01/31/2019 505306998

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 **EPAS ID: PAT5353778**

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIEN VIET NGUYEN	01/03/2019
KAPIL GULATI	01/03/2019
SUDHIR KUMAR BAGHEL	01/02/2019
SHAILESH PATIL	01/08/2019
LIBIN JIANG	01/08/2019
ZHIBIN WU	01/18/2019

RECEIVING PARTY DATA

Name:	QUALCOMM INCORPORATED
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121-1714

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16156874

CORRESPONDENCE DATA

Fax Number: (202)857-6395

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (202) 857-6000

Email: patentdocket@arentfox.com

Correspondent Name: ARENT FOX LLP Address Line 1: 1717 K STREET, NW

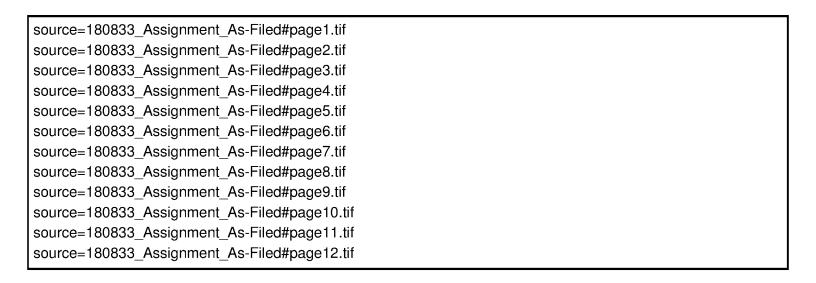
Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	030284.16618/180833
NAME OF SUBMITTER:	JASJIT S. VIDWAN
SIGNATURE:	/Jasjit S. Vidwan/
DATE SIGNED:	01/31/2019

Total Attachments: 12

PATENT REEL: 048210 FRAME: 0089

505306998



WHEREAS, WE.

- 1. Tien Viet NGUYEN, a citizen of Vietnam, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Bedminster, NJ.
- 2. Kapil GULATI, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Dover, DE.
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- 4. Shailesh PATIL, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of San Diego, CA.
- 5. Libin JIANG, a citizen of the People's Republic of China, having a mailing address located at 2121 6th Ave., Apt. N1011, Seattle, WA 98121, and a resident of Seattle, WA.
- 6. Zhibin WU, a citizen of the People's Republic of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Bedminster, NJ,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to SYNCHRONIZATION FOR V2X CARRIER AGGREGRATION (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, Qualcomm Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS, including but not limited

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AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at <u>Sei Agendany</u> , on LOCATION	1.8-2019	
LOCATION	DATE	Tien Viet NGUYEN
NI Done ar <u>Bridgeware</u> r, on	1-3-2019	Life Clade
LOCATION	DATE	Kapil GULATI
Done ar <u>Reid spaces</u> , on LOCATION	1-2-2019	
LOCATION	DATE	Sudhir Kumar BAGHEL
Done at , on		
Done at, on LOCATION	DATE	Shailesh PATIL
Done at, on		
LOCATION	DATE	Libin JIANG
Done at , on		organization (1)
LOCATION	DATE	Zhibin WU

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have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to SYNCHRONIZATION FOR V2X CARRIER AGGREGRATION (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, Qualcomm Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS, including but not limited

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Done at	, on		
	LOCATION	DATE	Tien Viet NGUYEN
Done at _	, on		
	LOCATION	DATE	Kapil GULATI
Done at_	, on		
	LOCATION	DATE	Sudhir Kumar BAGHEL
Done at	SAN DIEGO, on	1/1/19	<lup< td=""></lup<>
in.	LOCATION	DATE	Shailesh PATIL
Done at	, on	334	
er e	LOCATION	DATE	Libin JIANG
Done at _	, on		
	LOCATION	DATE	Zhibin WU

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	LOCATION	DATE	Kapil GULATI
Done at _		on	
	LOCATION	DATE	Sudhir Kumar BAGHEL
Done at		vn	
	LOCATION	DATE	Shailesh PATIL
Done at	eat(L,WA, LOCATION	on 1/3/2019	12-7 H
in in the second	LOCATION	DATE	Libin JIANG
Done at		ŎĦ	
n of the section of the consequence	LOCATION	DATE	Zhibin WU

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	LOCATION	DATE	Libin JIANG
Done ab	i <i>nta, Clarp, CA</i> , on	01/18/19	- Fun W.
7.82	LOCATION	7DATE	Zhibin WU

PATENT REEL: 048210 FRAME: 0102

RECORDED: 01/31/2019