

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6942504

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JING LEI	07/29/2021
LINHAI HE	08/25/2021
YONGJUN KWAK	07/29/2021
HUILIN XU	07/25/2021
KRISHNA KIRAN MUKKAVILLI	08/10/2021
WANSHI CHEN	07/30/2021
HWAN JOON KWON	09/28/2021
TINGFANG JI	08/10/2021
RECEIVING PARTY DATA	
Name:	QUALCOMM INCORPORATED
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121-1714
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	17443904
Application Number:	62706077
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Phone:	5714320800
Email:	docket@harrityllp.com
Correspondent Name:	HARRITY & HARRITY, LLP
Address Line 1:	11350 RANDOM HILLS RD
Address Line 2:	SUITE 600
Address Line 4:	FAIRFAX, VIRGINIA 22030
ATTORNEY DOCKET NUMBER:	0097-1952/206907
NAME OF SUBMITTER:	SARA STESNEY

PATENT

SIGNATURE:	/Sara Stesney/
DATE SIGNED:	09/29/2021
Total Attachments: 10 source=206907 Assignment as Filed#page1.tif source=206907 Assignment as Filed#page2.tif source=206907 Assignment as Filed#page3.tif source=206907 Assignment as Filed#page4.tif source=206907 Assignment as Filed#page5.tif source=206907 Assignment as Filed#page6.tif source=206907 Assignment as Filed#page7.tif source=206907 Assignment as Filed#page8.tif source=206907 Assignment as Filed#page9.tif source=206907 Assignment as Filed#page10.tif	

ASSIGNMENT

WHEREAS, WE,

1. **Jing LEI**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121, US**,
2. **Linhai HE**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121, US**,
3. **Yongjun KWAK**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121, US**,
4. **Huilin XU**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121, US**,
5. **Krishna Kiran MUKKAVILLI**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121, US**,
6. **Wanshi CHEN**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121, US**,
7. **Hwan Joon KWON**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121, US**,
8. **Tingfang JI**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121, US**,

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 **BEAM-BASED CONFIGURED GRANT – SMALL DATA TRANSFER OCCASIONS** (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). 17/443,904 filed July 28, 2021, **Qualcomm Reference Number 206907**, and all provisional applications relating thereto, together with **U.S. Provisional Application No(s). 62/706,077, filed July 30, 2020, **Qualcomm Reference Number 206907P1**, (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;

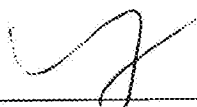
AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, 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 San Diego, CA, USA, on 7/29/2021 
City, State, Country Date Jing LEI

Done at _____, on _____
City, State, Country Date Linhai HE

Done at _____, on _____
City, State, Country Date Yongjun KWAK

Done at _____, on _____
City, State, Country Date Huilin XU

Done at _____, on _____
City, State, Country Date Krishna Kiran
MUKKAVILLI

Done at _____, on _____
City, State, Country Date Wanshi CHEN

Done at _____, on _____
City, State, Country Date Hwan Joon KWON

Done at _____, on _____
City, State, Country Date Tingfang JI

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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, Country Date Jing LEI

Done at San Diego, CA, USA, on Aug 25, 2021
City, State, Country Date Linhai HE

Done at _____, on _____
City, State, Country Date Yongjun KWAK

Done at _____, on _____
City, State, Country Date Huilin XU

Done at _____, on _____
City, State, Country Date Krishna Kiran MUKKAVILLI

Done at _____, on _____
City, State, Country Date Wanshi CHEN

Done at _____, on _____
City, State, Country Date Hwan Joon KWON

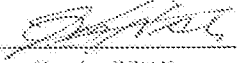
Done at _____, on _____
City, State, Country Date Tingfang JI

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Done at _____, on _____
City, State, Country Date Jing LEI

Done at _____, on _____
City, State, Country Date Linhai HE

Done at San Diego, CA, on 7-29-2024
USA Date 
City, State, Country Date Yongjun KWAK

Done at _____, on _____
City, State, Country Date Hulin XU

Done at _____, on _____
City, State, Country Date Krishna Kiran
MUKKAVILLI

Done at _____, on _____
City, State, Country Date Wanshi CHEN

Done at _____, on _____
City, State, Country Date Hwan Joon KWON

Done at _____, on _____
City, State, Country Date Tingfang Ji


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Done at _____, on _____
City, State, Country Date Jing LEI

Done at _____, on _____
City, State, Country Date Linhai HE

Done at _____, on _____
City, State, Country Date Yongjun KWAK

Done at Temecula, CA, USA, on 07/29/2021
City, State, Country Date 
Huilin XU

Done at _____, on _____
City, State, Country Date Krishna Kiran
MUKKAVILLI

Done at _____, on _____
City, State, Country Date Wanshi CHEN

Done at _____, on _____
City, State, Country Date Hwan Joon KWON

Done at _____, on _____
City, State, Country Date Tingfang JI

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Done at _____, on _____
City, State, Country Date Jing LEI

Done at _____, on _____
City, State, Country Date Linhai HE

Done at _____, on _____
City, State, Country Date Yongjun KWAK

Done at _____, on _____
City, State, Country Date Huilin XU

Done at San Diego, CA, USA, on 08/10/2022
City, State, Country Date Krishna Kiran MUKKAVILLI

Done at _____, on _____
City, State, Country Date Wanshi CHEN

Done at _____, on _____
City, State, Country Date Hwan Joon KWON

Done at _____, on _____
City, State, Country Date Tingfang Ji

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Done at _____, on _____
City, State, Country Date Jing LEI

Done at _____, on _____
City, State, Country Date Linhai HE

Done at _____, on _____
City, State, Country Date Yongjun KWAK

Done at _____, on _____
City, State, Country Date Huilin XU

Done at _____, on _____
City, State, Country Date Krishna Kiran
MUKKAVILLI

Done at San Diego CA, USA, on 7/30/2024
City, State, Country Date Wanshi CHEN

Done at _____, on _____
City, State, Country Date Hwan Joon KWON

Done at _____, on _____
City, State, Country Date Tingfang JI

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Done at _____, on _____
City, State, Country Date Jing LEI

Done at _____, on _____
City, State, Country Date Linhai HE

Done at _____, on _____
City, State, Country Date Yongjun KWAK

Done at _____, on _____
City, State, Country Date Huilin XU

Done at _____, on _____
City, State, Country Date Krishna Kiran
MUKKAVILLI

Done at _____, on _____
City, State, Country Date Wanshi CHEN

Done at San Diego, CA, on 9/28/2021
USA Date Hwan Joon KWON

Done at _____, on _____
City, State, Country Date Tingfang JI

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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Done at _____, on _____
City, State, Country Date Jing LEI

Done at _____, on _____
City, State, Country Date Linhai HE


Done at _____, on _____
City, State, Country Date Yongjun KWAK

Done at _____, on _____
City, State, Country Date Huilin XU

Done at _____, on _____
City, State, Country Date Krishna Kiran
MUKKAVILLI

Done at _____, on _____
City, State, Country Date Wanshi CHEN

Done at _____, on _____
City, State, Country Date Hwan Joon KWON

Done at San Diego, CA, USA, on 8/10/2021
City, State, Country Date 
Tingfang Ji