

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Eun Seok Ko</td> <td>03/02/2010</td> </tr> <tr> <td>Jong-Hyung Kwun</td> <td>03/02/2010</td> </tr> </tbody> </table>		Name	Execution Date	Eun Seok Ko	03/02/2010	Jong-Hyung Kwun	03/02/2010						
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CORRESPONDENCE DATA													
Fax Number: (972)628-3616 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 972-628-3600 Email: patents@munckcarter.com Correspondent Name: Docket Clerk Address Line 1: P.O. Drawer 800889 Address Line 4: Dallas, TEXAS 75380													
ATTORNEY DOCKET NUMBER:	SAMS07-11015												
NAME OF SUBMITTER:	William A. Munck												
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PATENT
 REEL: 024152 FRAME: 0300

ASSIGNMENT

WHEREAS, We, Eun Seok Ko, resident of Seongnam-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea and Jong-Hyung Kwun, resident of Yongsan-gu, Seoul, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful improvements in a "METHOD AND APPARATUS FOR BEAM-FORMING SIGNAL IN MULTI USER-MIMO WIRELESS COMMUNICATION SYSTEM" disclosed in an application for United States Letters Patent (Application No. 12/660,644 filed 03/02/2010), 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, we 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; We 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 we 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 our entire right, title and interest.

We 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 we 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.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us 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 ASSIGNEES and to aid said ASSIGNEES, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date: 3/2/2010

Eunseok Ko
Eun Seok Ko

Date: 3/2/2010

Jonghyung Kwun
Jong-Hyung Kwun