

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5970183

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the CORRECTION TO THE 3RD ASSIGNOR FIRST NAME previously recorded on Reel 046700 Frame 0433. Assignor(s) hereby confirms the ASSIGNOR #3 FIRST NAME SHOULD BE SPELLED: SIDDHARTHA.
RESUBMIT DOCUMENT ID:	505666820

CONVEYING PARTY DATA

Name	Execution Date
AHMED KAMEL SADEK	07/23/2018
YISHENG XUE	07/24/2018
SIDDHARTHA MALLIK	07/20/2018
TAMER KADOUS	07/20/2018
XIAOXIA ZHANG	07/20/2018
TAESANG YOO	07/27/2018
MICHAEL MINGXI FAN	08/08/2018
ALEXSANDAR DAMNJANOVIC	07/23/2018
YONGBIN WEI	07/20/2018
JING SUN	07/26/2018

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:	15985048

CORRESPONDENCE DATA

Fax Number:

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.

Email: tamerie.ballance@nortonrosefulbright.com

Correspondent Name: QUALCOMM/NORTON ROSE FULBRIGHT US LLP

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Address Line 2: SUITE 3600

PATENT

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ATTORNEY DOCKET NUMBER: QLXX.P1189US

NAME OF SUBMITTER: THOMAS J. MEANEY

SIGNATURE: /THOMAS J. MEANEY/

DATE SIGNED: 02/19/2020

Total Attachments: 9

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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
AHMED KAMEL SADEK	07/23/2018
YISHENG XUE	07/24/2018
SIDDHARTHA MALLIK <i>SIDDHARTHA</i>	07/20/2018
TAMER KADOUS	07/20/2018
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MICHAEL MINGXI FAN	08/08/2018
ALEKSANDAR DAMNJANOVIC	07/23/2018
YONGBIN WEI	07/20/2018
JING SUN	07/26/2018
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:	15985048
CORRESPONDENCE DATA	
Fax Number: Phone: 214-855-8000 Email: tamerie.ballance@nortonrosefulbright.com <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> Correspondent Name: QUALCOMM /NORTON ROSE FULBRIGHT US LLP Address Line 1: 2200 ROSS AVENUE Address Line 2: SUITE 3600 Address Line 4: DALLAS, TEXAS 75201-7932	
ATTORNEY DOCKET NUMBER:	QLXX.P1189US/1000319042
NAME OF SUBMITTER:	THOMAS J. MEANEY
Signature:	/THOMAS J. MEANEY/
Date:	08/24/2018
Total Attachments: 5 source=P1189ASN#page1.tif source=P1189ASN#page2.tif source=P1189ASN#page3.tif source=P1189ASN#page4.tif source=P1189ASN#page5.tif	
RECEIPT INFORMATION	
EPAS ID:	PAT5109880
Receipt Date:	08/24/2018

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ASSIGNMENT

WHEREAS, WE,

1. **Ahmed Kamel SADEK**, a citizen of the **United States of America**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** and a resident of **San Diego, California**,
2. **Yisheng XUE**, a citizen of the **People's Republic of China**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** and a resident of **San Diego, California**;
3. **Siddhartha MALLIK**, a citizen of **India**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** and a resident of **San Diego, California**;
4. **Tamer KADOUS**, a citizen of the **United States of America**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**, and a resident of **San Diego, California**,
5. **Xiaoxia ZHANG**, a citizen of the **People's Republic of China**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** and a resident of **San Diego, California**,
6. **Taesang YOO**, a citizen of the **Republic of Korea**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** and a resident of **San Diego, California**;
7. **Michael Mingxi FAN**, a citizen of the **United States of America**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** and a resident of **San Diego, California**;
8. **Aleksandar DAMNJANOVIC**, a citizen of the **United States of America**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** and a resident of **Del Mar, California**;
9. **Yongbin WEI**, a citizen of the **United States of America**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** and a resident of **La Jolla, California**;
10. **Jing SUN**, a citizen of the **United States of America**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** 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-SS UNIFIED OPERATION MODE IN COORDINATED AND UNCOORDINATED BANDS** (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). **15/985,048** filed **May 21, 2018** Qualcomm Reference No. **174007** and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **62/510,534**, filed **May 24, 2017**, Qualcomm Reference No. **174007P1**, (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.

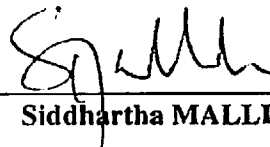
Done at San Diego, on 7-23-18
LOCATION DATE


Ahmed Kamel SADEK

Done at San Diego, on 7-24-18
LOCATION DATE


Yisheng XUE

Done at San Diego, on 07/20/2018
LOCATION DATE


Siddhartha MALLIK

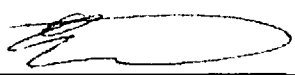
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LOCATION DATE


Tamer KADOUS

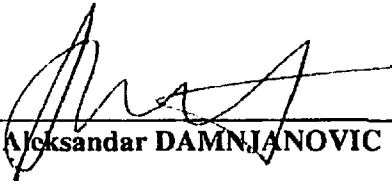
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LOCATION DATE

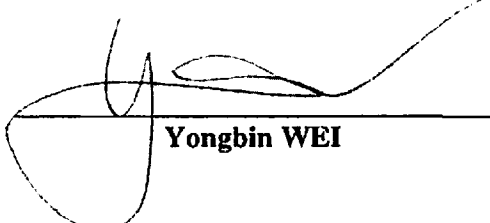

Xiaoxia ZHANG

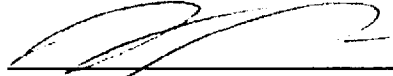
AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at San Diego, on 7/27/18
LOCATION DATE

Taesang YOO

Done at _____, on _____
LOCATION DATE
Michael Mingxi FAN


Done at San Diego, on 7/23/18
LOCATION DATE

Aleksandar DAMNJANOVIC

Done at San Diego, on 7/20/18
LOCATION DATE

Yongbin WEI

Done at San Diego, on 7/26/18
LOCATION DATE

Jing SUN

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 Taesang YOO

Done at San Diego, CA, on 8/8/2018
LOCATION DATE 
Michael Mingxi FAN

Done at _____, on _____
LOCATION DATE Aleksandar DAMNJANOVIC

Done at _____, on _____
LOCATION DATE Yongbin WEI

Done at _____, on _____
LOCATION DATE Jing SUN