of Patents to issue said Letters Patent to ..... the said ASSIGNEE, for its interests as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

And the undersigned hereby agrees to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.



Please sign  
concurrently  
 with Oath or Declaration  
 and Power of Attorney

SIGNED ON THE DATES INDICATED BESIDE OUR SIGNATURES:

<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESSED</u>
(1) <u>한근우</u> You-Keun HAN	<u>2008.12.2</u>	_____
(2) <u>Seung Jin SEO</u> Seung-Jin SEO	<u>2008.12.4</u>	_____
(3) <u>Kwan Yong JIN</u> Kwan-Yong JIN	<u>2008.12.4</u>	_____
(4) <u>Jung-Hwan Choi</u> Jung-Hwan CHOI	<u>2008.12.5</u>	_____
(5) <u>Jonghoon Kim</u> Jong-Hoon KIM	<u>2008.12.2</u>	_____
(6) <u>Seok Il KIM</u> Seok-II KIM	<u>2008.12.4</u>	_____
(7) <u>Joo Sun Choi</u> Joo-Sun CHOI	<u>2008.12.5</u>	_____

PLEASE RETURN RECORDED ASSIGNMENT TO:

Alan T. McCollom  
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 210 S.W. Morrison Street, Suite 400

