507029678 12/15/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7076514

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUN DU	06/25/2021
ANDREW EVAN GRUBER	06/24/2021
CHIHONG ZHANG	07/08/2021
JIAN JIANG	07/01/2021
GANG ZHONG	07/16/2021
BAOGUANG YANG	07/23/2021
YANG XIA	06/25/2021
CHUN YU	07/30/2021
ERIC DEMERS	07/16/2021

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:	17356434

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

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

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

ATTORNEY DOCKET NUMBER: 129025-0754UT01/2102161 NAME OF SUBMITTER: PATRICK LEMUS

SIGNATURE:	/Patrick Lemus/		
DATE SIGNED:	12/15/2021		
Total Attachments: 11			
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ASSIGNMENT

WHEREAS, WE,

- 1. Yun DU, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 2. Andrew Evan GRUBER, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 3. Chihong ZHANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 4. Jian JIANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 5. Gang ZHONG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 6. **Baoguang YANG,** having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 7. Yang XIA, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 8. Chun YU, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 9. Eric DEMERS, 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 **METHODS AND APPARATUS FOR CONSTANT DATA STORAGE** (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). 17/356,434 filed June 23, 2021, Qualcomm Reference Number 2102161, 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 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

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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	- 	, on		
	City, State, Country		Date	Yun DU
Done at	City, State, Country	95/A on 6/2	4/2/ Date	Andrew Evan GRUBER
Done at	City, State, Country	, on	Date	Chihong ZHANG
Done at _	City, State, Country	on	Date	Jian JIANG
Done at _	City, State, Country	on	Date	Gang 7HONG

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Execute all applications and conflictes make all rightful de basilions and/or early and provide
all lawful associated to and ASSIGNED at any course at legal representatives and its angular to
obtain and ordered patent protection for earl INVENTIONS in all countries.

AND WE HEREBY coveriant that WE will not execute any writing or do any activation executions with these presents

Note the State Country	Digre	Yun Di
None at	Date	Andrew Evan GRUBER
5775 Morehouse Or., San Diego, CA	7/8/2021	Chyro
	Date	Juan II A W.

PATENT

Qualcomm Reference Number: 2102161

Page 3 of 4

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	• 00		
	City, State, Country	Date	Yun DU
Done at	, on		
	City, State, Country	Date	Andrew Evan GRUBER
Done at	, on	Date	Chibong ZHANG
Jone at	San Nagli, A. USA, on7 City, State, Country	7 <u>/ </u>	Zow Ji Owe Jian HANG
Done at	, on City, State, Country		
	City, State, Country	Date	Gang ZHONG

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:

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	City, State, Country		Date	Yun DU
Done at		, on		
	City, State, Country	-2	Date	Andrew Evan GRUBER
Maria a a		(Action)		
Jone at	City, State, Country	. 08	Date	Chihong ZHANG
Done at	City, State, Country	, on	Date	Jian JIANG
	cong, comme			
Done at	Son Digo City, State, Ohintry	, on 7/1	6/2041	1500/5
	City, State, Chantry	. 31	Date	Gang ZHONG

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

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	City, State, Country	Date	Baoguang YANG	
Oone at	on City, State, Country	Daic	Yang XIA	.uuuuuuuu
Done at	City, State, Country	Date	Chun YU	
Done at	, on	Date	Eric DEMERS	

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	Baoguang YANG	
Done at (Dego, CA, VS, on City, State, Country	6/25/2021 Date	Yang XIA	
Done at	, on City, State, Country	Date	Chun YU	
Done at		Date	Eric DEMERS	

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	Baoguang YANG			
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Done at	<u> </u>	on				
	City, State, Country	Date	Yang XIA			
	full M	***				
Done at	Zan Viego,	on <u>7/30/202</u> /	Clum			
	City, State, Country	Date	Chun YU			
Done at	•	on				
	City, State, Country	Date	Eric DEMERS			

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

Description of the second	City State Country	Date :	Bacquarq VASO	
Consensi	City State Country	Date:	Yang NIA	
Donest	City State Country	Onre Date	Chun YU	
Dane of	se o Diego (A.)	on 7/16/21	En DENERS	Daniel