

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DONG-YUN JUNG	01/05/2015
SUNG-TAE CHOI	01/05/2015
DONG-WOO KANG	01/05/2015
JI-HOON KIM	01/05/2015
YI-JU ROH	01/05/2015
YUN-A SHIM	01/05/2015
DONG-HYUN LEE	01/05/2015
SEUNG-PYO HONG	01/05/2015
RECEIVING PARTY DATA	
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Street Address:	129, SAMSUNG-RO
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City:	GYEONGGI-DO
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14590761
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NAME OF SUBMITTER:	MICHAEL G. RODRIGUEZ

SIGNATURE:	/Michael G. Rodriguez/
DATE SIGNED:	01/06/2015
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DOCKET NO. SP14292-US (SAMS06-14292)
CLIENT REF.: MJ-201304-011-1-US0

PATENT

ASSIGNMENT

WHEREAS, We, Dong-Yun Jung, resident of Anyang-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Sung-Tae Choi, resident of Hwaseong-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Dong-Woo Kang, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Ji-Hoon Kim, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Yi-Ju Roh, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Yun-A Shim, resident of Hoengseong-gun, Gangwon-do, Republic of Korea, citizen of Republic of Korea, Dong-Hyun Lee, resident of Anyang-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, and Seung-Pyo Hong, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful improvements in a "METHOD AND APPARATUS FOR TRANSCIEIVING FOR BEAM FORMING IN WIRELESS COMMUNICATION SYSTEM" disclosed in an application for United States Letters Patent (Application No. _____, filed _____), 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 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our 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 of Munck Wilson Mandala, 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 ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date: January 5, 2015

Dong-Yun Jung
DONG-YUN JUNG

Date: January 5, 2015

Sung-Tae Choi
SUNG-TAE CHOI

Date: January 5, 2015

Dong-Woo Kang
DONG-WOO KANG

Date: January 5, 2015

Ji-Hoon Kim
JI-HOON KIM

Date: January 5, 2015

Yi-Ju Roh
YI-JU ROH

Date: January 5, 2015

Yun-A Shim
YUN-A SHIM

Date: January 5, 2015

Dong-Hyun Lee
DONG-HYUN LEE

Date: January 5, 2015

Seung-Pyo Hong
SEUNG-PYO HONG