

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4811526

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YIQUN GE	02/05/2018
WUXIAN SHI	02/05/2018
RAN ZHANG	02/05/2018
NAN CHENG	02/05/2018
RECEIVING PARTY DATA	
Name:	HUAWEI TECHNOLOGIES CO., LTD.
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Internal Address:	BANTIAN, LONGGANG
City:	SHENZHEN, GUANGDONG
State/Country:	CHINA
Postal Code:	518129
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15889544
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ATTORNEY DOCKET NUMBER:	55088-273
NAME OF SUBMITTER:	AMY YABLONSKI
SIGNATURE:	/Amy Yablonski/
DATE SIGNED:	02/06/2018
Total Attachments: 3	
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ASSIGNMENT

WHEREAS, I/We, the undersigned inventor(s) (or one of the undersigned joint inventors), of residence as listed below, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed in a way that effectively on the date that the application is filed or a priority date or priority dates that the application claims; and

WHEREAS, Huawei Technologies Co., Ltd. ("Assignee"), a corporation organized and existing under the laws of China, having a principal place of business at Huawei Administration Building, Bantian, Longgang, Shenzhen, Guangdong, 518129 China, is desirous of acquiring my/our entire right, title and interest in the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we will assign, and hereby assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive right, title and interest in and to the invention in the United States and every other country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisional, reissues, reexaminations, National Phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every other country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and I/we do hereby authorize and request the Commissioner for Patents to issue U.S. patents for said invention, or patent resulting therefrom, insofar as my/our interest is concerned, to the Assignee agreeably with the terms of this assignment document.

I/we also hereby agree to sell and to assign, and sell and assign to Assignee, its successors and assigns, my/our international rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of any International Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I/we hereby further agree that I/we will communicate to Assignee, or its successors, assigns, and legal representative, any facts known to me/us respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all documents required for divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid such Assignee, its successors,

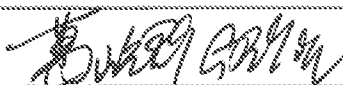
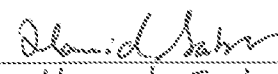
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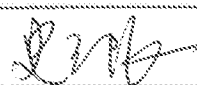
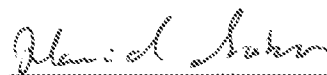
assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I/we hereby authorize Assignee to modify this Assignment at a later date for the purpose of adding information to better identify the invention, such as the application serial number, and filing date of a patent application filed thereon.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

Title of Invention	APPARATUS AND METHODS OF SPECIFYING ORDERED SEQUENCES OF CODING SUB-CHANNELS	
	Appl. No.	Filing Date:

Signature of Inventor:		
Inventor Name:	YIQUN GE	Date Feb. 5, 2018
Residence (City/State):	Kanata Ontario	
Signature of Witness:		
Witness Name:	Hamid Saber	Date Feb. 5, 2018
Residence (City/State):	Ottawa/ON	

Signature of Inventor:		
Inventor Name:	WUXIAN SHI	Date Feb. 5, 2018
Residence (City/State):	Kanata, Ontario	
Signature of Witness:		
Witness Name:	Hamid Saber	Date Feb. 5, 2018
Residence (City/State):	Ottawa/ON	

ASSIGNMENT

Signature of Inventor:	<u>Ran Zhang</u>	
Inventor Name:	<u>RAN ZHANG</u>	Date <u>Feb 05, 2018</u>
Residence (City/State):	<u>Kanata, Ontario</u>	
Signature of Witness:	<u>Hamid Saber</u>	
Witness Name:	<u>Hamid Saber</u>	Date <u>Feb. 5, 2018</u>
Residence (City/State):	<u>Ottawa/ON</u>	

Signature of Inventor:	<u>Nan Cheng</u>	
Inventor Name:	<u>NAN CHENG</u>	Date <u>Feb, 05, 2018</u>
Residence (City/State):	<u>Kanata, Ontario</u>	
Signature of Witness:	<u>Hamid Saber</u>	<u>Feb, 05, 2018</u>
Witness Name:	<u>Hamid Saber</u>	Date
Residence (City/State):	<u>Ottawa/ON</u>	