# 505838122 12/26/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5885056

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BONGJIN KIM	10/16/2019
CHEOLHEE LEE	10/17/2019
KILSIK HA	10/16/2019
JAEWON KIM	10/16/2019

#### **RECEIVING PARTY DATA**

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State/Country:	KOREA, REPUBLIC OF	
Postal Code:	16677	

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

Property Type	Number
Application Number:	16626787

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	0203-2530
NAME OF SUBMITTER:	MAENG-HO SHIN
SIGNATURE:	/Maeng-Ho SHIN/
DATE SIGNED:	12/26/2019

## **Total Attachments: 4**

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PATENT REEL: 051371 FRAME: 0014

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)	2. Name and address of receiving party(ies)				
1) Bongjin KIM, 2) Cheolhee LEE, 3) Kilsik HA, and 4) Jaewon KIM	Name: Samsung Electronics Co., Ltd.				
	Internal Address:				
A. Patent Application No.(s) 16/626,787	Street Address: 129, Samsung-ro, Yeongtong-gu  City: Suwon-si, Gyeonggi-do  State:  Country: Republic of KoreaZip:16677  Additional name(s) & address(es) attached?YesVoodocument is being filed together with a new application.  B. Patent No.(s)				
5. Name and address to whom correspondence	6. Total number of applications and patents				
concerning document should be mailed:	involved: One				
Name: Jefferson IP Law, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$				
Internal Address: Maeng-Ho Shin	Authorized to be charged by credit card				
Street Address: 1130 Connecticut Ave., NW, Suite 420	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)				
City: Washington	8. Payment Information				
State: District of Columbia Zip: 20036	a. Credit Card Last 4 Numbers Expiration Date				
Phone Number: 202-293-0804					
Fax Number: <u>202-403-3587</u>	b. Deposit Account Number  Authorized User Name				
Email Address: usdocketing@jeffersonip.com					
9. Signature: //Maeng-Ho SHIN/ Reg. #5 Signature  Maeng-Ho Shin	Date Total number of pages including cover				
Name of Person Signing	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.: 0203-2530

CLIENT REF.: YPF201712-0003/US-PCT\_DMC

SAMSUNG REF.: NG-201702-007-1-US0

# <u>Assignment</u>

WHEREAS, the following inventors, namely 1) Sangmin KIM, 2) Bongjin KIM, 3) Cheolhee LEE, 4) Kilsik HA, and 5) Jaewon KIM (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

## METHOD AND DEVICE FOR EFFICIENT HARQ OPERATION,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on <u>December 26, 2019</u>, and assigned Serial No. 16/626,787; 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 fike 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:

- 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;

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CLIENT REF.: YPF201712-0003/US-PCT DMC

SAMSUNG REF.: NG-201702-007-1-US0

 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;

- c. 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.

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SAMSUNG REF.: NG-201702-007-1-US0

Signature of Inventor:		
	Sangmin KIM	Date
Signature of Inventor:	Bryja Kim Bongjin KIM	
Signature of Inventor:	Cheolice LEE	
Signature of Inventor:	Kilsik HA	<u>Oct. /6,20/9</u> Date
Signature of Inventor:	Jae won KIM	Oct. 16, 2019 Date