

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5087641

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the INVENTOR'S NAME previously recorded on Reel 038506 Frame 0970. Assignor(s) hereby confirms the CORRECT INVENTOR NAME IS ALEKSANDAR DAMNJANOVIC.
CONVEYING PARTY DATA	
Name	Execution Date
SHIMMAN PATEL	03/02/2016
WANSHI CHEN	03/02/2016
PETER GAAL	03/03/2016
ALEKSANDAR DAMNJANOVIC	03/02/2016
HAO XU	03/02/2016
YONGBIN WEI	03/07/2016
DURGA PRASAD MALLADI	03/02/2016
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:	14856242
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:	2028576000
Email:	patentdocket@arentfox.com
Correspondent Name:	ARENT FOX LLP
Address Line 1:	1717 K STREET, NW
Address Line 4:	WASHINGTON, D.C. 20006
ATTORNEY DOCKET NUMBER:	030284.10241/147354
NAME OF SUBMITTER:	DAVID M. NOONAN
SIGNATURE:	/David M. Noonan/

DATE SIGNED:	08/08/2018
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Total Attachments: 7

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Electronic Patent Assignment System

Confirmation Receipt

Your assignment has been received by the USPTO.
The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:

CORRECTIVE ASSIGNMENT

NATURE OF CONVEYANCE:

Corrective Assignment to correct the DOCKET NUMBER previously recorded on Reel 038322 Frame 0120. Assignor(s) hereby confirms the CORRECT DOCKET NUMBER IS 030284.10241/147354.

CONVEYING PARTY DATA

Name	Execution Date
SHIMMAN PATEL	03/02/2016
WANSI CHEN	03/02/2016
PETER GAAL	03/03/2016
ALEKSANDER DAMNJANOVIC	03/02/2016
HAO XU	03/02/2016
YONGBIN WEI	03/07/2016
DURGA PRASAD MALLADI	03/02/2016

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:	14856242

CORRESPONDENCE DATA**Fax Number:****Phone:** 2028576000**Email:** PATENTDOCKET@ARENTFOX.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: ARENT FOX LLP**Address Line 1:** 1717 K STREET NW**Address Line 4:** WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	030284.10241/147354
NAME OF SUBMITTER:	DANA OLIVER
Signature:	/Dana Oliver/
Date:	04/25/2016
Total Attachments: 7 source=030284.10241_Request-for-Corrected-Notice-of-Recordation#page1.tif source=030284.10241_Request-for-Corrected-Notice-of-Recordation#page2.tif source=030284.10241_Request-for-Corrected-Notice-of-Recordation#page3.tif source=030284.10241_Request-for-Corrected-Notice-of-Recordation#page4.tif source=030284.10241_Request-for-Corrected-Notice-of-Recordation#page5.tif source=030284.10241_Request-for-Corrected-Notice-of-Recordation#page6.tif source=030284.10241_Request-for-Corrected-Notice-of-Recordation#page7.tif	
RECEIPT INFORMATION EPAS ID: PAT3844228 Receipt Date: 04/25/2016	

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ASSIGNMENT

WHEREAS, WE,

1. Shimmam PATEL, a citizen of United States, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of San Diego, CA,

2. Wanshi CHEN, a citizen of China, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of San Diego, CA,

3. Peter GAAL, a citizen of United States, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of San Diego, CA,

4. Aleksandar DAMNJANOVIC, a citizen of United States, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of San Diego, CA,

5. Hao XU, a citizen of United States, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of San Diego, CA,

6. Yongbin WEI, a citizen of United States, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of San Diego, CA,

7. Durga Prasad MALLADI, a citizen of United States, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of San Diego, CA,

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 ULTRA-LOW LATENCY LTE DOWNLINK FRAME STRUCTURE (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). 14/856,242 filed September 16, 2015, Qualcomm Reference No. 147354, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 62/053,695 filed September 22, 2014, Qualcomm Reference No. 147354P1, (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;

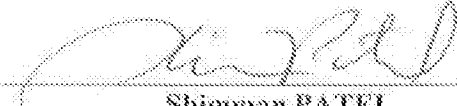
AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date 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, on 3/2/16
LOCATION DATE


Shimmuan PATEL

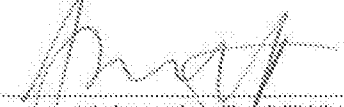
Done at San Diego, on 3/2/16
LOCATION DATE


Wanshi CHEN

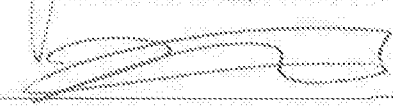
Done at San Diego, on 03/03/2016
LOCATION DATE


Peter GAAL

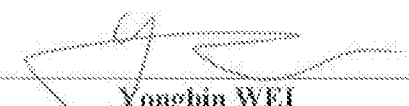
Done at San Diego, on 3/2/16
LOCATION DATE


Aleksandar DAMNJANOVIC

Done at San Diego, on 3/2/2016
LOCATION DATE


Hao XU

Done at San Diego, on 3/2/16
LOCATION DATE


Yongbin WEI

Done at San Diego, on 3/2/16
LOCATION DATE


Durga Prasad MALLADI