# 505108721 09/24/2018

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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YOUNG-HAN NAM	01/13/2016
YOUNGWOO KWAK	01/13/2016
HOONDONG NOH	01/13/2016
EKO ONGGOSANUSI	01/13/2016

#### RECEIVING PARTY DATA

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## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15719056

## **CORRESPONDENCE DATA**

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SIGNATURE:	/Jacob L. LaCombe/
DATE SIGNED:	09/24/2018

**Total Attachments: 5** 

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PATENT REEL: 046953 FRAME: 0640

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> PATENT REEL: 046953 FRAME: 0641

# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention	CODEBOOK DESIGN AND STRUCTURE FOR ADVANCED WIRELESS COMMUNICATION SYSTEMS			
	COMMUNICATION SISIEMS			
As the undersigned inventor, I hereby declare that:				
This combined assignment is d	declaration and			
The above-iden	atified application was made or authorized to be made by me.			
I believe that I	am the original inventor or an original joint inventor of a claimed invention in the application.			
I have reviewed and understand the contents of the application including the claims, for which this combined declaration and assignment is being submitted.				
I am aware of the 1.56.	he duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR			
WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation, having a place of business at 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do, 16677, Korea (hereinafter referred to as "ASSIGNEE"), desires to acquire the entire right, title and interest in said invention and to any patent that may be granted thereon in the United States and foreign countries;				
NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, We, the below named inventors, hereby sell, assign and transfer to said ASSIGNEE, its successors and assigns, the entire right, title and interest in the above-identified application and the invention disclosed therein in all countries, including all divisional applications, continuation applications, and corresponding priority applications including those to which priority is claimed under the International Convention of Paris including under 35 U.S.C. 119, substitutions, and renewals thereof, and to all patents that may be granted thereon, and all reissues thereof.				
We hereby authorize and request the Patent Office Officials in the United States and all foreign countries to issue patents, when granted, to said ASSIGNEE, its successors and assigns. Further, We agree that said ASSIGNEE, its successors and assigns, may apply for patents for the invention in foreign countries without further authorization from us. Also, We agree to execute all papers and generally to do everything possible to aid said ASSIGNEE, its successors and assigns, in obtaining and enforcing patents for the invention in all countries.				
I hereby acknowledge that any willful false statement made in this combined declaration and assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.				
LEGAL NAME	E OF FIRST INVENTOR (e.g., full first name, middle initial, last name)			
Inventor: M	Inventor: Md. Saifur Rahman Date: 0//13/16			
Signature:	Mosaif au			

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LEGAL NAME OF SECOND INVENTOR (e.g., full first name, middle initial, la	st name)	
Inventor: Young-Han Nam	Date:	1/13/2016
Signature:		

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LEGAL NAME OF THIRD INVENTOR (e.g., full first name, mid	dle initial, last name)
Inventor:Youngwoo Kwak	Date: 01/13/20/6
Signature:	'

LEGAL NAME OF FOURTH INVENTOR (e.g., full first name, middle initial, last name)				
Inventor: Hoondong Noh	Date:	01/13/2016		
Signature:				

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LEGAL NAME OF FIFTH INVENTOR (e.g., full first name	, middle initial, last name)	
Inventor: <u>Eko Onggosanusi</u>	Date:	2016/01/13
Signature:	1	
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