# 505850975 01/07/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

NIEW ACCIONATE

EPAS ID: PAT5897912

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SEOUNGHO JEONG	12/11/2019
WONTAI KIM	12/11/2019
JINGOO SEO	12/11/2019
JAEYOUNG SEOL	12/11/2019

# **RECEIVING PARTY DATA**

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16736236

## **CORRESPONDENCE DATA**

Fax Number:

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.

**Phone:** 202-293-0804

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Address Line 1: 1130 CONNECTICUT AVE., NW, SUITE 420

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	0203-2589
NAME OF SUBMITTER:	ELIZABETH K. GEMMELL
SIGNATURE:	/Elizabeth K. GEMMELL/
DATE SIGNED:	01/07/2020

### **Total Attachments: 4**

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PATENT 505850975 REEL: 051438 FRAME: 0260

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PATENT REEL: 051438 FRAME: 0261

RECORDATION FORM COVER SHEET					
PATENTS ONLY					
To the Director of the U.S. Patent and Trademark Office: Pleas	se record the attached documents or the new address(es) below.				
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)				
1) Seoungho JEONG, 2) Wontai KIM, 3) Jingoo SEO and 4) Jaeyoung SEOL	Name: Samsung Electronics Co., Ltd.				
did 1, 535,55 g 1 = 1 =	Internal Address:				
Additional name(s) of conveying party(ies) attached? Yes 🗹 No					
3. Nature of conveyance/Execution Date(s):	Street Address: 129, Samsung-ro, Yeongtong-gu				
Execution Date(s) December 11, 2019					
✓ Assignment					
Security Agreement Change of Name	City: Suwon-si, Gyeonggi-do				
Joint Research Agreement	State:				
Government Interest Assignment	Country: Republic of Korea Zip: 16677				
Executive Order 9424, Confirmatory License	Country, Hopatolic of North				
Other	Additional name(s) & address(es) attached? Yes Vo				
Additional numbers att	ached? Yes VNo				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One				
Name: Jefferson IP Law, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$				
Internal Address: Elizabeth K. Gemmell	Authorized to be charged by credit card				
	Authorized to be charged to deposit account				
Street Address: 1130 Connecticut Ave., NW, Suite 420	Enclosed				
Office / (ddf 333. 1100 35) intodicate / (15) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	None required (government interest not affecting title)				
City: Washington	8. Payment Information				
State: DC Zip:20036	a. Credit Card Last 4 Numbers Expiration Date				
Phone Number: 202-293-0804					
Fax Number: 202-403-3587	b. Deposit Account Number				
Email Address: usdocketing@jeffersonip.com	Authorized User Name				
9. Signature: /Elizabeth K. GEMMELL/ Reg.	#60,437 January 7, 2020				
Signature	Date				
Elizabeth K. Gemmell Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:				

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

DOCKET NO.: 0203-2589

CLIENT REF.: YPF201911-0039/US\_DMC SAMSUNG REF.: GA-201809-012-1-US0

# <u>Assignment</u>

WHEREAS, the following inventors, namely 1) Seoungho JEONG, 2) Wontai KIM, 3) Jingoo SEO, and 4) Jaeyoung SEOL (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 FORECASTING CELL CAPACITY SATURATION IN WIRELESS COMMUNICATION SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on <u>January 7, 2020</u>, and assigned Serial No. <u>16/736,236</u>; 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 "Assignce"), 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 Letiers 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 Assignce's expense:

#### a. to execute:

- 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
- 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;

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PATENT REEL: 051438 FRAME: 0263 DOCKET NO.: 0203-2589

CLIENT REF.: YPF201911-0039/US\_DMC SAMSUNG REF.: GA-201809-012-1-US0

> b. to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;

> to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;

> d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and

e. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

Assignors each hereby represents, covenants and warrants that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon Assignors' heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with Customer No. 68103 the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

DOCKET NO.: 0203-2589

CLIENT REF.: YPF201911-0039/US\_DMC SAMSUNG REF.: GA-201809-012-1-US0

Signature of Inventor:	Garagh Feory	Dec 11, 29/
	Seoungho JEONG (/	Date
Signature of Inventor:	Kim Wa Tar	Rec/1, 2019
	Wontsi KIM	Date /
Signature of Inventor:	Jingoo SEO	b <sub>e</sub> 11, 249 Date
Signature of Inventor:	Cf to	Da 11. 2019

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PATENT REEL: 051438 FRAME: 0265