

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	
Execution Date	
Soo-doo Chae	01/06/2009
Chung-woo Kim	03/13/2009
Choong-man Lee	01/06/2009
Yung-hee Lee	01/20/2009
Chan-jin Park	01/06/2009
Sung-wook Hwang	03/10/2009
Jeong-hee Han	01/06/2009
Do-haing Lee	01/29/2009
Jin-seok Lee	01/12/2009
RECEIVING PARTY DATA	
Name:	Samsung Electronics Co., Ltd.
Street Address:	416 Maetan-dong, Yeongtong-gu, Suwon-si
City:	Gyeonggi-do
State/Country:	REPUBLIC OF KOREA
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12346934
CORRESPONDENCE DATA	
Fax Number:	(919)854-1401
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	919-854-1400
Email:	cgregory@myersbigel.com
Correspondent Name:	MYERS BIGEL SIBLEY & SAJOVEC/cgregory
Address Line 1:	PO BOX 37428
Address Line 4:	RALEIGH, NORTH CAROLINA 27627
ATTORNEY DOCKET NUMBER:	5649-2473

CH \$40.00 12346934

PATENT

NAME OF SUBMITTER:

Carey Gregory

Total Attachments: 10

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ASSIGNMENT

THIS ASSIGNMENT, made by us, **Soo-doo Chae**, citizen of the Republic of Korea, residing at 521-603, Hyundai Hometown 4-cha 2-danji Apt., Jukjeon-dong, Suji-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **Chung-woo Kim**, citizen of the Republic of Korea, residing at 115-206, Neulpureun Byoksan Apt., Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; **Choong-man Lee**, citizen of Republic of Korea, residing 3F., 77-3, Sancheon-dong, Yongsan-gu, Seoul, Republic of Korea; **Yung-hee Lee**, citizen of the United States of America, residing at Rm.501, Ujeong Esher, 1355-24, Seocho 2-dong, Seocho-gu, Seoul, Republic of Korea; **Chan-jin Park**, citizen of the Republic of Korea, residing at 102-1904, Sunny-valley Apt., Jigok-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **Sung-wook Hwang**, citizen of the Republic of Korea, residing at 107-1003, Samsung Cheongdam Gongwon Apt., Cheongdam-dong, Gangnam-gu, Seoul, Republic of Korea; **Jeong-hee Han**, citizen of the United States of America, residing at 622-201, Naru Maeul Hanwa Ggumegreen Apt., Bansong-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; **Do-haing Lee**, citizen of the Republic of Korea, residing at 105-905 Hanil Town Apt., Byeongjeom-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea and **Jin-seok Lee**, citizen of the Republic of Korea, residing at 201-801, Purigio Apt., Munjeong 1-dong, Songpa-gu, Seoul, Republic of Korea;

WITNESSETH: That, WHEREAS, we are the joint inventors of certain new and useful improvements in **METHODS OF MANUFACTURING NON-VOLATILE MEMORY DEVICES HAVING INSULATING LAYERS TREATED USING NEUTRAL BEAM IRRADIATION** for which an application for United States Letters Patent has been filed, or is being filed concurrently, in the United States Patent and Trademark Office. We hereby authorize and request Myers Bigel Sibley & Sajovec, P.A., to insert here in parentheses (Application No. 12/346,934, filed December 31, 2008) the filing date and application number of said application when known or to file this Assignment concurrently with the application, and

WHEREAS, **Samsung Electronics Co., Ltd.**, a Korean corporation having a principal place of business at 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;



ASSIGNMENT - CONTINUED

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to bind our heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 6th day of January, 2009.

Shal Soodo (SEAL)
Soo-doo Chae

Witnessed by:

Date: _____



ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 15th day
of March, 2009.

Chung-woo Kim (SEAL)
Chung-woo Kim

Witnessed by:

Date: _____

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 6th day
of JANUARY, 2009.



Choong-man Lee (SEAL)

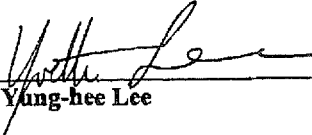
Witnessed by:

Date: _____



ASSIGNMENT - CONTINUED

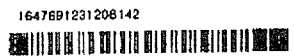
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 20th day
of January, 2009.



Yung-hee Lee (SEAL)

Witnessed by:

Date: _____



ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 6th day
of January, 2009.

Chan-jin Park (SEAL)
Chan-jin Park

Witnessed by:

Date: _____



Attorney Docket 5649-2473

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 10th day
of March, 2009.

 (SEAL)
Sung-wook Hwang

Witnessed by:

Date: _____

ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 6th day
of January, 2009.

 (SEAL)
Jeong-hee Han

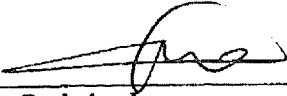
Witnessed by:

Date: _____



ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 29th day
of January, 2009.



Do-haing Lee (SEAL)

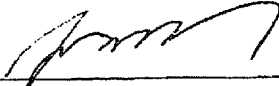
Witnessed by:

Date: _____



ASSIGNMENT - CONTINUED

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day
of January, 2009.



Jin-seok Lee (SEAL)

Witnessed by:

Date: _____

