

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6815448

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JING LEI	05/01/2020
LINHAI HE	01/04/2021
HUNG DINH LY	05/04/2020
SEYONG PARK	06/30/2021
NAGA BHUSHAN	10/12/2020
YING WANG	05/04/2020
WANSHI CHEN	03/27/2020
JOSEPH BINAMIRA SORIAGA	05/10/2020
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:	16778956
Application Number:	62803288
CORRESPONDENCE DATA	
Fax Number:	(303)473-2720
<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:	3034732700
Email:	eajuntunen@hollandhart.com
Correspondent Name:	MICHAEL DRAPKIN
Address Line 1:	P.O. BOX 11583
Address Line 4:	SALT LAKE CITY, UTAH 84147
ATTORNEY DOCKET NUMBER:	PR329.01 (103038.1226)
NAME OF SUBMITTER:	MICHAEL L. DRAPKIN

SIGNATURE:	/Michael L. Drapkin/
DATE SIGNED:	07/15/2021
Total Attachments: 10 source=191374_Assignment#page1.tif source=191374_Assignment#page2.tif source=191374_Assignment#page3.tif source=191374_Assignment#page4.tif source=191374_Assignment#page5.tif source=191374_Assignment#page6.tif source=191374_Assignment#page7.tif source=191374_Assignment#page8.tif source=191374_Assignment#page9.tif source=191374_Assignment#page10.tif	

ASSIGNMENT

WHEREAS, WE,

1. **Jing LEI**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA, 92121-1714**,
2. **Linhai HE**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA, 92121-1714**,
3. **Hung Dinh LY**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA, 92121-1714**,
4. **Seyong PARK**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA, 92121-1714**,
5. **Naga BHUSHAN**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA, 92121-1714**,
6. **Ying WANG**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA, 92121-1714**,
7. **Wanshi CHEN**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA, 92121-1714**,
8. **Joseph Binamira SORIAGA**, 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 **FALLBACK PROCEDURES FOR TWO-STEP RANDOM ACCESS PROCEDURES** (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. **16/778,956** filed **January 31, 2020**, Qualcomm Reference No. **191374**, and all provisional applications relating thereto, together with U.S. Provisional Application No. **62/803,288** filed **February 8, 2019**, Qualcomm Reference No. **191374P1**, (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;

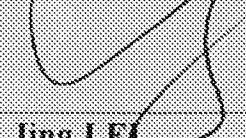
AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors,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

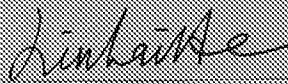
AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents;

Done at <u>San Diego</u> , on <u>5/1/2000</u>	
LOCATION DATE	Jing LEI
Done at _____, on _____	_____
LOCATION DATE	Linhai HE
Done at _____, on _____	_____
LOCATION DATE	Hung Dinh LY
Done at _____, on _____	_____
LOCATION DATE	Seyong PARK
Done at _____, on _____	_____
LOCATION DATE	Naga BHUSHAN
Done at _____, on _____	_____
LOCATION DATE	Ying WANG
Done at _____, on _____	_____
LOCATION DATE	Wanshi CHEN
Done at _____, on _____	_____
LOCATION DATE	Joseph Binamira SORIAGA

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 Jing LEI

Done at San Diego, CA, on Jan 4, 2021
LOCATION DATE 
Linhai HE

Done at _____, on _____
LOCATION DATE Hung Dinh LY

Done at _____, on _____
LOCATION DATE Seyoung PARK

Done at _____, on _____
LOCATION DATE Naga BHUSHAN

Done at _____, on _____
LOCATION DATE Ying WANG

Done at _____, on _____
LOCATION DATE Wanshi CHEN

Done at _____, on _____
LOCATION DATE Joseph Binamira SORIAGA

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

Jing LEI

Done at _____, on _____
LOCATION DATE

Linhai HE

Done at San Diego CA, on 05/04/2020
LOCATION DATE


Hung Dinh LY

Done at _____, on _____
LOCATION DATE

Seyong PARK

Done at _____, on _____
LOCATION DATE

Naga BHUSHAN

Done at _____, on _____
LOCATION DATE

Ying WANG

Done at _____, on _____
LOCATION DATE

Wanshi CHEN

Done at _____, on _____
LOCATION DATE

Joseph Binamira SORIAGA

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 Jing LEI

Done at _____, on _____
LOCATION DATE Linhai HE

Done at _____, on _____
LOCATION DATE Hung Dinh LY

Done at San Diego, CA, on 6-30-2001
LOCATION DATE  Seyong PARK

Done at _____, on _____
LOCATION DATE Naga BHUSHAN

Done at _____, on _____
LOCATION DATE Ying WANG

Done at _____, on _____
LOCATION DATE Wanshi CHEN

Done at _____, on _____
LOCATION DATE Joseph Binamira SORIAGA

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 Jing LEI

Done at _____, on _____
LOCATION DATE Linhai HE

Done at _____, on _____
LOCATION DATE Hung Dinh LY

Done at _____, on _____
LOCATION DATE Seyong PARK

Done at SAN DIEGO, CA, on 10/12/2020
LOCATION DATE *N. S. Naga Bhushan*
Naga BHUSHAN

Done at _____, on _____
LOCATION DATE Ying WANG

Done at _____, on _____
LOCATION DATE Wanshi CHEN

Done at _____, on _____
LOCATION DATE Joseph Binamira SORIAGA

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 patents.

Done at _____ on _____
LOCATION DATE Jig LEE

Done at _____ on _____
LOCATION DATE Linhai HU

Done at _____ on _____
LOCATION DATE Hung Dinh LI

Done at _____ on _____
LOCATION DATE Seung PARK

Done at _____ on _____
LOCATION DATE Hugo EHLISMAN

Done at San Diego on 12/12/2004
LOCATION DATE 
Ting WANG

Done at _____ on _____
LOCATION DATE Wanchi CHEN

Done at _____ on _____
LOCATION DATE Joseph Benjamin MORLAZ

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 Jing LEI



Done at _____, on _____
LOCATION DATE Linhai HE

Done at _____, on _____
LOCATION DATE Hung Dinh LY

Done at _____, on _____
LOCATION DATE Seyong PARK

Done at _____, on _____
LOCATION DATE Naga BHUSHAN

Done at _____, on _____
LOCATION DATE Ying WANG

Done at  _____, on 3/27/2020
LOCATION DATE 
Wanshi CHEN

Done at _____, on _____
LOCATION DATE Joseph Binamira SORIAGA

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 **Jing LEI**

Done at _____, on _____
LOCATION DATE **Linhai HE**


Done at _____, on _____
LOCATION DATE **Hung Dinh LY**

Done at _____, on _____
LOCATION DATE **Seyong PARK**

Done at _____, on _____
LOCATION DATE **Naga BHUSHAN**

Done at _____, on _____
LOCATION DATE **Ying WANG**

Done at _____, on _____
LOCATION DATE **Wanshi CHEN**

Done at San Diego, CA, on 5/10/2020
LOCATION DATE 
Joseph Binamira SORIAGA