# 506811190 08/10/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6858009

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
LAE-HOON KIM	07/31/2021
SHANKAR THAGADUR SHIVAPPA	08/01/2021
S M AKRAMUS SALEHIN	08/03/2021
SHUHUA ZHANG	08/02/2021
ERIK VISSER	08/09/2021

#### RECEIVING PARTY DATA

Name:	QUALCOMM Incorporated	
Street Address:	5775 Morehouse Drive	
Internal Address:	Patent Department/Central Administration	
City:	San Diego	
State/Country:	CALIFORNIA	
Postal Code:	92121	

## **PROPERTY NUMBERS Total: 3**

Property Type	Number
Application Number:	17210357
Application Number:	62994158
Application Number:	62994147

#### **CORRESPONDENCE DATA**

**Fax Number:** (858)658-2502

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:** 858-845-4265

Email:us-docketing@qualcomm.comCorrespondent Name:QUALCOMM INCORPORATED

Address Line 1: 5775 MOREHOUSE DR.

Address Line 4: SAN DIEGO, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER:	193864
NAME OF SUBMITTER:	JOSEPH SALAZAR
SIGNATURE:	/JOSEPH SALAZAR/

PATENT REEL: 057138 FRAME: 0837

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DATE SIGNED:	08/10/2021
Total Attachments: 7	
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## **ASSIGNMENT**

WHEREAS, WE,

- 1. Lae-Hoon KIM, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 2. Shankar THAGADUR SHIVAPPA, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 3. S M Akramus SALEHIN, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 4. Shuhua ZHANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 5. Erik VISSER, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.

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 **TRANSFORM AMBISONIC COEFFICIENTS USING AN ADAPTIVE NETWORK** (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). 17/210,357, filed March 23, 2021, Qualcomm Reference Number 193864 and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 62/994,158, filed March 24, 2020, Qualcomm Reference Number 193862P1, together with U.S. Provisional Application No(s). 62/994,147, filed March 24, 2020, Qualcomm Reference Number 193864P1, (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;

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-	City, State	Date	Lac-Hoon KIM
Done at _		Date:	Shankar THAGADUR SHIVAPPA
Done at _	City, State	On	S M Akramus SALEHIN
Done at _	City, State	Date	Shuhua ZHANG
Done at _	City, State	, on	Erik VISSER

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	City, State	Date	S M Akramus SALEHIN
Done at _	San Diego, CA	_, on <u>08/02/2021</u>	<u></u>
	City, State	Date	Shuhua ZHANG
Done at _		_, on	
	City. State	Date	Erik VISSER

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	City, State		Date	Shuhua ZHANG
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PATENT REEL: 057138 FRAME: 0845

**RECORDED: 08/10/2021**