# 506781374 07/22/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6828191

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MASOUD MOSLEHI BAJESTAN	06/30/2021
MARCO ZANUSO	07/22/2021
RAZAK HOSSAIN	07/12/2021
HASNAIN LAKDAWALA	07/06/2021

### **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:	17357478		

# **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:** jared@colbynipper.com

Correspondent Name: QUALCOMM INCORPORATED Address Line 1: 5775 MOREHOUSE DRIVE

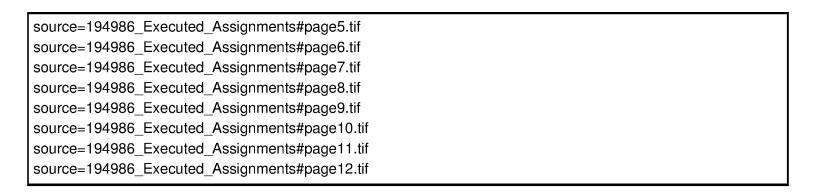
Address Line 4: SAN DIEGO, CALIFORNIA 92121-1714

ATTORNEY DOCKET NUMBER:	194986
NAME OF SUBMITTER: KEITH W. SAUNDERS, REG#41,462	
SIGNATURE:	/Keith W. Saunders/
DATE SIGNED:	07/22/2021

**Total Attachments: 12** 

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PATENT 506781374 REEL: 056953 FRAME: 0090



WHEREAS, WE,

- Masood MOSLEIII BAJESTAN, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- Marco ZANUSO, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- Razak HOSSAIN, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 4. Hasnain LAKDAWALA, 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 CALIBRATION OF SAMPLING-BASED MULTIPLYING DELAY-LOCKED LOOP (MDLL) (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). 17/357.478 filed June 24, 2021, Qualcomm Reference Number 194986, and all provisional applications relating thereto, together with U.S Provisional Application No(s). 63/046,679, filed June 30, 2020, Qualcomm Reference Number 194986P1, (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 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, 18A on 6/3 of 2021 Masoud Mosleh Bejestan
City, State, Country Date Masoud MOSLEHI BAJESTAN

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, Country	Date	Marco ZANUSO	
Done at	City, State, Country	OB	Razak HOSSAIN	•••••••••••••••••••••••••••••••••••••••
Done at	City Siste Country	im	Husnain LAKDAWALA	

#### WHEREAS, WE.

- 1. Masoud MOSLEHI BAJESTAN, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- Marco ZANUSO, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
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- Hasnain LAKDAWALA, 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 CALIBRATION OF SAMPLING-BASED MULTIPLYING DELAY-LOCKED LOOP (MDLL) (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). 17/357,478 filed June 24, 2021. Qualcomm Reference Number 194986, and all provisional applications relating thereto, together with U.S Provisional Application No(s). 63/046,679, filed June 30, 2020. Qualcomm Reference Number 194986P1, (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		on	
	City, State, Country	Date	Masoud MOSLEHI BAJESTAN

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

Done at	SenDiago, CA, US on 3	1/22/2021	H22/202 Maddur
	City, State, Country	Date	Marco ZANUSO
Done at	***************************************		·····
	City, State, Country	Date	Razak HOSSAIN
Done at	, on		
The second second	City State Country	Date	Hasnain LAKDAWALA

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- 3. Razak HOSSAIN, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 4. Hasnain LAKDAWALA, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,

Salaya Paraton and Salaya na baran na maratan makamin na kalaya na alawa na kalaya na maratan kasa Salaya na S

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 CALIBRATION OF SAMPLING-BASED MULTIPLYING DELAY-LOCKED LOOP (MDLL) (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). 17/357,478 filed June 24, 2021, Qualcomm Reference Number 194986, and all provisional applications relating thereto, together with U.S Provisional Application No(s). 63/046,679, filed June 30, 2020, Qualcomm Reference Number 194986P1, (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;

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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, Country	Date	Masoud MOSLEHI BAJESTAN

PATENT
Qualcomm Reference Number: 194986
Page 3 of 3

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Done at		. on			
· · · · ·	City, State, Country	, <u>.</u>	Date	Marco ZANUSO	
SA CA Done at	N DIEGO ALIFORNIA USA City, State, Country	, on _	07/12/2021 Date	Razak Hossan Razak HOSSAIN	'n
Done at	City, State, Country	, on _	 Date	Hasnain LAKDAWALA	

WHEREAS, WE,

- 1. Masoud MOSLEHI BAJESTAN, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 2. Marco ZANUSO, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
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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.

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	City, State, Country	Date	Masoud MOSLEHI BAJESTAN

PATENT

Qualcomm Reference Number: 194986

Page 3 of 3

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Done at	, on	,	
-	City, State, Country	Date	Marco ZANUSO
Done at	, on		
	City, State, Country	Date	Razak HOSSAIN
Dana si	<u>San Diyo</u> , on_	07/06/221	Had lever It
LIGHE at	City, State Country	Date	Hashani LAKDAWALA
	Ch, USA		V

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