PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 Assignment ID: PATI50174

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT		
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Conveying Party Data previously recorded on Reel 56243 Frame 356. Assignor(s) hereby confirms the Assignment.		

CONVEYING PARTY DATA

Name	Execution Date
Le Liu	04/06/2021
Kazuki Takeda	04/07/2021
Alberto Rico Alvarino	04/07/2021
Wanshi Chen	04/06/2021

RECEIVING PARTY DATA

Company 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:	17220749

CORRESPONDENCE DATA

Fax Number: 3034732720

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: (130)347-32700

Email: jdlafleur@hollandhart.com

Correspondent Name: J. Scott Karren
Address Line 1: P.O. Box 11583

Address Line 4: Salt Lake City, UTAH 84147

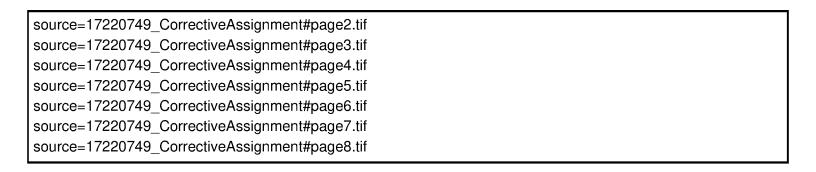
ATTORNEY DOCKET NUMBER:	PX0148 (111334.0149)
NAME OF SUBMITTER:	Jamie LaFleur
SIGNATURE:	Jamie LaFleur
DATE SIGNED:	02/26/2024

Total Attachments: 8

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PATENT REEL: 066677 FRAME: 0261

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5/14/2021 Assignment

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LE LIU	04/06/2021
KAZUKI TAKEDA	04/07/2021
ALBERTO RICO ALVARINO	04/07/2021
WANSHI CERN CHEN	04/06/2021

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:	17220749	

CORRESPONDENCE DATA

Fax Number: (303)473-2720 **Phone:** 3034732700

Email: skfredrickson@hollandhart.com

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.

Correspondent Name:MICHAEL DRAPKINAddress Line 1:P.O. BOX 11583

Address Line 4: SALT LAKE CITY, UTAH 84147

ATTORNEY DOCKET NUMBER:	PX0148 (111334.0149)
NAME OF SUBMITTER:	MICHAEL L. DRAPKIN
Signature:	/Michael L. Drapkin/
Date:	05/14/2021

Total Attachments: 6

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RECEIPT INFORMATION

EPAS ID: PAT6710251 **Receipt Date:** 05/14/2021

ASSIGNMENT

WHEREAS, WE,

- 1. Le LIU, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
- 2. Kazuki TAKEDA, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 3. Alberto RICO ALVARINO, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 4. Wanshi CHEN, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.

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 **ACTIVATION AND RELEASE FOR GROUP-COMMON DOWNLINK CHANNELS WITH REPETITIONS** (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). 17/220,749 filed April 01, 2021, Qualcomm Reference Number 2103122, (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 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 all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

PATENT

Qualcomm Reference Number: 2103122

Page 3 of 3

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

Done at Santa Clara, CA, on 4	L/6/2021 Date	Le LIU
Done at, on	Date	Kazuki TAKEDA
Done at, on	Date	Alberto RICO ALVARINO
Done at, on	Date	Wanshi CHEN

Qualcomm Reference Number: 2103122

Page 3 of 3

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

Done at	, on		
	City, State, Country	Date	Le LIU
Done at	Tokyo Zapan, on A	4 pr. 7. 20 21 Date	Kayl. M.M. Kazuki TAKEDA
Done at	City, State, Country	Date	Alberto RICO ALVARINO
Done at	on, on	Date	Wanshi CHEN

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

Done at	, on		
	City, State, Country	Date	Le LIU
Done at	, on		
	City, State, Country	Date	Kazuki TAKEDA
Done at	Dily Aus on _	41H 21	
	City, State, Country	Date '	Alberto RICO ALVARINO
Done at _	, on	Date	Wanshi CHEN

PATENT

Qualcomm Reference Number: 2103122

Page 3 of 3

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

Done at, on	Date	Le LIU
Done at, on	Date	Kazuki TAKEDA
Done at, on	Date	Alberto RICO ALVARINO
Done at City, State, Country, on 4	6/201 Date	Wanshi CHEN

PATENT REEL: 066677 FRAME: 0270

RECORDED: 02/26/2024