506164568 07/21/2020 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	DATA				
		Name	Execution Date		
MARTA KARCZEWICZ	<u>,</u>		07/06/2020		
MUHAMMED ZEYD CO	OBAN		05/06/2020		
HONGTAO WANG			05/08/2020		
RECEIVING PARTY D	ΑΤΑ				
Name:	QUALCC	OMM INCORPORATED			
Street Address:	5775 MO	REHOUSE DRIVE			
City:	SAN DIE	GO			
State/Country:	CALIFOF	RNIA			
Postal Code:	92121-17	714			
Property Type	•	Number			
Application Number:	16	6814654			
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CORRESPONDENCE Fax Number: <i>Correspondence will i</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER	DATA (6 be sent to t f provided; 6 f provided; 6 pa 5 16 10 10 10 10 10 10 10 10 10 10 10 10 10	551)735-1102 The e-mail address first; if that is un if that is unsuccessful, it will be ser 51 735 1100 airdocketing@ssiplaw.com HUMAKER & SIEFFERT, P. A. 525 RADIO DRIVE, SUITE 100 /OODBURY, MINNESOTA 55125 1414-736US01/191830 SHIRLEY A. BETLACH			
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ASSIGNMENT

WHEREAS, WE,

1. Marta KARCZEWICZ, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,

2. Muhammed Zeyd COBAN, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,

3. Hongtao WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 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 **COEFFICIENT CODING FOR TRANSFORM SKIP MODE** (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. 16/814,654 filed March 10, 2020, Qualcomm Reference Number 191830, and all provisional applications relating thereto, together with U.S. Provisional Application No. 62/816,745, filed March 11, 2019, Qualcomm Reference Number 191830P1 and U.S. Provisional Application No. 62/850,453, filed May 20, 2019, Qualcomm Reference Number 191830P2, (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;

PATENT Qualcomm Reference Number: 191830 Page 3 of 3

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

Done at	an Dergel, .	n	07/06/20	Korcreider
~	City, State		Date	Marta KARCZEWICZ
Done at		n_		
	City, State		Date	Muhammed Zeyd COBAN
Done at	s 0	n		
	City, State		Date	Hongtao WANG

PATENT REEL: 053270 FRAME: 0145

ASSIGNMENT

WHEREAS, WE,

1. Marta KARCZEWICZ, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,

2. Muhammed Zeyd COBAN, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,

3. Hongtao WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,

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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;

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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;

PATENT

Qualcomm Reference Number: 191830 Page 3 of 3

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

Done at j	City, State	**	Marta KARCZEWICZ
	City, State	Date	Marta KARCZEWICZ
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Done at	<u>Sηγ ///E60 (μ</u> , on City, State	<u> </u>	Muhammed Zeyd COBAN
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27.010 QC	City, State		Hongtao WANG
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PATENT REEL: 053270 FRAME: 0148

ASSIGNMENT

WHEREAS, WE,

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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;

PATENT Qualcomm Reference Number: 191830 Page 3 of 3

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Done at	, on		
	City, State	Date	Marta KARCZEWICZ
Done at_	, on		
	City, State	Date	Muhammed Zeyd COBAN
Done at	an Diego, CA. on	05/08/2020	Horgho Way Hongtao WANG
· · · · · · · · · · · · · · · · · · ·	City, State	Date	Hongtao WANG

RECORDED: 07/21/2020