506573293 03/24/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6620072

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KARTHIK VENKATRAM	02/03/2021
ANSAH AHMED SHEIK	02/14/2021
DANIEL AMERGA	12/03/2020
SHANSHAN WANG	12/01/2020
ARVIND VARDARAJAN SANTHANAM	11/20/2020
OZCAN OZTURK	11/21/2020
MASATO KITAZOE	01/04/2021

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:	16929410

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

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

Address Line 2: 15TH FLOOR

Address Line 4: RESTON, VIRGINIA 20191

ATTORNEY DOCKET NUMBER:	193759 / 1376-2310
NAME OF SUBMITTER:	LINDA KENAH
SIGNATURE:	/Linda Kenah/
DATE SIGNED:	03/24/2021

506573293 REEL: 055709 FRAME: 0152

Total Attachments: 21 source=193759 Assignment Filed March24 2021#page1.tif source=193759 Assignment Filed March24 2021#page2.tif source=193759 Assignment Filed March24 2021#page3.tif source=193759 Assignment Filed March24 2021#page4.tif source=193759 Assignment Filed March24 2021#page5.tif source=193759 Assignment Filed March24 2021#page6.tif source=193759 Assignment Filed March24 2021#page7.tif source=193759_Assignment_Filed_March24_2021#page8.tif source=193759 Assignment Filed March24 2021#page9.tif source=193759 Assignment Filed March24 2021#page10.tif source=193759 Assignment Filed March24 2021#page11.tif source=193759_Assignment_Filed_March24_2021#page12.tif source=193759 Assignment Filed March24 2021#page13.tif source=193759_Assignment_Filed_March24_2021#page14.tif source=193759_Assignment_Filed_March24_2021#page15.tif source=193759 Assignment Filed March24 2021#page16.tif source=193759 Assignment Filed March24 2021#page17.tif source=193759 Assignment Filed March24 2021#page18.tif source=193759 Assignment Filed March24 2021#page19.tif source=193759 Assignment Filed March24 2021#page20.tif source=193759 Assignment Filed March24 2021#page21.tif

WHEREAS, WE,

- 1. Karthik VENKATRAM, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 2. Ansah Ahmed SHEIK, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 3. Daniel AMERGA, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 4. Shanshan WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 5. Arvind Vardarajan SANTHANAM, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 6. Ozcan OZTURK, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714; and
- 7. Masato KITAZOE, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 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 **MANAGING WIRELESS DEVICE COMMUNICATION WITH A BASE STATION** (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

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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;

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 5	City, State	on 02	03/2021	Cank.V
	City, State		Date	Karthik VENKATRAM
Done at _	City, State	_, on	Date	Ansah Ahmed SHEIK
				Ansan Anned SHEIK
Done at	City, State	_, on	Date	Daniel AMERGA
Done at _	City, State	_, on	Date	Shanshan WANG
Done at _	City, State	_, on	Date	Arvind Vardarajan SANTHANAM
Done at _	City, State	, on	Date	Ozcan OZTURK
Done at _	City, State	_, on	Date	Masato KITAZOE

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Qualcomm Reference Number: 193759

Page 3 of 3

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Done at		, on		***************************************
and the second s	City, State		Date	Karthik VENKATRAM
Done at 149	DERABAÇINDIA City, State	_, on	14/02/2021 Date	514. Aryah Shmed Ansah Ahmed SHEIK
Done at	City, State	_, on	Date	Daniel AMERGA
Done at	City, State	_, on	Date	Shanshan WANG
Done at	City, State	_, on	Date	Arvind Vardarajan SANTHANAM
Done at	City, State	_, on	Date	Ozean OZTURK
Done at	City State	, on	Date	Masato KITAZOE

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PATENT

Qualcomm Reference Number: 193759 Page 3 of 3

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Done at	, 08		
•	City, State	Date	Karthik VENKATRAM
Done at	, on		A C O O SEPTIVE.
	City, State	Date	Ansah Ahmed SHEIK
Oone at <u></u>	an Dieso A, on 12	<u>lo3 (2020</u>	Daniel AMERGA
	ony, ame	SPACE	278151 (21813)
Done at	, on City, State		
	City, State	Date	Shanshan WANG
Done at _	, on		
	City, State	Date	Arvind Vardarajan SANTHANAM
Mana at	A. 10		
Done at	, on City, State	Date	Ozcan OZTURK
Done at	City. State		
	City, State	Date	Masato KITAZOE

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Done at	, on		
	City, State	Date	Karthik VENKATRAM
Done at _	, on City, State	Date	Ansah Abmed SHEIK
	City, State	Daile	/*************************************
Done at _	City, State	Date	Daniel AMERGA
			Α ,
Done at 🎣	City, State	<u>// 1 / 2 ¢ 2 ¢</u> Date	Shanshan WANG
Done at _	City, State	Date	Arvind Vardarajan SANTHANAM
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Done at _	, on		0.0771917
	City, State	Date	Ozcan OZTURK
Done at _	, on		
	City, State	Date	Masato KITAZOE

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·	City, State		Date	Karthik VENKATRAM
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·	City, State		Date	Ansah Ahmed SHEIK
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	City, State		Date	Daniel AMERGA
Done at _	City, State	, on		578 X Y874 XXY
E.	City, State SAN Di Fasi)	Date	Shanshan WANG
None at	ÜSA	,on $1/2$	1/2020	Arvind Vardarajan SANTHANAM
	City, State		Date	Arvind Vardarajan SANTHANAM
Done at _	City, State	, on		Ozcan OZTURK
	City, State		Date	Ozcan OZTUKK
Done at _	*****	, on		
	City, State		Date	Masato KITAZOE

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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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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		Date	Karthik VENKATRAM
Done at		, on	Date	
	City, State		Date	Ansah Ahmed SHEIK
Done at		, on		
	City, State		Date	Daniel AMERGA
Done at		, on	Date	
	City, State		Date	Shanshan WANG
Done at		_, on	Date	
	City, State		Date	Arvind Vardarajan SANTHANAM
ے Done at	an Diego, (A Jon	11/21/2020 Date	John
	City, State		Date	Ozcan OZTURK
Done at		_, on	Date	
	City, State		Date	Macata KITA 70F

WHEREAS, WE,

- 1. Karthik VENKATRAM, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 2. Ansah Ahmed SHEIK, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 3. Daniel AMERGA, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 4. Shanshan WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 5. Arvind Vardarajan SANTHANAM, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714;
- 6. Ozcan OZTURK, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714; and
- 7. Masato KITAZOE, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 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 **MANAGING WIRELESS DEVICE COMMUNICATION WITH A BASE STATION** (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.

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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;

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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;

PATENT

Qualcomm Reference Number: 193759

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	Karthik VENKATRAM
Done at	, on		
	City, State	Date	Ansah Ahmed SHEIK
	igi		
Done at	, on City, State		Daniel AMERGA
	City, State	Date	Daniel AMERGA
Done at	, on		X <u>. (</u>
	City, State	Date	Shanshan WANG
Done at	, on		
	City, State	Date	Arvind Vardarajan SANTHANAM
Done at	∴ on		
	City, State	Date	Ozcan OZTURK
Done at	Tatva	Ганковы 4 эсэ /	
come at	Tokyo, on City, State	Date	Masato KITAZOE

PATENT REEL: 055709 FRAME: 0174

RECORDED: 03/24/2021