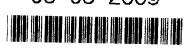
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U.S. PTO 12/378906 02/20/2009

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FORM COVER SHEET

NTS ONLY 103551033 . Please record the attached documents or the new address(es) below. To the Dir 1. Name of conveying party(ies)/Execution Date(s): 2. Name and address of receiving party(ies) Name: Samsung Electronics Co., Ltd. David Mazzarese Internal Address: Execution Date(s) February 16, 2009 Street Address: 416, Maetan-dong, Yeongtong-gu, Additional name(s) of conveying party(ies) attached?___ Suwon-si, Gyeonggi-do, 442-370 3. Nature of conveyance: ✓ Assignment Merger City: Security Agreement Change of Name State: 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 | 6. Total number of applications and patents 5. Name and address to whom correspondence concerning document should be mailed: involved: Name: Munck Carter, LLP 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Internal Address: Docket Clerk Authorized to be charged by credit card Authorized to be charged to deposit account ☑ 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: 75380 State: Texas ರ್ಷ ೯೬೫**Expi**ration **Date** <u>ಸಕ</u> Phone Number: <u>972-628-3</u>600 b. Deposit Account Number _____ Fax Number: 972-628-3616 Authorized User Name William A. Munck Email Address: 9. Signature: , February 20, 2009 Signature William A. Munck Total number of pages including cover

> 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

Name of Person Signing

sheet, attachments, and documents:

ASSIGNMENT

WHEREAS, I, David Mazzarese, a resident of Suwon-si, Gyeonggi-do, Republic of Korea, and a citizen of France, have invented certain new and useful improvements in "SDMA COMMUNICATION SYSTEM FOR FEEDING BACK CHANNEL STATE INFORMATION AND METHOD SUPPORTING THE SAME" disclosed in an application for United States Letters Patent (Application Serial No. __/____, filed on ______, said application having been executed concurrently herewith;

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.

PATENT REEL: 022356 FRAME: 0507

IN WITNE	SS WHEREOF, I have here 2009.	cunto set my hand and seal this _	16 ^{4h}	_ day of
		DAVID MAZZARESE		

-2-

Q 구경세요준연구 Lab.(통신연) 20090206141233

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