

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8045330

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the IVENTOR 9'S FIRST NAME SHOULD BE XIAOFENG previously recorded on Reel 057105 Frame 0115. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
SEYED ALI AKBAR FAKOORIAN	01/13/2017
ALBERTO RICO ALVARINO	01/13/2017
PETER GAAL	01/13/2017
WANSHI CHEN	01/14/2017
YONGBIN WEI	01/16/2017
JUAN MONTOJO	01/18/2017
RENQIU WANG	01/13/2017
HAO XU	01/13/2017
XIAOFENG WANG	01/14/2017

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:	17392230

CORRESPONDENCE DATA

Fax Number: (713)623-4846

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: 7136234844

Email: psdocketing@pattersonsheridan.com, sdominguez@pattersonsheridan.com

Correspondent Name: PATTERSON + SHERIDAN, LLP

Address Line 1: 24 GREENWAY PLAZA

Address Line 2: SUITE 1600

Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER:	QUAL/161743USC01
NAME OF SUBMITTER:	STEPHANIE DOMINGUEZ
SIGNATURE:	/STEPHANIE DOMINGUEZ/
DATE SIGNED:	07/07/2023

Total Attachments: 6

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT																				
NATURE OF CONVEYANCE:	ASSIGNMENT																				
CONVEYING PARTY DATA																					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>SEYED ALI AKBAR FAKOORIAN</td> <td>01/13/2017</td> </tr> <tr> <td>ALBERTO RICO ALVARINO</td> <td>01/13/2017</td> </tr> <tr> <td>PETER GAAL</td> <td>01/13/2017</td> </tr> <tr> <td>WANSHI CHEN</td> <td>01/14/2017</td> </tr> <tr> <td>YONGBIN WEI</td> <td>01/16/2017</td> </tr> <tr> <td>JUAN MONTOJO</td> <td>01/18/2017</td> </tr> <tr> <td>RENQIU WANG</td> <td>01/13/2017</td> </tr> <tr> <td>HAO XU</td> <td>01/13/2017</td> </tr> <tr> <td>XIAO FENG WANG</td> <td>01/14/2017</td> </tr> </tbody> </table>		Name	Execution Date	SEYED ALI AKBAR FAKOORIAN	01/13/2017	ALBERTO RICO ALVARINO	01/13/2017	PETER GAAL	01/13/2017	WANSHI CHEN	01/14/2017	YONGBIN WEI	01/16/2017	JUAN MONTOJO	01/18/2017	RENQIU WANG	01/13/2017	HAO XU	01/13/2017	XIAO FENG WANG	01/14/2017
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CORRESPONDENCE DATA

Fax Number: (713)623-4846
Phone: 713-623-4844
Email: gochoa@pattersonsheridan.com,psdocketing@pattersonsheridan.com
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.
Correspondent Name: PATTERSON & SHERIDAN, LLP
Address Line 1: 24 GREENWAY PLAZA
Address Line 2: SUITE 1600
Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER:	QUAL/161743USC01
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NAME OF SUBMITTER:	PUJA S. DETJEN
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Signature:	/Puja S. Detjen/
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Date:	08/06/2021
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Total Attachments: 4

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RECEIPT INFORMATION

EPAS ID: PAT6852679
Receipt Date: 08/06/2021

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ASSIGNMENT

WHEREAS, WE,

1. **Seyed Ali Akbar FAKOORIAN**, a citizen of the **Islamic Republic of Iran**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714 and a resident of **San Diego, California**,
2. **Alberto RICO ALVARINO**, a citizen of **Spain**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714 and a resident of **San Diego, California**,
3. **Peter GAAL**, a citizen of the **United States of America**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714 and a resident of **San Diego, California**,
4. **Wanshi CHEN**, a citizen of **People's Republic of China**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-17140 and a resident of **San Diego, California**,
5. **Yongbin WEI**, a citizen of the **United States of America**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714 and a resident of **La Jolla, California**,
6. **Juan MONTOJO**, a citizen of the **United States of America**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714 and a resident of **San Diego, California**,
7. **Renqiu WANG**, a citizen of **Canada**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714 and a resident of **San Diego, California**,
8. **Hao XU**, a citizen of the **United States of America**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714 and a resident of **San Diego, California**, and
9. **Xiaofeng WANG**, a citizen of **Canada**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714 and a resident of **San Diego, California**,

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 **UPLINK DATA CHANNEL DESIGN FOR NARROWBAND DEVICES** (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, or under International Conventions, Treaties, or Agreements, U.S. Application No. **15/371,885**, filed **December 7, 2016**, Qualcomm Reference No. **161743**, and all provisional applications relating thereto, together with U.S. Provisional Application No. **62/277,471**, filed **January 11, 2016**, Qualcomm Reference No. **161743P1**; U.S. Provisional Application No. **62/280,686**, filed **January 19, 2016**; Qualcomm Reference No. **161743P2**; U.S. Provisional Application No. **62/296,568**, filed **February 17, 2016**, Qualcomm Reference No. **161743P3**, and 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;

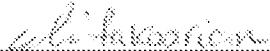
AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, 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;

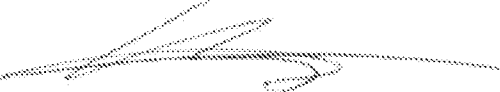
AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, 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;

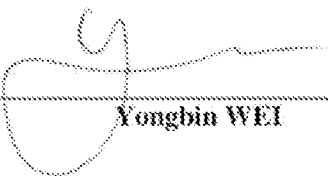
AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

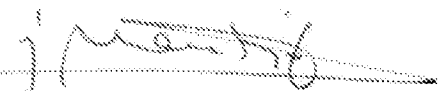
Done at San Diego , on 1/13/2017
LOCATION DATE

Seyed Ali Akbar FAKOORIAN

Done at San Diego , on 01/13/2017
LOCATION DATE

Alberto RICO ALVARINO

Done at San Diego , on 01/13/2017
LOCATION DATE

Peter GAAL

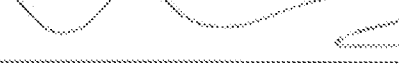
Done at San Diego , on 01/14/2017
LOCATION DATE

Wanshi CHEN

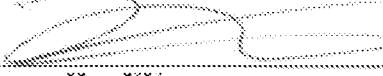
Done at San Diego , on 1/16/17
LOCATION DATE

Yongbin WEI

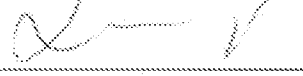
Done at San Diego , on 1/17/17
LOCATION DATE

Juan MONTOJO

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, on 01/13/2017
LOCATION DATE 
Renqiu WANG

Done at San Diego, on 1/13/2017
LOCATION DATE 
Hao XU

Done at San Diego, on 01/14/2017
LOCATION DATE 
Xiaofeng WANG