

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Hyoung-Seok Kim	10/18/2010
Kwan-Yong Jin	10/18/2010
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	416, Maetan-dong, Yeongtong-gu,
City:	Suwon-si, Gyeonggi-do,
State/Country:	REPUBLIC OF KOREA
Postal Code:	442-742
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12851718
CORRESPONDENCE DATA	
Fax Number:	(571)283-0740
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	5712830720
Email:	aloomis@volentine.com
Correspondent Name:	VOLENTINE & WHITT, PLLC
Address Line 1:	11951 FREEDOM DRIVE, SUITE 1260
Address Line 4:	RESTON, VIRGINIA 20190
ATTORNEY DOCKET NUMBER:	SEC.2793
NAME OF SUBMITTER:	ADAM C. VOLENTINE
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif	

CH \$40.00 12851718

501322190

PATENT
REEL: 025148 FRAME: 0380

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Insert
Name(s) of
Inventor(s)

- | | |
|--------------------------|-----------|
| 1. <u>Hyung-Seok KIM</u> | 7. _____ |
| 2. <u>Kwan-Yong JIN</u> | 8. _____ |
| 3. _____ | 9. _____ |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

Insert
Name(s) of
Assignee(s) &

the undersigned hereby sell(s) and assign(s) to

Address(es)

SAMSUNG ELECTRONICS CO., LTD.
416, Maetan-dong, Yeongtong-gu,
Suwon-si, Gyeonggi-do 442-742, Republic of Korea

Title of
Invention

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

INPUT BUFFER CIRCUIT, SEMICONDUCTOR MEMORY DEVICE AND
MEMORY SYSTEM

Date of
Signing of
Application

for which an application for patent in the United States of America has been executed by the undersigned on October 18, 2010

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby grant(s) the practitioners associated with the **CUSTOMER NUMBER 20987** the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Oct 18, 2010 Signature of Inventor [Signature]
Byoung-Seok KIM

Date Oct 18, 2010 Signature of Inventor [Signature]
Kwan-Yong JIN

Date _____ Signature of Inventor _____

Date _____ Signature of Inventor _____

Date _____ Signature of Inventor _____

Date _____ Signature of Inventor _____

(Note regarding Witnessing: It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.)

Witness _____

Witness _____

Applicant Reference No. CX5024US/KI