506792035 07/29/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6838854

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAOJIE WANG	06/29/2021
XIAOXIA ZHANG	06/28/2021
JING SUN	06/30/2021
JUNYI LI	07/04/2021
PIYUSH GUPTA	07/02/2021
SONY AKKARAKARAN	07/12/2021
PETER GAAL	07/01/2021
JUNG HO RYU	07/01/2021
TAO LUO	07/13/2021

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:	17304821

CORRESPONDENCE DATA

Fax Number:

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: 5714320800

Email:docket@harrityllp.comCorrespondent Name:HARRITY & HARRITY, LLP

Address Line 1: 11350 RANDOM HILLS RD

Address Line 2: SUITE 600

Address Line 4: FAIRFAX, VIRGINIA 22030

ATTORNEY DOCKET NUMBER: 0097-2869/2104258

NAME OF SUBMITTER: NATALIE PARCELL

PATENT

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/Natalie Parcell/
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ASSIGNMENT

WHEREAS, WE,

- Xiaojie WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US,
- 2. Xiaoxia ZHANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US.
- 3. Jing SUN, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US,
- 4. Junyi LI, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US.
- 5. Piyush GUPTA, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US.
- 6. Sony AKKARAKARAN, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US,
- 7. Peter GAAL, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121. US.
- 8. Jung Ho RYU, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US,
- 9. Tao LUO, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US.

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 TRANSMITTING SIDELINK REFERENCE SIGNALS FOR JOINT CHANNEL ESTIMATION AND AUTOMATIC GAIN CONTROL (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 in the United States, including but not limited to U.S. Application No(s). 17/304,821 filed June 25, 2021, Qualcomm Reference Number 2104258, and all provisional applications relating thereto, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

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

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	City, State, Country		Date	Peter GAAL
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