505997437 04/02/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VASANTHAN RAGHAVAN	12/04/2018
MOHAMMAD ALI TASSOUDJI	12/04/2018
KOBI RAVID	12/04/2018
YU-CHIN OU	01/09/2019
OZGE KOYMEN	12/10/2018
JUNYI LI	12/04/2018

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:	16783053

CORRESPONDENCE DATA

Fax Number:

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: 214 651 5000

Email: ipdocketing@haynesboone.com **Correspondent Name:** HAYNES AND BOONE, LLP (36340)

Address Line 1: IP SECTION

Address Line 2: 2323 VICTORY AVENUE, SUITE 700

Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER: 49606.555US02 (182848C1)		
NAME OF SUBMITTER:	MATTHEW MCKAIG	
SIGNATURE:	/Matthew McKaig/	
DATE SIGNED:	04/02/2020	

PATENT 505997437 REEL: 052298 FRAME: 0278

Total Attachments: 9 source=182848C1_ASG_2019-02-06_49606-555US02_CUTE#page1.tif source=182848C1_ASG_2019-02-06_49606-555US02_CUTE#page2.tif source=182848C1_ASG_2019-02-06_49606-555US02_CUTE#page3.tif source=182848C1_ASG_2019-02-06_49606-555US02_CUTE#page4.tif source=182848C1_ASG_2019-02-06_49606-555US02_CUTE#page5.tif source=182848C1_ASG_2019-02-06_49606-555US02_CUTE#page6.tif source=182848C1_ASG_2019-02-06_49606-555US02_CUTE#page7.tif source=182848C1_ASG_2019-02-06_49606-555US02_CUTE#page8.tif source=182848C1_ASG_2019-02-06_49606-555US02_CUTE#page8.tif

ASSIGNMENT

WHEREAS, WE.

- 1. Vasanthan RAGHAVAN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of West Windsor Township, New Jersey,
- 2. Mohammad Ali TASSOUDJI, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California.
- 3. Kobi RAVID, a citizen of Israel, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Closter, New Jersey.
- 4. Yu-Chin OU, a citizen of Taiwan, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California.
- 5. Ozge KOYMEN, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Princeton, New Jersey, and
- 6. Junyi LI, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Prive, San Diego, CA 92121 and a resident of Chester, New Jersey,

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 MITIGATION OF CALIBRATION ERRORS (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). 16/138,880 filed September 21, 2018, Qualcomm Reference No. 182848, 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 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		
	LOCATION	DATE	Vasanthan RAGHAVAN
Done at_	, on		8
	LOCATION on _	DATE	Mohammad Ali TASSOUDJI
Done at_	, on		
	LOCATION	DATE	Kobi RAVID
Done at_	Can Digo, on_	1/9/19	the subject of
	LOCATION	DATE	Yu-Chin OU
Done at_	, on		
	LOCATION on	DATE	Ozge KOYMEN
Done at_	, on		
	LOCATION	DATE	Junyi LI

ASSIGNMENT

WHEREAS, WE,

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- 4. Yu-Chin OU, a citizen of Taiwan, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,
- 5. Ozge KOYMEN, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Princeton, New Jersey, and
- 6. Junyi LI, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Chester, New Jersey,

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 **MITIGATION OF CALIBRATION ERRORS** (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.

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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;

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

Done at_		on	
	LOCATION	DATE	Vasanthan RAGHAVAN
Done at	SAN DIEGO, O	on 12/4/2018 DATE	Mohammad Ali TASSOUDJI
Done at_		on	
	LOCATION	DATE	Kobi RAVID
Done at	• ©	ón	
	LOCATION , C	DATE	Yu-Chin OU
Done at		on	
	LOCATION	DATE	Ozge KOYMEN
Done at		in	
	LOCATION	DATE	Junvi Li

ASSIGNMENT

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		not execute any writing or do any act
whatsoever conflicting with these	e presents.	inte
Done at Didagewares, on LOCATION	12/4/18	<u> </u>
LOCATION	ĎATE	Vasanthan RAGHAVAN
Done at, on _		
LOCATION	DATE	Mohammad Ali TASSOUDJI
Done at Bridgewares, on _	12/4/18	
LOCATION	DATE	Kobi RAVID
Done at , on		
LOCATION	DATE	Yu-Chin OU
NJ" Done af <u>Bridgewarer</u> , on _	12-10-18	
LOCATION	DATE	Ozge KOYMEN
Done af Bridgewater, on_	12/4/18	
LOCATION	DATE	Junyi LI 🥢 🎽

RECORDED: 04/02/2020