505956424 03/09/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAI MOHAN KILAMBI	03/01/2019
DAVID NEAL WESSEL	03/18/2019
LAN HU	03/01/2019

RECEIVING PARTY DATA

Name:	HUAWEI TECHNOLOGIES CO., LTD.
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16290035

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ATTORNEY DOCKET NUMBER: 43564-028 NAME OF SUBMITTER: ARNALDO ARANDA SIGNATURE: /Arnaldo Aranda/ **DATE SIGNED:** 03/09/2020

Total Attachments: 3

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> **PATENT REEL: 052050 FRAME: 0498** 505956424

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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ASSIGNMENT

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		
UNDER-SAMPLING BASED RECEIVER	Appl. No.	Filing Date:
ARCHITECTURE FOR WIRELESS	16/290,035	March 1, 2019
COMMUNICATIONS SYSTEMS	10/290,033	

Signature of Inventor:	So Who Waterthal.	
Inventor Name:	Sai Mohan KILAMBI	Date Morch 2019
Residence (City/State):	Nepean, Canada	
Signature of Witness:		
Witness Name:	Andrei Bulian	Date 1927 6 01, 2016
Residence (City/State):	ottawa o	

Signature of Inventor:
Inventor Name:

Residence (City/State):

Witness Name:

Residence (City/State):

Witness Name:

Residence (City/State):

ANALY Date Man (18 20)

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ASSIGNMENT

Signature of Inventor:		
Inventor Name:	Lan HU Date Massifica	30/9
Residence (City/State):	Ottawa, Canada	
	Service Servic	
Signature of Witness:	made Henre	
Witness Name:	Marek Klemes Date 1 March 201	9
Residence (City/State):	Kanata/ontario	

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