503385835 07/09/2015 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3432459

		N	EW ASSIGNMENT			
NATURE OF CONVEYANCE:		A	ASSIGNMENT			
CONVEYING PARTY	DATA	•				
		Na	ame			Execution Date
JEEBAK MITRA						07/07/2015
ZHUHONG ZHANG						07/09/2015
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Name:	HUAWI	EI TECH	INOLOGIES CO., LTD.			
Street Address:	HUAWI	EI ADM	INISTRATION BUILDING, E	BANT	IAN	
Internal Address:	LONGO	GANG D	ISTRICT, GUANGDONG			
City:	SHENZ	ZHEN				
State/Country:	CHINA					
Postal Code:	518129)				
Application Number:		147956	36			
PROPERTY NUMBER Property Typ	r		Number			
		147930				
CORRESPONDENCE	DATA					
CONNESPONDENCE						
Fax Number:		(972)73	2-9218			
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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 on the date set forth below; 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, assigns and nominees to obtain and enforce proper patent protection for said

Huawei Technologies Co., Ltd. Patent Reference No. HW 91032415US01

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PATENT REEL: 036049 FRAME: 0531

ASSIGNMENT

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	Method and Apparatus for	Low-Complexity Quasi-Reduced
	State Soft-	Output Equalizer
	Appl. No.	Filing Date:

Signature of Inventor:	F.M.S.	
Inventor Name:	Jeebak Mitra	Date July D7 /2015
Residence (City/State):	Ottawa, ON	<u> </u>
Signature of Witness:	Between	
Witness Name:	BHU MICKALE	Date July 7 2015
Residence (City/State):	Almonte, Ont.	
Signature of Inventor:		
Inventor Name:	Zhuhong Zhang	Date
Residence (City/State):	Ottawa, ON	
Signature of Witness:		
Witness Name:		Date
Pasidanas (City/State)		

Huawei Technologies Co., Ltd. Patent Reference No. HW 91032415US01 Page 2 of 2

PATENT REEL: 036049 FRAME: 0532

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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	Method and Apparatus for	Low-Complexity Quasi-Reduced
	State Soft-	Output Equalizer
	Appl. No.	Filing Date:

Signature of Inventor:			
Inventor Name:	Jeebak Mitra	Date	******
Residence (City/State):	Ottawa, ON		**************************************
Signature of Witness:			
Witness Name:		Date	(,
Residence (City/State):			

Signature of Inventor:	V-I-
Inventor Name:	Zhuhong Zhang Date July 20
Residence (City/State):	Ottawa, ON
Signature of Witness:	- Ite-
Witness Name:	Jeebyk Mitra Date July Joans
Residence (City/State):	

Huawei Technologies Co., Ltd. Patent Reference No. HW 91032415US01

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RECORDED: 07/09/2015

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