506215673 08/21/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6262417

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KAI ZHANG	08/20/2018
JIANLE CHEN	08/19/2018
LI ZHANG	08/20/2018
XIANG LI	09/13/2018
MARTA KARCZEWICZ	09/17/2018

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:	16999741

CORRESPONDENCE DATA

Fax Number: (651)735-1102

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: 651 735 1100

Email:pairdocketing@ssiplaw.comCorrespondent Name:SHUMAKER & SIEFFERT, P. A.Address Line 1:1625 RADIO DRIVE, SUITE 100Address Line 4:WOODBURY, MINNESOTA 55125

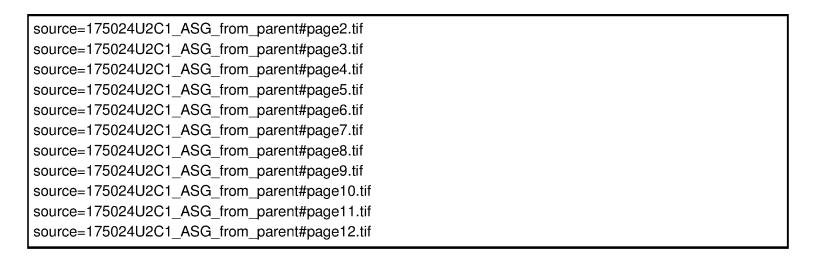
ATTORNEY DOCKET NUMBER:	1414-577US02/175024U2C1	
NAME OF SUBMITTER:	PATRICIA CYGAN	
SIGNATURE:	/Patricia Cygan/	
DATE SIGNED:	08/21/2020	

Total Attachments: 12

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PATENT REEL: 053564 FRAME: 0502

506215673



WHEREAS, WE,

- 1. Kai ZHANG, a citizen of the People's Republic of China, having a mailing address located at 9505 Gold Coast Apt 72, San Diego, CA 92126, and a resident of San Diego, CA,
- 2. Jianle CHEN, a citizen of the People's Republic of China, having a mailing address located at 10756 Corte De Tiburon, San Diego, CA 92130, and a resident of San Diego, CA,
- 3. Li ZHANG, a citizen of the People's Republic of China, having a mailing address located at 15088 Barolo Ct., San Diego, CA 92127, and a resident of San Diego, CA,
- Xiang LI, a citizen of the People's Republic of China, having a mailing address located at 16345 Los Gatos Blvd., Unit 41, Los Gatos, CA 95032, and a resident of Los Gatos, CA,
- 5. Marta KARCZEWICZ, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of San Diego, CA,

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 COMBINATION OF INTER-PREDICTION AND INTRA-PREDICTION IN VIDEO CODING (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. 16/015,027 filed June 21, 2018, Qualcomm Reference No. 175024U2, and all provisional applications relating thereto, together with U.S. Provisional Application No. 62/524,231, filed June 23, 2017, Qualcomm Reference No. 175024P1, (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 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;

Done at _	Son Dieg D LOCATION	on Aug 20, 2018	Keri Zhay Kai ZHANG
Done at_	LOCATION	, on	Jianle CHEN
Done at	San Diego LOCATION	on 08/20/2018	Lizhang
Done at	LOCATION	, on	Xiang LI
Done at	LOCATION	, on DATE	Marta KARCZEWICZ

WHEREAS, WE,

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Done at		LOCATION	DATE	Kai ZHANG
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		LOCATION	DATE	Jame Cites
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LOCATION DATE Xiang LI	Done at	٥٠	n	
		LOCATION	DATE	Xiang LI
Done at, on	Done at		nn	Marta KARCZEWICZ

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Done at	, on		
	LOCATION	DATE	Kai ZHANG
Done at	, on_		
	LOCATION	DATE	Jianle CHEN
Done at	, on	DATE	
Done at \sqrt{c}	<u> 5 Gotos</u> , on _	3/13/228	Li ZHANG
Done at	LOCATION , on _	DATE DATE	Xiang (LI) Marta KARCZEWICZ

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e de la companya de	LOCATION	DATE	Kai ZHANG
Done at	, on		
	LOCATION	DATE	Jianle CHEN
Example of	Cert		
Done at _	LOCATION , on	DATE	LiZHANG
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,	EOCATION	DATE	Xiang LI
Done at	Sain Regulson.	0411712018	Locally_
Francisco (ye	LOCATION	BATE	Marta KARCZEWICZ

PATENT REEL: 053564 FRAME: 0515

RECORDED: 08/21/2020