506602812 04/09/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BHARAT SHRESTHA	02/23/2021
XIAO FENG WANG	03/04/2021
UMESH PHUYAL	02/23/2021
ALBERTO RICO ALVARINO	03/23/2021
LIANGPING MA	03/01/2021

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:	17178083	

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: 303-473-2700

Email: jdlafleur@hollandhart.com

Correspondent Name: HOLLAND & HART LLP/QUALCOMM

Address Line 1: P.O. BOX 11583

Address Line 4: SALT LAKE CITY, UTAH 84147

ATTORNEY DOCKET NUMBER: PS095.01 (107922.1033)		
NAME OF SUBMITTER:	MICHAEL L. DRAPKIN	
SIGNATURE:	/Michael L. Drapkin/	
DATE SIGNED:	04/09/2021	

Total Attachments: 7

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PATENT REEL: 055881 FRAME: 0823

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ASSIGNMENT

WHEREAS, WE,

- 1. Bharat SHRESTHA, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 2. Xiao Feng WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 3. Umesh PHUYAL, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 4. Alberto RICO ALVARINO, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 5. Liangping MA, 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 ACKNOWLEDGMENT FEEDBACK TECHNIQUES IN WIRELESS COMMUNICATIONS WITH LARGE PROPAGATION DELAYS (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). 17/178,083 filed February 17, 2021, Qualcomm Reference

Number 202453, together with U.S Provisional Application No(s). 62/980,098, filed February 21, 2020, Qualcomm Reference Number 202453P1, (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;

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

Done at-	Sim Diego (A, USA) on City, State, Country	02/23/2021	count.
	City, State, Country	Date	Bharat SHRESTHA
Done at	, on		
	City, State, Country	Date	Xiao Feng WANG
Σ Χ			
conc ai	City, State, Country	Date	Umesh PHUYAL
Dana at	200		
canc a	City, State, Country	Date	Alberto RICO ALVARINO
Nama né			
Done at	City, State, Country	Date	Liangping MA

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	Bharat SHRESTHA
Done at	San Diego (A. USA) on City, State, Country	03/04/2021	V~~
	City, State, Country	Date	Xiao Feng WANG
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Done at	City, State, Country	Date	Alberto RICO ALVARINO
Done at	, on		
	City, State, Country	Date	Liangping MA

PATENT Qualcomm Reference Number: 202463 Page 3 of 3

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

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	g 603 City, State, Country	Date	Bharat SEIRESTHA
Done at	City, State, Country	Date	Xiao Feng WANG
			UMosh PHOYAL
Done at	City, State, Country	Date	Aibene RICO ALVARINO
Done at	Cay, Stare, Country	Date	Liangping MA

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	Bharat SHRESTHA
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	City, State, Country	Date	Xiao Feng WANG
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	City, State, Country	Date	Umesh PHUYAL
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₩	City, State, Country	Date /	Alberto/RICO ALVARINO
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uran 2 sasar ilin 1911 e 190	City, State, Country	Date	Liangping MA

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Done m	Dec	Alberto RICO AL VARINO
Dane of Saw Deer O. CA on 193 City State Country	2/01/2/02/ Date:	Langping MA

PATENT REEL: 055881 FRAME: 0831

RECORDED: 04/09/2021