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U.S. PTO  
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557-000802/  
Page 1 of

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### RECORDATION FORM COVER SHEET

To the Honorable Commissioner of Patents and Trademarks:  
Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Kyoung-lae CHO Jae-woong HYUN Sung-jae BYUN Kyu-charn PARK Yoon-dong PARK Choong-ho LEE</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: SAMSUNG ELECTRONICS CO., LTD</p> <p>Street Address: 416, Maetan-dong, Yeongtong-g City: Suwon-si, Gyeonggi-do Country: Korea</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment    <input type="checkbox"/> Merger    <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name    <input type="checkbox"/> Other:</p> <p>Execution Date: December 3, 2007</p>	

4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of the application is: December 3, 2007

A. Patent Application No(s).      B. Patent No.(s).

Additional numbers attached?  YES  NO

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <b>HARNES, DICKEY &amp; PIERCE, P.L.C.</b> Street Address: <b>P.O. BOX 8910</b> City: <b>RESTON</b>    State: <b>VA</b>    ZIP: <b>20195</b> Country: <b>USA</b></p>	<p>6. Total No. of applications/patents involved: <b>One (1)</b></p> <p>7. Total fee (37 C.F.R. § 3.41): <b>\$40.00</b> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account, if no fee attached.</p> <p>8. Deposit account number: <u>08-0750</u></p> <p>(Attach triplicate copy of this page if paying by deposit account)</p>
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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

John A. Castellano, #35,094      [Signature]      December 13, 2007  
Name of Person Signing/Reg. No.      Signature      Date

Total number of pages including cover sheet, attachments, and document:

12/14/2007 DEHMANU1 00000042 12000493 JAC:m  
04 FC:0021 (40.00 OP)

Atty. Docket No. 2557-000802/US

**ASSIGNMENT**

**WHEREAS**, the undersigned hereinafter referred to collectively as Assignor, has invented:

**MEMORY CELL PROGRAMMING METHODS CAPABLE OF REDUCING  
COUPLING EFFECTS**

for which Assignor is about to make or has made United States or International application for patent

- (a)  executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b)  executed on \_\_\_\_\_, \_\_\_\_\_; or
- (c)  filed on \_\_\_\_\_, and assigned Serial No. \_\_\_\_\_ or PCT International Application No. \_\_\_\_\_;
- (d)  U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_; and

**WHEREAS**, Samsung Electronics Co., Ltd., 416, Maetan-Dong, Yeongtong-Gu, Suwon-si, Gyeonggi-do, Republic of Korea, and hereinafter referred to as Assignee, is desirous of acquiring an interest therein:

**NOW, THEREFORE**, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full and of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom:

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. 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 U.S. Patent and Trademark Office for recordation of this document.

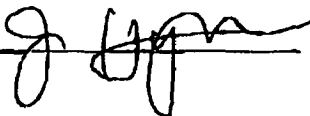
Atty. Docket No. 2557-000802/US

**ASSIGNMENT**



\_\_\_\_\_  
Kyung-iae CHO

3/December/2007  
Dated



\_\_\_\_\_  
Jae-woong HYUN

3/December/2007  
Dated



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Sung-jae BYUN

3/December/2007  
Dated



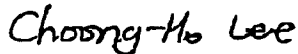
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Kyu-cham PARK

3/December/2007  
Dated



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Yoon-dong PARK

3/December/2007  
Dated



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Choong-ho LEE

3/December/2007  
Dated