

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT6227735

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAEHYUN LEE	07/30/2020
KWONJONG LEE	07/30/2020
HYOJIN LEE	07/30/2020
JUNGSUEK OH	07/29/2020
HOGYEOM KIM	07/29/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAMSUNG ELECTRONICS CO., LTD.
<b>Street Address:</b>	129, SAMSUNG-RO, YEONGTONG-GU,
<b>City:</b>	SUWON-SI, GYEONGGI-DO, 16677
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Name:</b>	SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION
<b>Street Address:</b>	1, GWANAK-RO, GWANAK-GU
<b>City:</b>	SEOUL
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	08826
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16944017
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	972-628-3600
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<b>Address Line 1:</b>	P.O. DRAWER 800889
<b>Address Line 4:</b>	DALLAS, TEXAS 75380
<b>ATTORNEY DOCKET NUMBER:</b>	SAMS11-55955
<b>NAME OF SUBMITTER:</b>	JACOB L. LACOMBE

<b>SIGNATURE:</b>	/Jacob L. LaCombe/
<b>DATE SIGNED:</b>	07/30/2020
<b>Total Attachments: 3</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

**ASSIGNMENT**

WHEREAS, We, Jaehyun LEE, resident of Suwon-si, Gyeonggi-do, Republic of Korea, Kwonjong LEE, resident of Suwon-si, Gyeonggi-do, Republic of Korea, Hyojin LEE, resident of Suwon-si, Gyeonggi-do, Republic of Korea, Jungsuek OH, resident of Gwanak-gu, Seoul, Republic of Korea, and Hogyom KIM, resident of Gwanak-gu, Seoul, Republic of Korea, have invented certain new and useful improvements in a "METHOD AND APPARATUS FOR TRANSMITTING OR RECEIVING SIGNALS IN WIRELESS COMMUNICATION SYSTEM" disclosed in an application for United States Letters Patent (Application 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 and Seoul National University R&DB Foundation, a Korean University Foundation, located at 1, Gwanak-ro, Gwanak-gu, Seoul, 08826, Republic of Korea (hereinafter referred to as "ASSIGNEES"), are 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;

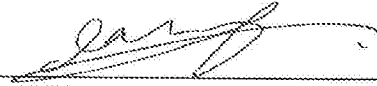
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEES, their successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention 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 ASSIGNEES of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEES, 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 ASSIGNEES, their successors, assigns and legal representatives.


We hereby further agree that we will communicate to said ASSIGNEES, or to their successors, assigns and legal representatives, any facts known to us respecting any improvements;

and, at the expense of said ASSIGNEES, 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, their successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

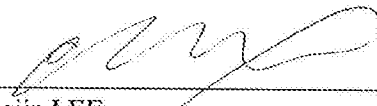
Date: 2020 - 07 - 30

  
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Jaehyun LEE

Date: Jul. 30, 2020

  
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Kwonjong LEE

Date: July 30th, 2020

  
\_\_\_\_\_  
Hyojin LEE

Date: \_\_\_\_\_

\_\_\_\_\_  
Jungsuek OH

Date: \_\_\_\_\_

\_\_\_\_\_  
Hogyoom KIM

and, at the expense of said ASSIGNEES, 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, their successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date: \_\_\_\_\_

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Jaehyun LEE


Date: \_\_\_\_\_

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Kwonjong LEE


Date: \_\_\_\_\_

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Hyojin LEE

Date: July 29 2020

  
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Jungsuek OH

Date: July 29 2020

  
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Hogeom KIM