

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7921868

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JUNG HO RYU	09/09/2021
SONY AKKARAKARAN	08/27/2021
TAO LUO	08/27/2021
JUNYI LI	08/27/2021
TIANYANG BAI	09/07/2021
XIAOJIE WANG	08/30/2021
XIAOXIA ZHANG	09/05/2021
JING SUN	08/27/2021
PETER GAAL	08/27/2021
JUAN MONTOJO	08/29/2021
PIYUSH GUPTA	09/10/2021
WOOSEOK NAM	08/27/2021
MAHMOUD TAHERZADEH BOROUJENI	09/25/2021
HUA WANG	08/29/2021
LIK HANG SILAS FONG	09/01/2021
YAN ZHOU	08/29/2021
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:	18306977
CORRESPONDENCE DATA	
Fax Number:	(619)235-0398
<i>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.</i>	

Phone: 619-238-1900
Email: Docketing@procopio.com, Patrick.Lemus@procopio.com
Correspondent Name: PROCOPIO CORY HARGREAVES & SAVITCH LLP
Address Line 1: 525 B STREET, SUITE 2200
Address Line 4: SAN DIEGO, CALIFORNIA 92101

ATTORNEY DOCKET NUMBER:	129025-0914DV01/2104526D1
--------------------------------	---------------------------

NAME OF SUBMITTER:	PATRICK LEMUS
---------------------------	---------------

SIGNATURE:	/Patrick Lemus/
-------------------	-----------------

DATE SIGNED:	04/26/2023
---------------------	------------

Total Attachments: 19

source=2104526D1 Assignment from Parent#page1.tif
source=2104526D1 Assignment from Parent#page2.tif
source=2104526D1 Assignment from Parent#page3.tif
source=2104526D1 Assignment from Parent#page4.tif
source=2104526D1 Assignment from Parent#page5.tif
source=2104526D1 Assignment from Parent#page6.tif
source=2104526D1 Assignment from Parent#page7.tif
source=2104526D1 Assignment from Parent#page8.tif
source=2104526D1 Assignment from Parent#page9.tif
source=2104526D1 Assignment from Parent#page10.tif
source=2104526D1 Assignment from Parent#page11.tif
source=2104526D1 Assignment from Parent#page12.tif
source=2104526D1 Assignment from Parent#page13.tif
source=2104526D1 Assignment from Parent#page14.tif
source=2104526D1 Assignment from Parent#page15.tif
source=2104526D1 Assignment from Parent#page16.tif
source=2104526D1 Assignment from Parent#page17.tif
source=2104526D1 Assignment from Parent#page18.tif
source=2104526D1 Assignment from Parent#page19.tif

v1

ASSIGNMENT

WHEREAS, WE,

1. **Jung Ho RYU**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
2. **Sony AKKARAKARAN**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
3. **Tao LUO**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
4. **Junyi LI**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
5. **Tianyang BAI**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
6. **Xiaojie WANG**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
7. **Xiaoxia ZHANG**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
8. **Jing SUN**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
9. **Peter GAAL**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
10. **Juan MONTOJO**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
11. **Piyush GUPTA**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
12. **Wooseok NAM**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
13. **Mahmoud TAHERZADEH BOROUJENI**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
14. **Hua WANG**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
15. **Lik Hang Silas FONG**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,
16. **Yan ZHOU**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**,

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 **TECHNIQUES TO FACILITATE PHASE JUMP ESTIMATION FOR SIDELINK DMRS BUNDLING** (collectively the “INVENTIONS”) for which WE have executed and/or may execute one or more patent applications therefor; and

v1

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). 17/404,828 filed August 17, 2021, Qualcomm Reference Number 2104526**, 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 the United States or 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;

v1

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 me 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;

Document ID: 1630079768386 v1

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

Done
at

Fl. Lee, NJ, USA

on

9/19/21



City, State, Country


Date

Jung Ho RYU

PATENT

REEL: 063448 FRAME: 0298

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

Done at	<u>Poway, CA, USA</u>	on	<u>8/27/2021</u>	<u></u>
	City, State, Country		Date	Sony AKKARAKARAN

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

Done
at

San Diego, CA
City, State, Country

on

08/27/2021
Date

Tao LUO

Document ID: 1630079768389 v1

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

Done
at

Bridgewater, NJ, USA

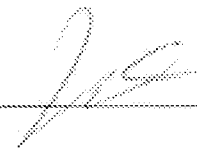
on

8/27/20

City, State, Country

Date

Junyi Li



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

Done
at


Somerville, NJ, USA
City, State, Country

on

09/07/2024
Date

Tianyang Bai
Tianyang Bai

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

Done Hillsborough, NJ, US on 08/30/2021 
at City, State, Country Date Xianjie WANG

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

Done
at

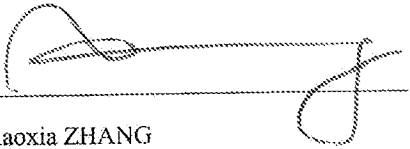
San Diego, CA, U.S.

City, State, Country

on

09/05/2021

Date



Xiaoxia ZHANG

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

Done
at

San Diego, CA, USA

on

8/27/21

City, State, Country

Date

[Signature]

Jing SUN

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

Done
at

San Diego, CA, U.S.A.

City, State, Country

on

08/27/2021

Date



Peter GAAL

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

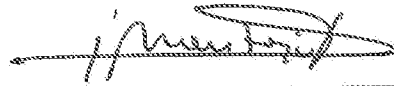
Done
at

San Diego, CA, USA

on

8/29/21

Date



Juan MONTOJO

City, State, Country

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

Done
at

Bridgewater, NJ

City, State, Country

on

Sep 19, '21

Date

Piyush Gupta

Piyush GUPTA

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

Done
at

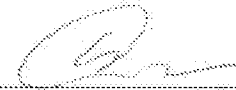
San Diego, CA, USA

City, State, Country

on


8/22/2021

Date

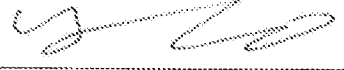


Wooseok NAM

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


Done at	<u>San Diego, CA, USA</u>	on	<u>Sep 25, 2021</u>	
	City, State, Country		Date	Mahmoud TAHERZADEH BOROUJENI

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

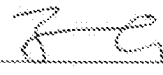
Done at Dublin, OH, USA on 08/29/2021 
City, State, Country Date Hua WANG

Document ID: 1630079768400 v1

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

Done at Bridgewater, NJ, USA on 9/1/2021 
City, State, Country Date Lik Hang Silas FONG

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

Done at San Diego, CA, US on 08/28/2021 
City, State, Country Date Yan ZHOU