

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6517636

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the SPELLING OF ASSIGNOR, SIVARAMAKRISHNA VEEREPALLI'S, NAME WHICH WAS PREVIOUSLY LISTED AS "SIYARAMAKRISHNA VEEREPALLI" previously recorded on Reel 049471 Frame 0957. Assignor(s) hereby confirms the CORRECT SPELLING OF THE ASSIGNOR'S NAME IS SIVARAMAKRISHNA VEEREPALLI.

CONVEYING PARTY DATA

Name	Execution Date
HOON KI LEE	08/19/2016
AZIZ GHOLMIEH	06/21/2016
SIVARAMAKRISHNA VEEREPALLI	06/01/2016
ARNAUD MEYLAN	05/20/2016
DEEPAK DHAMDHERE	06/13/2016
MAHESH KUMAR KALIKOT VEETIL	07/07/2016
UMANG SURESHBHAI PATEL	05/31/2016

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:	16432603

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.

Email: patentdocket@arentfox.com, brianna.nesmith@arentfox.com

Correspondent Name: ARENT FOX LLP

Address Line 1: 1717 K STREET, NW

Address Line 4: WASHINGTON, D.C. 20006-5344

ATTORNEY DOCKET NUMBER: 030284.17314/153586D1C1

NAME OF SUBMITTER: BRIANNA NESMITH

SIGNATURE:	/Brianna Nesmith/
DATE SIGNED:	01/27/2021
Total Attachments: 12 source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page1.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page2.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page3.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page4.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page5.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page6.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page7.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page8.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page9.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page10.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page11.tif source=153586D1C1_Corrective_Assignment_asfiled_Jan_27_2021#page12.tif	



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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HOON KI LEE	08/19/2016
AZIZ GHOLMIEH	06/21/2016
SIYARAMAKRISHNA VEEREPALLI SIVARAMAKRISHNA	06/01/2016
ARNAUD MEYLAN	05/20/2016
DEEPAK DHAMDHERE	06/13/2016
MAHESH KUMAR KALIKOT VEETIL	07/07/2016
UMANG SURESHBHAI PATEL	05/31/2016
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

PATENT

Application Number: 16432603	
CORRESPONDENCE DATA	
Fax Number:	(202)857-6395
Phone:	(202) 857-6000
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<i>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.</i>	
Correspondent Name:	ARENT FOX LLP
Address Line 1:	1717 K STREET, NW
Address Line 4:	WASHINGTON, D.C., D.C. 20006-5344
ATTORNEY DOCKET NUMBER:	030284.17314/153586D1C1
NAME OF SUBMITTER:	COLIN J. HARRINGTON
Signature:	/Colin J. Harrington/
Date:	06/14/2019
Total Attachments: 8 source=153586D1C1_Assign from parent#page1.tif source=153586D1C1_Assign from parent#page2.tif source=153586D1C1_Assign from parent#page3.tif source=153586D1C1_Assign from parent#page4.tif source=153586D1C1_Assign from parent#page5.tif source=153586D1C1_Assign from parent#page6.tif source=153586D1C1_Assign from parent#page7.tif source=153586D1C1_Assign from parent#page8.tif	
RECEIPT INFORMATION	
EPAS ID:	PAT5572909
Receipt Date:	06/14/2019

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PATENT



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 17, 2019

PTAS

ARENT FOX LLP
1717 K STREET, NW
WASHINGTON, D.C., DC 20006-5344

505526103

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

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RECORDATION DATE: 06/14/2019

REEL/FRAME: 049471/0957
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 030284.17314/153586D1C1

ASSIGNOR:

LEE, HOON KI

DOC DATE: 08/19/2016

ASSIGNOR:

GHOLMIEH, AZIZ

DOC DATE: 06/21/2016

ASSIGNOR:

VEEREPALLI, ~~SIVARAMAKRISHNA~~
SIVARAMAKRISHNA

DOC DATE: 06/01/2016

ASSIGNOR:

MEYLAN, ARNAUD

DOC DATE: 05/20/2016

ASSIGNOR:

DHAMDHERE, DEEPAK

DOC DATE: 06/13/2016

ASSIGNOR:

KALIKOT VEETIL, MAHESH KUMAR

DOC DATE: 07/07/2016

ASSIGNOR:

PATEL, UMANG SURESHBHAI

DOC DATE: 05/31/2016

ASSIGNEE:

QUALCOMM INCORPORATED
5775 MOREHOUSE DRIVE
SAN DIEGO, CALIFORNIA 92121-1714

APPLICATION NUMBER: 16432603

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: TECHNIQUES FOR MANAGING COMMUNICATION LINKS OF A PLURALITY OF
RADIO ACCESS TECHNOLOGIES (RATS)

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

ASSIGNMENT

WHEREAS, WE,

1. **Hoon Ki LEE**, a citizen of **United States**, having a mailing address located at 1791 Cardel Way San Jose, CA 95124 and a resident of **San Jose, CA**,
2. **Aziz GHOLMIEH**, a citizen of **United States**, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of **Del Mar, CA**,
3. **Sivaramakrishna VEEREPALLI**, a citizen of **United States**, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of **San Diego, CA**,
4. **Arnaud MEYLAN**, a citizen of **Switzerland**, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of **San Diego, CA**,
5. **Deepak DHAMDHERE**, a citizen of **United States**, having a mailing address located at 3327 Famille Court San Jose, CA 95135 and a resident of **San Jose, CA**,
6. **Mahesh Kumar KALIKOT VEETIL**, 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**,
7. **Umang Sureshbhai PATEL**, a citizen of **India**, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of **Santa Clara, 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 TECHNIQUES FOR MANAGING COMMUNICATION LINKS OF A PLURALITY OF RADIO ACCESS TECHNOLOGIES (RATS) (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,

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). 15/152,278 filed May 11, 2016, Qualcomm Reference No. 153586, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 62/162,533 filed May 15, 2015, Qualcomm Reference No. 153586P1, (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;

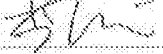
AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, 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;

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

Done at San Jose, on Aug 9 2016 
LOCATION DATE Hoon ki LEE

Done at _____, on _____
LOCATION DATE Aziz GHOLMIEH

Done at _____, on _____
LOCATION DATE Sivaramakrishna
VEEREPALLI

Done at _____, on _____
LOCATION DATE Arnaud MEYLAN

Done at _____, on _____
LOCATION DATE Deepak DHAMDHARE

Done at _____, on _____
LOCATION DATE Mahesh Kumar KALIKOT
VEETHI.

Done at _____, on _____
LOCATION DATE Umang Sureshbhai PATEL

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 _____
LOCATION DATE Hoon ki LEE

Done at San Diego, on 6/21/2016
LOCATION DATE Aziz GHOLMIEH

Done at _____, on _____
LOCATION DATE Sivaramakrishna VEEREPALLI

Done at _____, on _____
LOCATION DATE Arnaud MEYLAN

Done at _____, on _____
LOCATION DATE Deepak DHAMDHERE

Done at _____, on _____
LOCATION DATE Mahesh Kumar KALIKOT VEETIL


Done at _____, on _____
LOCATION DATE Umang Sureshbhai PATEL


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 _____
LOCATION DATE Hoon Ki LEE

Done at _____, on _____
LOCATION DATE Aziz GHOLMIEH

Done at San Diego, on June 1, 2016
LOCATION DATE 
Sivaramakrishna
VEEREPALLI

Done at San Diego, on May 20th, 2016
LOCATION DATE 
Arnaud MEYLAN

Done at _____, on _____
LOCATION DATE Deepak DHAMDHERE

Done at _____, on _____
LOCATION DATE Mahesh Kumar KALIKOT
VEETIL

Done at _____, on _____
LOCATION DATE Umang Sureshbhai PATEL

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 _____
LOCATION DATE Hoon ki LEE

Done at _____, on _____
LOCATION DATE Aziz GHOLMIEH

Done at _____, on _____
LOCATION DATE Sivaramakrishna
VEEREPALLI

Done at _____, on _____
LOCATION DATE Arnaud MEYLAN

Done at San Jose, CA, on 8/13/2016
LOCATION DATE *Deepak Dhamdhare*
Deepak DHAMDHERE

Done at _____, on _____
LOCATION DATE Mahesh Kumar KALIKOT
VEETIL

Done at _____, on _____
LOCATION DATE Umang Sureshbhai PATEL

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 _____
LOCATION DATE Hoon ki LEE

Done at _____, on _____
LOCATION DATE Aziz GHOLMIEH

Done at _____, on _____
LOCATION DATE Sivaramakrishna
VEEREPALLI

Done at _____, on _____
LOCATION DATE Arnaud MEYLAN

Done at _____, on _____
LOCATION DATE Deepak DHAMDHERE

Done at Sao Paulo, on 07/07/2010
LOCATION DATE 
Mahesh Kumar KALIKOT
VEETIL

Done at _____, on _____
LOCATION DATE Umang Sureshbhai PATEL

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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Done at _____, on _____
LOCATION DATE Hoon ki LEE

Done at _____, on _____
LOCATION DATE Aziz GHOLMIEH

Done at _____, on _____
LOCATION DATE Sivaramakrishna VEEREPALLI

Done at _____, on _____
LOCATION DATE Arnaud MEYLAN

Done at _____, on _____
LOCATION DATE Deepak DHANDHERE

Done at _____, on _____
LOCATION DATE Mahesh Kumar KALIKOT VEETIL

Done at San Jose, CA, on 05/31/2016
LOCATION DATE 
Umang Sureshbhai PATEL