506446575 01/13/2021

PATENT ASSIGNMENT COVER SHEET

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 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALI AHMED ALI MASSOUD	09/29/2020
ZHIPING JIANG	09/29/2020
HONGBIAO GAO	09/30/2020

RECEIVING PARTY DATA

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City:	SHENZHEN, GUANGDONG
State/Country:	CHINA
Postal Code:	518129

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17037844

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 43564-057

NAME OF SUBMITTER: ARNALDO ARANDA

SIGNATURE: /Arnaldo Aranda/

DATE SIGNED: 01/13/2021

Total Attachments: 4

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PATENT 506446575 REEL: 054901 FRAME: 0410

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PATENT REEL: 054901 FRAME: 0411

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,

Huawei Technologies Co., Ltd. Patent Reference No. 86296939US02 15630067.1 Page 1 of 3

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	METHOD AND APPARATUS FOR OBJECT DETECTION SYSTEM	
	Appl. No. PCT/CN2019/095786	Filing Date: July 12, 2019
	Appl. No. 17/037,844	Filing Date: September 30, 2020

Signature of Inventor:	Ali Massoud		
Inventor Name:	Ali Ahmed Ali MASSOUD	Date	Sept, 29th,2020
Residence (City/State):	Kanata, Canada		•
Signature of Witness:	Ashgan Elka	19	
Witness Name:	Ashgan Elkady	Date	Sept, 29th,2020
Residence (City/State):	580 Remnor Ave, Kanata, On,	Canada	•

Signature of Inventor:			
Inventor Name:	Zhiping JIANG	Date	
Residence (City/State):	Kanata, Canada		
Signature of Witness:			
Witness Name:		Date	
Residence (City/State):			

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

Title of Invention		S FOR OBJECT DETECTION TEM
	Appl. No. PCI/CN2019/095786	Filing Date: July 12, 2019
	Appl. No.	Filing Date:

Signature of Inventor: Inventor Name:	Ali Ahmed Ali MASSOUD	Date	alatakasatain si nininin ataunta
Residence (City/State):	Kanatu, Canada		an a
Signature of Witness:			
Witness Name:		Date.	
		representative and the contractive and the	and the second of the second o

Signature of Inventor:	The state of the s		
Inventor Name:	Zhiping HANG	Date	9/29/2020
Residence (City/State):	Kanata, Canada		
Signature of Witness: Witness Name: Residence (City/State):	Haijnan Zeng Kanata ou Canada	Date	9/29/2020

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Signature of Inventor:	Hongbiae Gao		
Inventor Name:	Hongbiao GAO	Date 9/30/202	0
Residence (City/State):	Shenzhen, China		**********
Signature of Witness:	Jiahaa Wu		
Witness Name:	Tinhao Wu	Date 9/30/2020	7
Residence (City/State):	Sheathen China		

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