503825522 05/13/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT3872172

CONVEYING PARTY DATA

Name	Execution Date
VENKATRAMAN S. ATTI	03/31/2016
VENKATA SUBRAHMANYAM CHANDRA SEKHAR CHEBIYYAM	05/11/2016
VIVEK RAJENDRAN	04/01/2016
SUBASINGHA SHAMINDA SUBASINGHA	05/10/2016

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:	15083867

CORRESPONDENCE DATA

Fax Number: (512)327-5575

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: 5123275515

Email:jsmith@tlgiplaw.comCorrespondent Name:TOLER LAW GROUP, PCAddress Line 1:8500 BLUFFSTONE COVE

Address Line 2: SUITE A201

Address Line 4: AUSTIN, TEXAS 78759

ATTORNEY DOCKET NUMBER:	152235
NAME OF SUBMITTER:	JASON D. SMITH
SIGNATURE:	/Jason D. Smith/
DATE SIGNED:	05/13/2016

Total Attachments: 12

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PATENT 503825522 REEL: 038583 FRAME: 0637



WHEREAS, WE,

- 1. **Venkatraman S. ATTI,** 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,
- 2. **Venkata Subrahmanyam Chandra Sekhar CHEBIYYAM**, 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,
- 3. **Vivek RAJENDRAN,** 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,
- 4. **Subasingha Shaminda SUBASINGHA**, a citizen of Sri Lanka, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, 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 **ENCODER SELECTION** (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). 15/083,867 filed March 29, 2016, Qualcomm Reference No. 152235, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 62/143,155, filed April 5, 2015, Qualcomm Reference No. 152235P1, (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 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.

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	LOCATION	DATE	Venkatraman S. ATTI
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	LOCATION	DATE	Venkata Subrahmanyam Chandra Sekhar CHEBIYYAM
Done at _	, Or		
	LOCATION	DATE	Vivek RAJENDRAN
Done at _	, or	1	
	LOCATION	DATE	Subasingha Shaminda SUBASINGHA

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	ND WE HEREBY er conflicting with t		vill not execute any writing or do any act
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Done at	JAN DIEGO , (LOCATION	on Sati	Venkata Subrahmanyam Chandra Sekhar CHEBIYYAM
Done at	LOCATION , '	DATE	Vivek RAJENDRAN
Done at	LOCATION	DATE	Subasingha Shaminda SUBASINGHA

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	LOCATION	DATE	Vivek RAJENDRAN
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some at	LOCATION	DATE	Subasingha Shaminda SUBASINGHA

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PATENT QUALCOMM Ref. No. 152235 Page 3 of 3

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4.00	COCATION	DATE	Subasingha Shaminda SUBASINGH

PATENT REEL: 038583 FRAME: 0650

RECORDED: 05/13/2016