### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Yeong-Tae LEE	10/16/2006

#### **RECEIVING PARTY DATA**

Name:	Samsung Electronics Co., Ltd.	
Street Address:	416 Maetan-Dong, Yeongtong-Gu, Suwon-Si	
City:	Gyeonggi-do	
State/Country:	KOREA, REPUBLIC OF	

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11560223

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NAME OF SUBMITTER: Hosoon Lee

Total Attachments: 2

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OP \$40.00

PATENT REEL: 018523 FRAME: 0358

PATENT APPLICATION Docket No.: 8750-199

Client Ref. No.: SPX200511-0012US

#### 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) Yeong-Taek LEE	
. ,	X if continued on separate page
the receipt and sufficiency sell(s), assign(s) and trans	of which are hereby acknowledged by the undersigned who hereby

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:

# SEMICONDUCTOR MEMORY DEVICE AND DATA WRITE AND READ METHODS THEREOF

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 interest 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:

**INVENTOR(S)** 

**DATE SIGNED** 

(1) Yeong-Tack Lee Oct. 16, 2006 Young-Tack LEE

PLEASE RETURN RECORDED ASSIGNMENT TO:

Alan T. McCollom Marger Johnson & McCollom 210 S.W. Morrison Street, Suite 400 Portland, OR 97204

**RECORDED: 11/15/2006**