PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6480987

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS EDWIN FRISINGER	01/04/2021
RICHARD HAMMERSTONE	12/28/2020
ANDREW EVAN GRUBER	12/27/2020
GANG ZHONG	01/04/2021
YUN DU	12/29/2020
JONNALA GADDA NAGENDRA KUMAR	01/04/2021

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:	17085272

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.

Phone: 619-238-1900

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

525 B STREET, SUITE 2200 Address Line 1: Address Line 4: SAN DIEGO, CALIFORNIA 92101

ATTORNEY DOCKET NUMBER:	129025-0169UT01/205961
NAME OF SUBMITTER:	PATRICK LEMUS
SIGNATURE:	/Patrick Lemus/
DATE SIGNED:	01/05/2021

Total Attachments: 8

PATENT REEL: 054818 FRAME: 0734

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Quatcomm Reference Number: 205961

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ASSIGNMENT

WHEREAS, WE,

- 1. Thomas Edwin FRISINGER, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- Richard HAMMERSTONE, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- Andrew Evan GRUBER, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 4. Gang ZHONG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 5. Yun DU, having a mailing address located at \$775 Morehouse Drive, San Diego, California 92121-1714.
- Jonnala Gadda NAGENDRA KUMAR, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.

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 FAST INCREMENTAL SHARED CONSTANTS (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). 17/085.272 filed October 30, 2020, Qualcomm Reference Number 205961, 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

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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;

لًا Done at	knisky,M	A. on /	14/21	
	City, State		Date	Thomas Edwin FRISINGER
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	City, State		Date	Richard HAMMERSTONE
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rone at	City, State	, on	Date	Andrew Evan GRUBER
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0 0 2000	City State		Date	Jonnala Cadda NACENDRA KUMAI

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Qualcomm Reference Number: 205961
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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	Date	Thomas Edwin FRISINGER
Done at 1	Jugabio, MA	, on <u>28 dec 2020</u> Date	Richard HAMMERSTONE
	Čity, State	Date	Richard HAMMERSTONE
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	City, State	, on Dete	Andrew Evan GRUBER
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	City, State	Date	Jonnala Gadda NAGENDRA KUMAI

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	City, State	Date	Thomas Edwin FRISINGER
Done at _	City. State	, on	Richard HAMMERSTONE
	A .	on 12/27/20 Date	Andrew Evan GRUBER
Done at _	City, State	on	Gang ZHONG
Done at _	City, State	on	Yun DU
Done at _	City State	on	Jamela Cadda NA CENDRA WILMAR
	City, State	Date	Jonnala Gadda NAGENDRA KUMAR

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	City, State	Date	Thomas Edwin FRISINGER
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	City, State	Date	Richard HAMMERSTONE
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	City, State	Date	Andrew Evan GRUBER
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	City, State	Date	Yun DU
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•	City, State	Date	Jonnala Gadda NAGENDRA KUMAF

AND WE HEREBY coverant that WE will not execute any sorting or do any activities are of the say activities and activities are say activities.

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Done at 🗵	AND)EGO <u>, (A</u> , o City, State	n <u>01/04/2021</u>	
	City, State	Date	Jonnala Gadda NAGENDRA KUMA

PATENT REEL: 054818 FRAME: 0743

RECORDED: 01/05/2021