

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JUNG-MIN MOON	09/27/2017
SEUNG-HOON PARK	09/27/2017
JUNG-SOO JUNG	09/27/2017
SUN-HEUI RYOO	09/27/2017
BYOUNG-HOON JUNG	09/27/2017
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15565399
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SIGNATURE:	/Jacob L. LaCombe/
DATE SIGNED:	10/09/2017
Total Attachments: 2	
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ASSIGNMENT

WHEREAS, WE, **Jung-Min MOON**, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, **Seung-Hoon PARK**, resident of Seoul, Republic of Korea, citizen of Republic of Korea, **Jung-Soo JUNG**, resident of Seongnam-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, **Sun-Heui RYOO**, resident of Yongin-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, **Byoung-Hoon JUNG**, resident of Seoul, Republic of Korea, citizen of Republic of Korea have invented certain new and useful improvements in "**METHOD FOR SUPPORTING HARQ IN COMMUNICATION SYSTEM USING UNLICENSED FREQUENCY BAND AND DEVICE HAVING APPLIED 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 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, 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**, their 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**, their 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

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ASSIGNEE, their successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to their 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, their successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date: September 27, 2017

Jungmin Moon

Jung-Min MOON

Date: September 27, 2017

Seung-Hoon Park

Seung-Hoon PARK

Date: September 27, 2017

Jung-Soo JUNG

Jung-Soo JUNG

Date: September 27, 2017

Sun-heui RYOO

Sun-Heui RYOO

Date: September 27, 2017

Byoung-hoon JUNG

Byoung-Hoon JUNG