

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5777050

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SEUNGBO RYU	09/17/2019
DONGMIN KIM	09/17/2019
NAMRYUL JEON	09/17/2019
DOYOUNG JUNG	09/17/2019
BALGEUM CHO	09/24/2019
<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
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	16677
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16606450
<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>	202-293-0804
<b>Email:</b>	usdocketing@jeffersonip.com
<b>Correspondent Name:</b>	JEFFERSON IP LAW, LLP
<b>Address Line 1:</b>	1130 CONNECTICUT AVE., NW, SUITE 420
<b>Address Line 4:</b>	WASHINGTON, D.C. 20036
<b>ATTORNEY DOCKET NUMBER:</b>	0203-2516
<b>NAME OF SUBMITTER:</b>	MAULIN M. PATEL
<b>SIGNATURE:</b>	/Maulin M. PATEL/
<b>DATE SIGNED:</b>	10/18/2019
<b>Total Attachments: 4</b>	
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RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

1) Seungbo RYU, 2) Dongmin KIM, 3) Namryul JEON, 4) Doyoung JUNG and 5) Balgeum CHOE

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) September 17, 2019 & September 24, 2019

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Samsung Electronics Co., Ltd.

Internal Address: \_\_\_\_\_

Street Address: 129, Samsung-ro, Yeongtong-gu

City: Suwon-si, Gyeonggi-do

State: \_\_\_\_\_

Country: Republic of Korea Zip: 16677

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)

16/606,450

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Jefferson IP Law, LLP

Internal Address: Maulin M. Patel

Street Address: 1130 Connecticut Ave., NW, Suite 420

City: Washington

State: District of Columbia Zip: 20036

Phone Number: 202-293-0804

Fax Number: 202-403-3587

Email Address: usdocketing@jeffersonip.com

**6. Total number of applications and patents involved:** One

- 7. Total fee (37 CFR 1.21(h) & 3.41)** \$ \_\_\_\_\_  
☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**

/Maulin M. PATEL/ Reg. #56,029

Signature

October 18, 2019

Date

Maulin M. Patel

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

## Assignment

**WHEREAS**, the following inventors, namely 1) **Seungbo RYU**, 2) **Dongmin KIM**, 3) **Namryul JEON**, 4) **Doyoung JUNG**, and 5) **Balgeum CHOE** (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

## METHOD AND APPARATUS FOR ESTABLISHING CONNECTION BETWEEN TERMINAL AND BASE STATION,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on October 18, 2019, and assigned Serial No. 16/606,450; and,

**WHEREAS**, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 16677 (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein;

**NOW, THEREFORE, BE IT KNOWN** that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and all other foreign countries, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any other foreign country application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

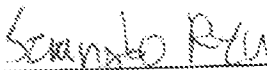
Assignors covenant and agree, without further compensation to said Assignors but at Assignee's expense:

- a. to execute:
- i. all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignee may deem necessary or expedient, and
  - ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;



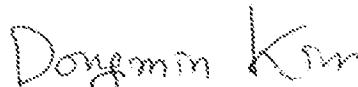
DOCKET NO.: 0203-2516  
CLIENT REF.: YPF201802-0025/US-PCT\_DMC  
SAMSUNG REF.: NG-201611-013-1-US0

Signature of Inventor:

  
Seungbo RYU

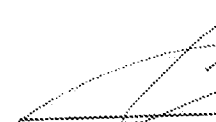
Sep. 17, 2019  
Date

Signature of Inventor:

  
Dongmin KIM

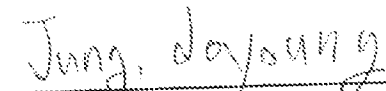
Sep. 17, 2019  
Date

Signature of Inventor:

  
Namryul JEON

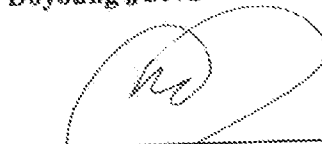
Sep. 17, 2019  
Date

Signature of Inventor:

  
Doyoung JUNG

Sep. 17, 2019  
Date

Signature of Inventor:

  
Balgeum CHOE

Sep. 27, 2019  
Date