PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7118241

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the EXECUTION DATE OF THE FIRST INVENTOR previously recorded on Reel 056905 Frame 0821. Assignor(s) hereby confirms the CORRECT DATE IS 02/29/2012.	

CONVEYING PARTY DATA

Name	Execution Date
HAO XU	02/29/2012
XILIANG LUO	03/01/2012
XIAOXIA ZHANG	03/01/2012
PETER GAAL	04/02/2021
TINGFANG JI	03/02/2012
JUAN MONTOJO	03/01/2012

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:	17378183

CORRESPONDENCE DATA

Fax Number: (713)623-4846

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: 713-623-4844

Email: psdocketing@pattersonsheridan.com,

tthomas@pattersonsheridan.com

Correspondent Name: PATTERSON & SHERIDAN, LLP

Address Line 1: 24 GREENWAY PLAZA

Address Line 2: SUITE 1600

Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER: QUAL/111064USC01

NAME OF SUBMITTER: TAMMI THOMAS

SIGNATURE: /TAMMI THOMAS/

DATE SIGNED:	01/12/2022	
Total Attachments: 16		
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Assignment Page 1 of 2

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
HAO XU	02/28/2012
XILIANG LUO	03/01/2012
XIAOXIA ZHANG	03/01/2012
PETER GAAL	04/02/2012
TINGFANG JI	03/02/2012
JUAN MONTOJO	03/01/2012

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:	17378183	

CORRESPONDENCE DATA

Fax Number: (713)623-4846 **Phone:** 713-623-4844

Email: psdocketing@pattersonsheridan.com, tthomas@pattersonsheridan.com

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.

Correspondent Name: PATTERSON & SHERIDAN, LLP

Address Line 1: 24 GREENWAY PLAZA

Address Line 2: SUITE 1600

Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER:	QUAL/111064USC01
NAME OF SUBMITTER:	TAMMI THOMAS

Assignment Page 2 of 2

Signature:	/TAMMI THOMAS/	
Date:	07/19/2021	
Total Attachments: 12 source=111064D1C1_Assignment from parent#page1.tif source=111064D1C1_Assignment from parent#page2.tif source=111064D1C1_Assignment from parent#page3.tif source=111064D1C1_Assignment from parent#page4.tif source=111064D1C1_Assignment from parent#page5.tif source=111064D1C1_Assignment from parent#page6.tif source=111064D1C1_Assignment from parent#page7.tif source=111064D1C1_Assignment from parent#page8.tif source=111064D1C1_Assignment from parent#page9.tif source=111064D1C1_Assignment from parent#page10.tif source=111064D1C1_Assignment from parent#page11.tif source=111064D1C1_Assignment from parent#page12.tif		
RECEIPT INFORMATION		
EPAS ID: PAT6820	0806	
Receipt Date: 07/19/20	21	

WHEREAS, WE,

- 1. **Hao Xu**, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
- 2. **Xiliang Luo**, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of Cardiff, CA, US,
- 3. **Xiaoxia Zhang**, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
- 4. **Peter Gaal,** a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
- 5. **Tingfang Ji,** a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
- 6. Juan Montojo, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US.

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 POWER CONTROL AND USER MULTIPLEXING FOR HETEROGENEOUS NETWORK COORDINATED MULTIPOINT OPERATIONS (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). 13/372,458 filed February 13, 2012, Qualcomm Reference No. 111064, and all provisional applications relating thereto, together

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 represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at	Sea Diego, of LOCATION	1 2/28/20/2 DATE	Hão Xu
Done at	<u>Sin Ingo</u> , of LOCATION	3/1/2012 DATE	Xiliang Luo
Done at	Schu Dreg C, of Location	13/1/2012 DATE	Xiaoxia Zhang
Done at	LOCATION , or	DATE	Peter Gaal
Done at	LOCATION	1DATE	Tingfang Ji
Done at	LOCATION , or	DATE	Juan Montoio

WHEREAS, WE,

- 1. Hao Xu, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
- 2. Xiliang Luo, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of Cardiff, CA, US,
- 3. Xiaoxia Zhang, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
- 4. Peter Gaal, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
- 5. Tingfang Ji, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
- 6. Juan Montojo, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US

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 POWER CONTROL AND USER MULTIPLEXING FOR HETEROGENEOUS NETWORK COORDINATED MULTIPOINT OPERATIONS (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). 13/372,458 filed February 13, 2012, Qualcomm Reference No. 111064, and all provisional applications relating thereto, together

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 represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at	, on		
LOCATION	DATE	Hao Xu	
Done atLOCATION	, on	Xiliang Luo	
Done atLOCATION	, on	Xiaoxia Zhang	••••
Done at <u>Son Dicest</u> LOCATION	on April 2, core DATE	Peter Gaal	
Done at LOCATION	DATE	Tingfang Ji	
Done at	, on	Juan Montoio	******

WHEREAS, WE,

- 1. Hao Xu, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
- 2. Xiliang Luo, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of Cardiff, CA, US,
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AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at		, on	
_	LOCATION	DATE	Hao Xu
Done at _	LOCATION	, on	Xiliang Luo
Done at_	1 OCATION	, on	Xiaoxia Zhang
Done at _	LOCATION	, onDATE	Peter Gaul
Done at _	Sm Pilgo	, on <u>3/2/201</u>	Tingfang Ji
	LOCATION!	DATE	Tingfang Ji
Done at _		_, on	
	LOCATION	DATE	Juan Montojo

WHEREAS, WE,

- 1. **Hao Xu,** a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121, US and a resident of San Diego, CA, US,
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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 Ref. No. 111064 Page 3 of 3

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter berein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at	, on	
LOCATION	, on DATE	Hao Xu
Done at	, on	Xiliang Luo
LOCATION	DATE	Amang Luo
Done at	, on	
LOCATION	DATE	Xiaoxia Zhang
Done at	, on	
LOCATION	DATE	Peter Gaal
Done at	, on	Tingfang Ji
LOCATION	DATE	Tingfang Ji
·	*	1 Contract
Done at Nuremberg	on <u>3///12</u> DATE	
LOCATION	DATE	Juan Montojo

PATENT REEL: 058705 FRAME: 0868

RECORDED: 01/12/2022