505930975 02/24/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5977693

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LAE-HOON KIM	01/15/2020
DONGMEI WANG	02/24/2020
CHENG-YU HUNG	01/28/2020
ERIK VISSER	01/15/2020

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:	16685987

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.

Phone: 512-200-9737

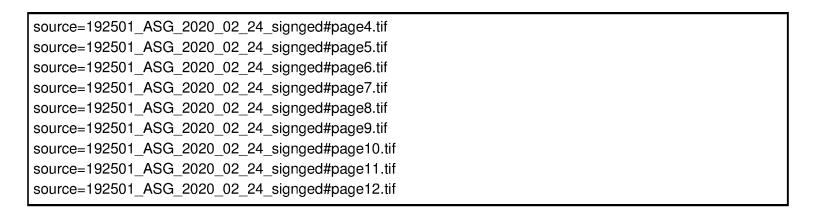
npasarya@mooreiplaw.com Email: **Correspondent Name:** MOORE IP/QUALCOMM Address Line 1: 13359 N HWY 183, #406-243

Address Line 4: AUSTIN, TEXAS 78750

ATTORNEY DOCKET NUMBER:	192501
NAME OF SUBMITTER:	NISHI PASARYA
SIGNATURE:	/Nishi Pasarya/
DATE SIGNED:	02/24/2020

Total Attachments: 12

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WHEREAS, WE,

- Lac-Hoon KIM, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- Dongmei WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
- Cheng-Yu HUNG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
- 4. 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 LINEARIZATION OF NON-LINEARLY TRANSFORMED SIGNALS (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). 16/685.987 filed November 15, 2019, Qualcomm Reference Number 192501, and all provisional applications relating thereto, (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;

PATENT

Qualcomm Reference Number: 192501 Page 3 of 3

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

Done at <u>{</u>	San Deso CA City, State	on <u>i / 85/2020</u> Date	<u>Loc-Hoon Kim</u> Lac-Hoon KIM	
Done at	City, State	, on	Dongmei WANG	
Done at	***************************************	200		
rvane ur	City, State	, on Date	Cheng-Yu HUNG	***************************************
Done at	City, State	, on	Erik VISSER	***************************************

WHEREAS, WE,

- 1. Lae-Hoon KIM, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 2. **Dongmei WANG**, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
- 3. Cheng-Yu HUNG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121,
- 4. 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 **LINEARIZATION OF NON-LINEARLY TRANSFORMED SIGNALS** (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). 16/685,987 filed November 15, 2019, Qualcomm Reference Number 192501, and all provisional applications relating thereto, (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;

PATENT

Qualcomm Reference Number: 192501

Page 3 of 3

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	Lae-Hoon KIM	
Done at	San Diego G	on 02/24/202°	Dona	
	City, Stafe	Date	Dongmei WANG	
Done at _		, on		
	City, State	Date	Cheng-Yu HUNG	
Done at _		, on		
	City, State	Date	Erik VISSER	

WHEREAS, WE,

- Lae-Hoon KIM, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
- 2. Dongmei WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
- Cheng-Yu HUNG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
- Erik VISSER, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.

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Done at		, on	
	City, State	Date	Lae-Hoon KIM
Done at _		, on	
	City, State	Date	Dongmei WANG
	Ou San râ		Olivera-Til Hange
Done at _		, on	
	City, State	Date	Cheng-Yu HUNG
nens Pullius Londo		days o	
Done at_	27	, on	20 14 20 0000 0000
	City, State	Date	Erik VISSER

WHEREAS, WE,

- Lae-Hoon KIM, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
- 2. Dongmei WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
- Cheng-Yu HUNG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121.
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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;

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PATENT
Qualcomm Reference Number: 192501
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Done at		on		
	City, State	Date	Lac-Hoon KIM	
Done at_		on		
	City, State	Date	Dongmei WANG	****
Done at		on		
	City, State	Date	Cheng-Yu HUNG	77.00
maria da A	ÂN DECO,	Wet Sees	152	
Done at 💩		on		2222
	City, State	Date	Erîk VISSFR	

PATENT REEL: 052002 FRAME: 0189

RECORDED: 02/24/2020