# 507019798 12/09/2021

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
YI HUANG	09/21/2021
HWAN JOON KWON	12/09/2021
PETER GAAL	09/28/2021
AHMED ELSHAFIE	09/23/2021
KRISHNA KIRAN MUKKAVILLI	09/21/2021

### **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:	17471071

## **CORRESPONDENCE DATA**

**Fax Number:** (619)235-0398

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.

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Email: Docketing@procopio.com, Patrick.Lemus@procopio.com
Correspondent Name: PROCOPIO CORY HARGREAVES & SAVITCH LLP

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ATTORNEY DOCKET NUMBER:	129025-0316UT01/208478	
NAME OF SUBMITTER:	PATRICK LEMUS	
SIGNATURE:	/Patrick Lemus/	
DATE SIGNED:	12/09/2021	

**Total Attachments: 7** 

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PATENT REEL: 058354 FRAME: 0028

507019798

#### ASSIGNMENT

### WHEREAS, WE,

- 1. Yi HUANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S. A.,
- 2. Hwan Joon KWON, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.,
- 3. Peter GAAL, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U. S.A.,
- 4. Ahmed ELSHAFIE, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.,
- 5. Krishna Kiran MUKKAVILLI, 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 **NACK BASED FEEDBACK FOR SEMI- PERSISTENT SCHEDULING TRANSMISSIONS** (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)**. 17/471,071 filed September 09, 2021, Qualcomm Reference Number 208478, and all provisional applications relating thereto, together with **U.S. Provisional Application No(s)**. 63/081,302 filed September 21, 2020, Qualcomm Reference Number 208478P1, (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

Page 2 of 7

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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;

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;

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

Done So, (1777), CA , USA on 9/2//2021 Site State, Country Date State

Document ID: 1631793122275 v1

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

 Saw District
 CA USA
 on 12/3/m
 Hwan

 City, State, Country
 Date
 Hwan

Hwan Joon KWON

Page 4 of 7

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Page 5 of 7

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

SanDies, CA, V.S.A., on 09/28/2021 Done

City, State, Country

Peter GAAL

Document ID: 1631793122277 v1

Page 6 of 7

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

Done at

<u> 50000000</u>,

City, State, Country

Ahmed ELSHAFIE

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

San Diego, CA, USA, on 09/21/2021 M. Krishna Kiran MUKKAVILLI

**PATENT** REEL: 058354 FRAME: 0036

**RECORDED: 12/09/2021**