PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yoon-Jong SONG	10/29/2007
Kyung-Chang RYOO	10/26/2007
Dong-Won LIM	10/26/2007

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:	11932781

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ATTORNEY DOCKET NUMBER: 8750-215

NAME OF SUBMITTER: Hosoon Lee

Total Attachments: 3

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PATENT REEL: 020048 FRAME: 0033 JP \$40.00 11932

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PATENT REEL: 020048 FRAME: 0034

PATENT APPLICATION Docket No.: 8750-215

Client Ref. No.: SPX200609-0012US

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) Yoon-Jong SONG
- (2) Kyung-Chang RYOO
- (3) Dong-Won LIM

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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:

PHASE CHANGE MEMORY DEVICES HAVING DUAL LOWER ELECTRODES AND METHODS OF FABRICATING 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 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.

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Please sign
concurrently
with Oath or Declaration
and Power of Attorney

SIGNED ON THE DATES INDICATED BESIDE OUR SIGNATURES:

IN	VENTOR(S)	DATE SIGNED	WITNESSED
(1)	Youn-Jong SONG	oct.29.2001)	
	Yoon-Jong SONG		
(2)	Kyung-Chang RYOO		
(3)	Dong-Won LIM		

PLEASE RETURN RECORDED ASSIGNMENT TO:

Alan T. McCollom Marger Johnson & McCollom 210 S.W. Morrison Street, Suite 400 Portland, OR 97204 Please sign concurrently with Oath or Declaration and Power of Attorney

SIGNED ON THE DATES INDICATED BESIDE OUR SIGNATURES:

INVENTOR(S)	DATE SIGNED	WITNESSED
(1) Yoon-Jong SONG		
(2) Kyung -Chang Ry Kyung-Chang RYC	00 36th, oct 2007	Mo
(3) <u>Dong-Won Lim</u> Dong-Won LIM	26 ^{HL} , OCT, 2007	Lilmon

PLEASE RETURN RECORDED ASSIGNMENT TO:

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

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RECORDED: 10/31/2007