

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6687108

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
IYAB ISSAM SAKHNINI	04/21/2021
TAO LUO	04/10/2021
QIANG WU	04/15/2021
JUN MA	04/27/2021
XIAOXIA ZHANG	04/08/2021
JING SUN	04/08/2021
JUAN MONTOJO	04/11/2021
PETER GAAL	04/08/2021
MEHMET IZZET GURELLI	04/09/2021
AHMED ABDELAZIZ IBRAHIM ABDELAZIZ ZEWAİL	04/08/2021
<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:	17225916
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	713-623-4844
<b>Email:</b>	psdocketing@pattersonsheridan.com,sdominguez@pattersonsheridan.com
<b>Correspondent Name:</b>	PATTERSON + SHERIDAN, LLP
<b>Address Line 1:</b>	24 GREENWAY PLAZA
<b>Address Line 2:</b>	SUITE 1600
<b>Address Line 4:</b>	HOUSTON, TEXAS 77046
<b>ATTORNEY DOCKET NUMBER:</b>	203526US

PATENT

<b>NAME OF SUBMITTER:</b>	STEPHANIE DOMINGUEZ
<b>SIGNATURE:</b>	/STEPHANIE DOMINGUEZ/
<b>DATE SIGNED:</b>	04/30/2021
<b>Total Attachments: 12</b> source=203526_Assignment#page1.tif source=203526_Assignment#page2.tif source=203526_Assignment#page3.tif source=203526_Assignment#page4.tif source=203526_Assignment#page5.tif source=203526_Assignment#page6.tif source=203526_Assignment#page7.tif source=203526_Assignment#page8.tif source=203526_Assignment#page9.tif source=203526_Assignment#page10.tif source=203526_Assignment#page11.tif source=203526_Assignment#page12.tif	

**ASSIGNMENT**

WHEREAS, WE,

1. **Iyab Issam SAKHNINI**, 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. **Qiang WU**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
4. **Jun MA**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
5. **Xiaoxia ZHANG**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
6. **Jing SUN**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
7. **Juan MONTOJO**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
8. **Peter GAAL**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
9. **Mehmet Izzet GURELLI**, having a mailing address located at 5775 Morehouse Drive; San Diego, California 92121-1714,
10. **Ahmed Abdelaziz Ibrahim Abdelaziz ZEWAIL**, 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 **REUSING PDSCH TCI AND QCL FOR DYNAMIC CORESETS** (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. **17/225,916**, filed **April 8, 2021**, Qualcomm Reference No. **203526**, and all provisional applications relating thereto, together with U.S. Provisional Application No. **63/008,336**, filed **April 10, 2020**, Qualcomm Reference No. **203526P1**, (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, CA , on 21 APRIL 2021   
CITY, STATE DATE Iyab Issam SAKHNINI

Done at \_\_\_\_\_ , on \_\_\_\_\_  
CITY, STATE DATE Tao LUO

Done at \_\_\_\_\_ , on \_\_\_\_\_  
CITY, STATE DATE Qiang WU


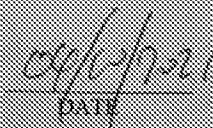
Done at \_\_\_\_\_ , on \_\_\_\_\_  
CITY, STATE DATE Jun MA

Done at \_\_\_\_\_ , on \_\_\_\_\_  
CITY, STATE DATE Xiaoxia ZHANG

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 Iyab Issam SAKHINI

Done at , on   
CITY, STATE DATE Fan LUO

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Qiang WU

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Jun MA

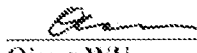
Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Xiaoxia ZHANG

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Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Iyab Issam SAKHNINI

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Tao LUO

Done at San Diego, CA, on 4/15/2021  
CITY, STATE DATE   
Qiang WU

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Jun MA

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Xiaoxia ZHANG

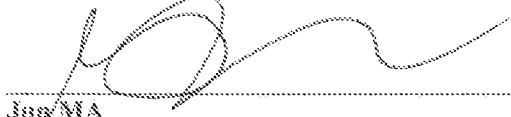
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Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Iyab Issam SAKHNINI

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Tao LUO

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Qiang WU

Done at San Diego, CA, on 04/27/21  
CITY, STATE DATE   
Jun MA

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Xiaoxia ZHANG



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 Iyab Issam SAKHNINI

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Tao LUO

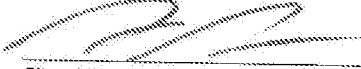
Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Qiang WU

Done at \_\_\_\_\_, on \_\_\_\_\_  
CITY, STATE DATE Jun MA

Done at San Diego, on 04/08/2021  
CITY, STATE DATE Xiaoxia ZHANG

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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 San Diego, CA, on 4/17/01   
City, State Date Jing SUN

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

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Mehmet Izzet GURELLI

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Ahmed Abdelaziz Ibrahim Abdelaziz ZEWAIL

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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 Jing SUN

Done at San Diego, CA, on 4/11/21  
City, State Date   
Juan MONTOJO

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Mehmet Izzet GURELLI

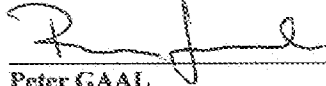
Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Ahmed Abdelaziz Ibrahim Abdelaziz ZEWAİL

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City, State Date Jing SUN

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

Done at San Diego, CA, on 04/08/2021  
City, State Date   
Peter GAAL

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Mehmet Izzet GURELLI

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City, State Date Ahmed Abdelaziz Ibrahim Abdelaziz ZEWAIL

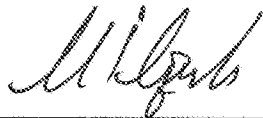
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Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Jing SUN

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

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

Done at San Diego, CA, USA, on 4/9/2021  
City, State Date   
Mehmet Izzet GURELLI

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Ahmed Abdelaziz Ibrahim Abdelaziz ZEWAİL

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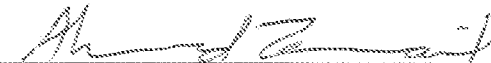
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Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Peter GAAL

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Mehmet Izzet GURELLI

Done at San Diego, CA, on 4/8/2021  
City, State Date   
Ahmed Abdelaziz Ibrahim Abdelaziz ZEWAIL