

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7243810

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YAN ZHOU	09/24/2020
TAO LUO	09/13/2020
XIAOXIA ZHANG	09/13/2020
KONSTANTINOS DIMOU	11/16/2020
HAMED PEZESHKI	09/08/2020
KAZUKI TAKEDA	09/16/2020
SONY AKKARAKARAN	09/01/2020
SEYED ALI AKBAR FAKOORIAN	09/08/2020
MOSTAFA KHOSHNEVISAN	09/26/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	QUALCOMM INCORPORATED
<b>Street Address:</b>	5775 MOREHOUSE DRIVE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121-1714
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17656360
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)855-8200
<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>	
<b>Phone:</b>	2148558000
<b>Email:</b>	mitzi.booth@nortonrosefulbright.com
<b>Correspondent Name:</b>	R. PALADINO/NORTON ROSE FULBRIGHT US LLP
<b>Address Line 1:</b>	2200 ROSS AVE, SUITE 3600
<b>Address Line 4:</b>	DALLAS, TEXAS 75201-7932
<b>ATTORNEY DOCKET NUMBER:</b>	QLXX.P1339USC1/1001203743
<b>NAME OF SUBMITTER:</b>	ROBERT PALADINO

<b>SIGNATURE:</b>	/ROBERT PALADINO/
<b>DATE SIGNED:</b>	03/24/2022
<b>Total Attachments: 11</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif source=Assignment#page10.tif source=Assignment#page11.tif	

ASSIGNMENT

WHEREAS, WE,

1. **Yan ZHOU**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
2. **Tao LUO**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
3. **Xiaoxia ZHANG**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
4. **Konstantinos DIMOU**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
5. **Hamed PEZESHKI**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
6. **Kazuki TAKEDA**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
7. **Sony AKKARAKARAN**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
8. **Seyed Ali Akbar FAKOORIAN**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
9. **Mostafa KHOSHNEVISAN**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 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 CROSS CARRIER ACTIVATION OF A PERIODIC GRANT (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). **16/908,318**, filed **June 22, 2020**, Qualcomm Reference Number **193724**, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **62/871,122**, filed **July 6, 2019**, Qualcomm Reference Number **193724P1** (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, CA</u> , on <u>09/24/2020</u>	
City, State	Date
	<b>Yan ZHOU</b>
Done at _____, on _____	_____
City, State	Date
	<b>Tao LUO</b>
Done at _____, on _____	_____
City, State	Date
	<b>Xiaoxia ZHANG</b>
Done at _____, on _____	_____
City, State	Date
	<b>Konstantinos DIMOU</b>
Done at _____, on _____	_____
City, State	Date
	<b>Hamed PEZESHKI</b>
Done at _____, on _____	_____
City, State	Date
	<b>Kazuki TAKEDA</b>
Done at _____, on _____	_____
City, State	Date
	<b>Sony AKKARAKARAN</b>
Done at _____, on _____	_____
City, State	Date
	<b>Seyed Ali Akbar FAKOORIAN</b>
Done at _____, on _____	_____
City, State	Date
	<b>Mostafa KHOSHNEVISAN</b>

PATENT

Quilts.com Reference Number 193724  
Page 3 of 3

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 _____, on _____	_____
City, State	Date
Done at <u>San Diego, CA</u> , on <u>09/13/2020</u>	
City, State	Date
Done at _____, on _____	_____
City, State	Date
Done at _____, on _____	_____
City, State	Date
Done at _____, on _____	_____
City, State	Date
Done at _____, on _____	_____
City, State	Date
Done at _____, on _____	_____
City, State	Date
Done at _____, on _____	_____
City, State	Date
Done at _____, on _____	_____
City, State	Date

Yan ZHOU

Tao LÜO

Xiaoxia ZHANG

Konstantinos DIMOU

Hamed PEZESHKI

Kazuki TAKEDA

Sony AKKARAKARAN

Seyed Ali Akbar FAKOORIAN

Mostafa KHOSHNEVISAN

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Yan ZHOU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Tao LEO

Done at San Diego, on 09/13/2020  
City, State Date

  
\_\_\_\_\_  
Xiaoxia ZHANG

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Konstantinos DIMOU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Hamed PEZESHKI

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Kazuki TAKEDA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Sony AKKARAKARAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Seyed Ali Akbar FAKOORIAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Mostafa KHOSHNEVISAN

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 \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Yan ZHOU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Tao LUO

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Xiaoxia ZHANG

Done at Santa Clara, CA, on 2020-11-16  
City, State Date Konstantinos DIMOU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Hamed PEZESHKI

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Kazuki TAKEDA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Sony AKKARAKARAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Seyed Ali Akbar FAKOORIAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Mostafa KHOSHNEVISAN

KD



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;

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Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	<b>Yan ZHOU</b>
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	<b>Tao LUO</b>
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	<b>Xiaoxia ZHANG</b>
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	<b>Konstantinos DIMOU</b>
Done at <u>San Diego, CA</u> , on <u>09/08/2020</u> City, State Date	<i>Hamed Pezeshki</i> <b>Hamed PEZESHKI</b>
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	<b>Kazuki TAKEDA</b>
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	<b>Sony AKKARAKARAN</b>
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	<b>Seyed Ali Akbar FAKOORIAN</b>
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	<b>Mostafa KHOSHNEVISAN</b>

**PATENT**

Qualcomm Reference Number 193724  
Page 3 of 3

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Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	Yan ZHOU
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	Tao LUO
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	Xiaoxia ZHANG
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	Konstantinos DIMOU
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	Hamed PEZESHKI
Done at <u>Tokyo</u> , on <u>Sept 16, 2020</u> City, State Date	<u>[Signature]</u> Kazuki TAKEDA
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	Sony AKKARAKARAN
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	Seyed Ali Akbar FAKOORIAN
Done at _____, on _____ City, State Date	_____
Done at _____, on _____ City, State Date	Mostafa KHOSHNEVISAN

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

Done at _____, on _____ City, State Date	_____ <b>Yan ZHOU</b>
Done at _____, on _____ City, State Date	_____ <b>Tao LUO</b>
Done at _____, on _____ City, State Date	_____ <b>Xiaoxia ZHANG</b>
Done at _____, on _____ City, State Date	_____ <b>Konstantinos DIMOU</b>
Done at _____, on _____ City, State Date	_____ <b>Hamed PEZESHKI</b>
Done at _____, on _____ City, State Date	_____ <b>Kazuki TAKEDA</b>
Done at <u>Poway, CA</u> , on <u>9/1/2020</u> City, State Date	 _____ <b>Sony AKKARAKARAN</b>
Done at _____, on _____ City, State Date	_____ <b>Seyed Ali Akbar FAKOORIAN</b>
Done at _____, on _____ City, State Date	_____ <b>Mostafa KHOSHNEVISAN</b>

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;

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Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Yan ZHOU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Tao LUO

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Xiaoxia ZHANG

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Konstantinos DIMOU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Hamed PEZESHKI

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Kazuki TAKEDA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Sony AKKARAKARAN

Done at San Diego, CA, on Sep 8<sup>th</sup>, 2020  
City, State Date ali fakoorian  
Seyed Ali Akbar FAKOORIAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Mostafa KHOSHNEVISAN

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;

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Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Yan ZHOU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Tao LUO

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Xiaoxia ZHANG

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Konstantinos DIMOU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Hamed PEZESHKI

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Kazuki TAKEDA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Sony AKKARAKARAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Seyed Ali Akbar FAKOORIAN

Done at San Diego, CA, on 9/24/20  
City, State Date Mostafa KHOSHNEVISAN