

Form PTO-1595 (Rev. 03-09)  
OMB No. 0651-0027 (exp. 03/31/2009)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

## RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Chan-kyung Kim

**2. Name and address of receiving party(ies)**Name: Samsung Electronics Co., Ltd.

Internal Address: \_\_\_\_\_

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) December 30, 2009☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424, Confirmatory License☐ Other \_\_\_\_\_Street Address: 416, Maetan-dong, Yeongtong-guCity: Suwon-siState: Gyeonggi-doCountry: Republic of Korea Zip: \_\_\_\_\_Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)

12/651,725

Document ID No. 700426227

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Patrick D. Muir

Internal Address: \_\_\_\_\_

Street Address: Muir Patent Consulting, PLLC758 Walker Road, Suite CCity: Great FallsState: VAZip: 22066Phone Number: 703-757-7880Fax Number: 703-757-7447Email Address: patrick@muirpatentconsulting.com**6. Total number of applications and patents involved: 1****7. Total fee (37 CFR 1.21(h) & 3.41) \$40**

\$40 previously paid, corrected submission

☒ Authorized to be charged to deposit account☐ Enclosed☐ None required (government interest not affecting title)**8. Payment Information**Deposit Account Number 50-4574Authorized User Name Patrick D. Muir**9. Signature:**/Bradley Edelman/ Reg. No. 57,648

Signature

January 27, 2010

Date

Bradley Edelman, Reg. No. 57,648

Name of Person Signing

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

3

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

700427977

**PATENT**  
**REEL: 023858 FRAME: 0406**

CH \$40.00 504574 12651725

SAM-278  
SS-33761-US**ASSIGNMENT**I, Chan-kyung Kim ("Assignor"), have an interest in the invention entitled:**CIRCUIT FOR REDUCING DUTY DISTORTION IN A SEMICONDUCTOR  
MEMORY DEVICE**

which is the subject of a United States or International application for patent entitled above and naming the undersigned inventor

- ☐ in a Provisional Patent Application No. \_\_\_\_\_;  
☒ in a Non-Provisional Application along with a Declaration signed today with this assignment;  
☐ in a Non-Provisional Application where the Declaration was signed on \_\_\_\_\_;  
☐ in a Non-Provisional Application filed on \_\_\_\_\_ and assigned Serial No. \_\_\_\_\_;  
or PCT International Application No. \_\_\_\_\_;  
☐ in U.S. Patent No. \_\_\_\_\_ issued \_\_\_\_\_.

Samsung Electronics Co. LTD., 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, ("Assignee"), is desirous of acquiring Assignor's interest in the invention.

Assignor acknowledges receipt and adequacy of good and valuable consideration in exchange for this Assignment, and assigns to Assignee and its successors in interest, the full and exclusive right, title and interest to any and all inventions, developments and improvements disclosed or described in the patent application listed above ("the invention"), 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, for the full term of the patent, including extensions of time, the same as if held by Assignor had this Assignment not been made. This Assignment includes the assignment of the right to recover for past infringements of, or liabilities for, any of the rights related to the invention.

Assignor covenants and agrees to cooperate with Assignee and execute all instruments or documents 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 the following: provisional, continuation, continuation-in-part, divisional, renewal or substitute, reissue, re-examination, or extension. Assignor covenants and agrees to cooperate with Assignee in any litigation regarding the invention, patents or applications regarding the invention, and render all necessary assistance deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred without further or other compensation than that provided in this Assignment; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE.

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

Assignor 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, issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

Assignor hereby grants the firm of MUIR PATENT CONSULTING, PLLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of any issuing authority, including the United States Patent and Trademark Office, for recordation of this document.

Chan-kyung Kim

(signature)

Assignor: Chan-kyung Kim

On this 30 day of 12, 2009.

01/27/2010 12:02 FAX 7037577447

To: 711698849495882205588888 Page: 3

6559 882

01/27/2010 12:02 FAX 7037577447

PATENT

01/27/2010 12:02 FAX 7037577447

RECORDED: 01/04/2010

REEL: 023858 FRAME: 0407