

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7647381

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the INVENTOR 1 MIDDLE NAME previously recorded on Reel 053773 Frame 0097. Assignor(s) hereby confirms the PRAVN.
CONVEYING PARTY DATA	
Name	Execution Date
MAKESH PRAVIN JOHN WILSON	03/21/2018
TAO LUO	03/20/2018
XIAO FENG WANG	03/20/2018
SONY AKKARAKARAN	03/20/2018
SUMEETH NAGARAJA	03/20/2018
SHENGBO CHEN	03/28/2018
KAUSHKI CHAKRABORTY	03/20/2018
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:	17021162
CORRESPONDENCE DATA	
Fax Number:	(713)623-4846
<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:	713-623-4844
Email:	RROSS@pattersonsheridan.com, psdocketing@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/173184USC01
NAME OF SUBMITTER:	MARCUS W. HAMMACK

PATENT

SIGNATURE:	/MARCUS W. HAMMACK/
DATE SIGNED:	11/16/2022
Total Attachments: 5 source=QUAL-173184USC01 ASSIGNMENT#page1.tif source=QUAL-173184USC01 ASSIGNMENT#page2.tif source=QUAL-173184USC01 ASSIGNMENT#page3.tif source=EPAS#page1.tif source=EPAS#page2.tif	



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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	
Name	Execution Date
MAKESH PRAVN JOHN WILSON	03/21/2018
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SHENGBO CHEN	03/28/2018
KAUSHIK CHAKRABORTY	03/20/2018
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State/Country:	CALIFORNIA
Postal Code:	92121
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17021162

CORRESPONDENCE DATA

Fax Number:
Phone: 713 623 4844
Email: rross@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, L.L.P. QUALCOMM
Address Line 1: 24 GREENWAY PLAZA, SUITE 1600
Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER:

173184USC01

NAME OF SUBMITTER:

MARCUS W. HAMMACK

Signature:

/MARCUS W. HAMMACK/

Date:

09/15/2020

Total Attachments: 3

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RECEIPT INFORMATION

EPAS ID: PAT6298592
Receipt Date: 09/15/2020

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ASSIGNMENT

WHEREAS, WE,

1. **Makeesh Pravin JOHN WILSON**, a citizen of **India**, having a mailing address located at **5775 Morehouse Drive; San Diego, California 92121-1714** and a resident of **San Diego, California**,
2. **Tao LUO**, 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**,
3. **Xiao Feng 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**,
4. **Sony AKKARAKARAN**, a citizen of **India**, having a mailing address located at **5775 Morehouse Drive; San Diego, California 92121-1714** and a resident of **Poway, California**,
5. **Sumeeth NAGARAJA**, a citizen of **India**, having a mailing address located at **5775 Morehouse Drive; San Diego, California 92121-1714** and a resident of **San Diego, California**,
6. **Shengbo CHEN**, a citizen of the **People's Republic of China**, having a mailing address located at **5775 Morehouse Drive; San Diego, California 92121-1714** and a resident of **San Diego, California**, and
7. **Kaushik CHAKRABORTY**, a citizen of **India**, 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 **NR UPLINK TRANSMIT BEAM SELECTION BASED ON PDCCH/PDSCH RECEIVE BEAMS** (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. **15/913,718**, filed **March 6, 2018**, Qualcomm Reference No. **173184**, and all provisional applications relating thereto, together with U.S. Provisional Application No. **62/469,710**, filed **March 10, 2017**, Qualcomm Reference No. **173184P1**; U.S. Provisional Application No. **62/470,188** filed **March 10, 2017**, Qualcomm Reference No. **173184P2** (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 nonprovisional applications, national phase applications, 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;

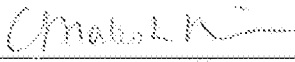
AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, 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;

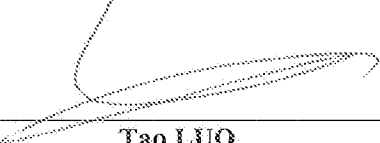
AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors,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

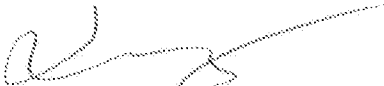
AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date 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.

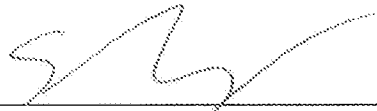
Done at San Diego , on 03/21/2018 
LOCATION DATE Makesh Pravin JOHN WILSON

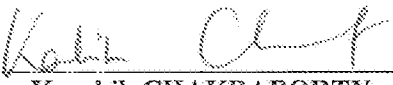
Done at San Diego , on 03/20/2018 
LOCATION DATE Tao LUO

Done at San Diego , on 3/20/2018 
LOCATION DATE Xiao Feng WANG

Done at San Diego , on 3/20/2018 
LOCATION DATE Sony AKKARAKARAN

Done at San Diego , on 3/20/2018 
LOCATION DATE Sumathi NAGARAJA

Done at San Diego , on 3/20/2018 
LOCATION DATE Shengbo CHEN

Done at San Diego , on 3/20/18 
LOCATION DATE Kaushik CHAKRABORTY