506096304 06/08/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LIQING ZHANG	06/03/2016
KELVIN KAR KIN AU	06/02/2016
JIANGLEI MA	06/03/2016
WEN TONG	10/19/2016
TOUFIQUL ISLAM	06/03/2016

RECEIVING PARTY DATA

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State/Country:	CHINA
Postal Code:	518129

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16895777

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DATE SIGNED:	06/08/2020
SIGNATURE:	/David J. Greer/
NAME OF SUBMITTER:	DAVID GREER
ATTORNEY DOCKET NUMBER:	50874-3480

Total Attachments: 3

PATENT REEL: 052868 FRAME: 0844

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source=Executed_Assignment_from_Inventors_to_Huawei_Technolgoies_Co___Ltd_#page3.tif

PATENT REEL: 052868 FRAME: 0845

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,

Huawei Technologies Co., Ltd. Patent Reference No. 84561190US04 Page 1 of 3

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.

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

	Appl. No.		Wiling Plate.	
	15/169,553	Filing Date: May 31, 2016		
	19/10/2009			
Signature of Inventor:		agaan ay ah	in the second	
Inventor Name:	Lixing Zhang	Date	June 03. 2016	
Residence (City/State):	Ottawa/Ontario			
Signature of Witness:	\$ 25h			
Witness Name:	Yu (.ao	Date	JUNE 3, 20/6	
Residence (City/State):	Ottawa, Ontario			
***************************************	2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	*****		
Signature of Inventor:	Kelis-			
Inventor Name:	Kelvin Kar Kin Au	Date	Jun 2, 2016	
Residence (City/State):	Ottawa/Ontario		5. V	
Signature of Witness:	構界の方人			
Witness Name:	Yu Can	Date	Jun 2, 2016	
Residence (City/State):	Ottowa, Ontario			
Signature of Inventor:	Yinda Ma .			
Inventor Name:	Jihnglei Ma	Date	Juno 3, 20/6	
Residence (City/State):	Ottawa/Ontario	ententente	and the second s	
Signature of Witness:	告望 Cao Tu			
Witness Name:	Y., ** Č#0	Date	TUAD 3. 2016	

Huawei Technologies Co., Ltd. Patent Reference No. 84561190US04

Residence (City/State):

Title of Invention

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ASSIGNMENT

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Inventor Name:	Wen Tong	Date	Oct. 19,201
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Residence (City/State):	OHawa, ON,		

Signature of Inventor:	- Via		
Inventor Name:	Toufiqui Islam	Date	June 3,2016
	 - glyddigaedaddigaethau addadaa ar taa can can can can ar taga an ar galgaryn ar can ar ar	23BC	1 more of one in
Residence (City/State):	Ottawa/Ontario	*******	
Signature of Witness:	BE COTA	Date	Tues 3 3011

Huawei Technologies Co., Ltd. Patent Reference No. 84561190US04

Residence (City/State):

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PATENT REEL: 052868 FRAME: 0848