504797088 02/28/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4843820

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RALPH AKRAM GHOLMIEH	01/08/2018
SIVARAMAKRISHNA VEEREPALLI	02/22/2018
MIN WANG	01/29/2018
SUSHEEL KUMAR YADAV YADAGIRI	01/09/2018
VARUN TUTPETKESHAVAMURTHY	01/09/2018
SANJAY VISHIN	02/05/2018

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:	15810042	

CORRESPONDENCE DATA

Fax Number: (703)391-2901

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.

Phone: 7033912900

Email: ptonoticesqc@marburylaw.com

THE MARBURY LAW GROUP, PLLC **Correspondent Name:** 11800 SUNRISE VALLEY DRIVE Address Line 1:

Address Line 2: 15TH FLOOR

Address Line 4: RESTON, VIRGINIA 20191

ATTORNEY DOCKET NUMBER:	170730 / 1376-2114
NAME OF SUBMITTER:	WHITNEY TEETS
SIGNATURE:	/Whitney TEETS/
DATE SIGNED:	02/28/2018

Total Attachments: 18 source=170730 Assignment AsFiled February28 2018#page1.tif source=170730 Assignment AsFiled February28 2018#page2.tif source=170730 Assignment AsFiled February28 2018#page3.tif source=170730 Assignment AsFiled February28 2018#page4.tif source=170730 Assignment AsFiled February28 2018#page5.tif source=170730 Assignment AsFiled February28 2018#page6.tif source=170730 Assignment AsFiled February28 2018#page7.tif source=170730_Assignment_AsFiled_February28_2018#page8.tif source=170730 Assignment AsFiled February28 2018#page9.tif source=170730 Assignment AsFiled February28 2018#page10.tif source=170730_Assignment_AsFiled_February28_2018#page11.tif source=170730 Assignment AsFiled February28 2018#page12.tif source=170730_Assignment_AsFiled_February28 2018#page13.tif source=170730 Assignment AsFiled February28 2018#page14.tif source=170730_Assignment_AsFiled_February28_2018#page15.tif source=170730 Assignment AsFiled February28 2018#page16.tif source=170730 Assignment AsFiled February28 2018#page17.tif source=170730 Assignment AsFiled February28 2018#page18.tif

WHEREAS, WE,

- 1. Ralph Akram GHOLMIEH, 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, CA;
- 2. Sivaramakrishna VEEREPALLI, 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, CA;
- 3. Min WANG, 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, CA;
- 4. Susheel Kumar Yadav YADAGIRI, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714; and a resident of San Diego, CA;
- 5. Varun TUTPETKESHAVAMURTHY, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714; and a resident of San Diego, CA; and
- 6. Sanjay VISHIN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714; and a resident of Sunnyvale, 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 MULTI-MODEM SCHEDULER FOR MULTIMEDIA STREAMS (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). 15/810,042 filed November 11, 2017, Qualcomm Reference

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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;

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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;

	ND WE HEREBY or conflicting with the		will not execute any writing or do any act
		n <u>////2//</u> DATE	Ralph Alst am CHOLMIEH
Done at	LOCATION , 0	n DATE	Sivaramakrishna VEEREPALLI
Done at	LOCATION	nDATE	Min WANG
Done at _	, o LOCATION	n	Susheel Kumar Yaday YADAGIRI
Done at _	LOCATION , 0	n	Varun TUTPETKESHAVAMURTHY
Done at	LOCATION	n	Sanjay VISHIN

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	LOCATION	DATE	Ralph Akram GHOLMIEH
Done at	Can Diene , o	n 2 2 2 2 1 8	Sivaramākrishna VEEREPALLI
	LOCATION	DATE	Sivaramäkrishna VEEREPALLI
Done at	•0	n	
	LOCATION	DATE	Min WANG
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Done at _	LOCATION	DATE	Susheel Kumar Yadav YADAGIRI
Done at	LOCATION	DATE	Varun TUTPETKESHAVAMURTHY
Done at _	,0	B	Sanjay VISHIN
	LULATION	DAIL	CHIRCLY VEHING

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Done at		, on		
	LOCATION		DATE	Ralph Akram GHOLMIEH
Done at		, on		
	LOCATION		DATE	Sivaramakrishna VEEREPALLI
Done at	300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	, on	01/29/2018	
	LOCATION	7.	DATE	Min WANG
Done at	LOCATION	, on	DATE	Susheel Kumar Yadav YADAGIRI
Done at	LOCATION	, on	DATE	Varun TUTPETKESHAVAMURTHY
Done at	LOCATION	, ent	DATE	Sanjay VISHIN

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Done at		, on	
**************************************	LOCATION	DATE	Ralph Akram GHOLMIEH
Done at _	LOCATION	, on	Sivaramakrishna VEEREPALLI
Done at	LOCATION	, on	Min WANG
Done at	CAM DIRECTOR	on 01 09 2018 DATE	Sushqol Kumar Yadav YADAGIRI
Done at	LOCATION	, onDATE	Varun TUTPETKESHAVAMURTHY
Done at	LOCATION	on	Sanjay VISHIN

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Done at		, on		·
	LOCATION		DATE	Ralph Akram GHOLMIEH
Done at _		on		Sivaramakrishna VEEREPALLI
	LOCATION		DATE	Sivaramakrishna VEEKEPALLI
Done at _		, on		Min WANG
	LOCATION		DATE	Win WARG
Done at_		, on		Susheel Kumar Yadav YADAGIRI
	LOCATION		DATE	Susheel Kumar Yadav YADAGIKI
Done at	SAN TOIE40	, on	-9-2018	Varun TUTPETKESHAVAMURTHY
	LOCATION		DATE	Varun TUTPETKESHAVAMURTHY
Done at_		, on		Sanjay VISHIN
	LOCATION		DATE	Saniav VISHIN

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- 6. Sanjay VISHIN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714; and a resident of Sunnyvale, 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 MULTI-MODEM SCHEDULER FOR MULTIMEDIA STREAMS (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 soid, 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). 15/810,042 filed November 11, 2017, Qualcomm Reference

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;

Done at		, on	
~	LOCATION	DATE	Ralph Akram GHOLMIEH
Done at_		s On	Sivaramakrishna VEEREPALLI
	LOCATION	DATE	Sivaramakrishna VEEKEPALLI
Done at		3 on	Min WANG
	LOCATION	DATE	Min WANG
Done at		s on	Susheel Kumar Yadav YADAGIRI
	LOCATION	DATE	Susheel Kumar Yadav YADAGIKI
Done at		,, on	
			Varun TUTPETKESHAVAMURTHY
Dana at	San Tose	on 2-5-2018	Sanjay VISHIN
wow as	LOCATION	DATE	Sanjay VISHIN

PATENT REEL: 045060 FRAME: 0736

RECORDED: 02/28/2018