

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5341953

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
AHMED IBRAHIM	01/17/2019
YOUNG-HAN NAM	01/09/2019
YEQING HU	01/09/2019
EUN YONG KIM	01/24/2019
JIANZHONG ZHANG	01/09/2019
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:	16256898
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	2018.05.003.SR0
NAME OF SUBMITTER:	JACOB L. LACOMBE
SIGNATURE:	/Jacob L. LaCombe/
DATE SIGNED:	01/24/2019
Total Attachments: 5	
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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET
(37 CFR 1.76) AND ASSIGNMENT**

Title of Invention	Precoding for Advanced Wireless Communication Systems
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As the undersigned inventor, I hereby declare that:

This combined declaration and ☒ the attached application, or
assignment is directed to: ☐ United States application or PCT International application number _____
filed on _____.

The above-identified 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 duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR
1.56.

WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation, having a place of business at 129, Samsung-ro, Yeongtong-gu
Siwon-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.

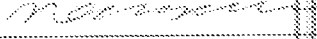
I hereby acknowledge that any willful false statement made in this combined declaration and assignment is punishable under 18
U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF FIRST INVENTOR (e.g., full first name, middle initial, last name)	
Inventor: <u>Ahmed Ibrahim</u>	Date: <u>01/17/2019</u>
Signature: <u>Ahmed Ibrahim</u>	

LEGAL NAME OF SECOND INVENTOR (e.g., full first name, middle initial, last name)

Inventor: Young-Han Nam

Date: 1/9/2019

Signature: 

2018.05.003.SR0
SAMS10-01361

LEGAL NAME OF THIRD INVENTOR (e.g., full first name, middle initial, last name)

Inventor: Yeqing Hu

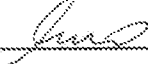
Date: Jan 19th / 2019

Signature: Yeqing Hu

LEGAL NAME OF FOURTH INVENTOR (e.g., full first name, middle initial, last name)

Inventor: Eun Yong Kim

Date: 24 Jan. 2019

Signature: 

LEGAL NAME OF FIFTH INVENTOR (e.g., full first name, middle initial, last name)

Inventor: Jianzhong Zhang

Date: 1/9/19

Signature: 