U.S. PTO 12/380622 Form PTO-1595 (Rev. 06/04) U.S. DEPARTMENT OF COMMERCE 03/02/2009 OMB No. 0651-0027 (exp. 6/30/2005) Inited States Patent and Trademark Office 03-12-2009 RECOF SAMS06-08283 nents or the new address(es) below. To the Director of the U.S. Patent and Trade 1. Name of conveying party(ies)/Execution Date(s): 12. Name and address of receiving party(ies) Cheol-Woo Ahn Name: Samsung Electronics Co., Ltd. Internal Address: Execution Date(s) February 25, 2009 Street Address: 416, Maetan-dong, Yeongtong-gu. Additional name(s) of conveying party(ies) attached? Yes 🗸 No Suwon-si, Gyeonggi-do, 442-370 3. Nature of conveyance: ✓ Assignment Merger City: _____ __ Security Agreement L Change of Name Government Interest Assignment Country: Republic of Korea Zip: Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? ☐ Yes ☑ No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? ☐ Yes ✓ No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: Name: Docket Clerk 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Internal Address: Authorized to be charged by credit card Authorized to be charged to deposit account I Enclosed Street Address: P.O. Drawer 800889 None required (government interest not affecting title) 8. Payment Information City: Dallas a. Credit Card Last 4 Numbers Zip:<u>75380</u> State: Texas Expiration Date _____ Phone Number: 972-628-3600 b. Deposit Account Number ______50-0208 Fax Number: 972-628-3616 Authorized User Name William A. Munck

> Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450 03/04/2009 CNGUYEN2 00000004 12380622

Signature

Name of Person Signing

Email Address:

9. Signature:

William A. Munck

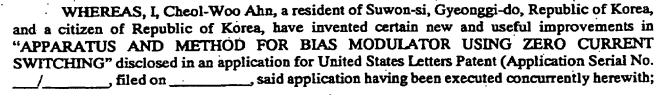
PATENT

Total number of pages including cover

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March 2, 2009

ASSIGNMENT



WHEREAS, SAMSUNG ELECTRONICS CO., LTD, a corporation organized under the laws of the Republic of Korea, having a place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 442-370, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; I authorize William A. Munck or John T. Mockler of Munck Carter, LLP to insert in the parenthesis above the application number and filing date of said application when known; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of my entire right, title and interest.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Ahm cheel woo

CHEOL-WOO AHN

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PATENT REEL: 022397 FRAME: 0817

RECORDED: 03/02/2009