503388090 07/11/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT3434715

CONVEYING PARTY DATA

Name	Execution Date
MATTEO TOTI MANNINO	06/08/2015
XIN ZHONG	07/02/2015
DASHAN GAO	05/29/2015
GOKCE DANE	05/29/2015

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:	14707929	

CORRESPONDENCE DATA

Fax Number: (801)606-2774

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: 801-537-1700

Email: wla-admin@austin-rapp.com

Correspondent Name: WESLEY L. AUSTIN

Address Line 1: 170 S. MAIN ST., STE. 735
Address Line 4: SALT LAKE CITY, UTAH 84101

ATTORNEY DOCKET NUMBER: 151398

NAME OF SUBMITTER: WESLEY L. AUSTIN

SIGNATURE: /Wesley L. Austin/

DATE SIGNED: 07/11/2015

Total Attachments: 6

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ASSIGNMENT

WHEREAS, WE,

- 1. Matteo Toti Mannino, a citizen of the United States of America, having a mailing address located at 8332 Regents Road, Unit A, San Diego, California 92122 and a resident of San Diego, California,
- 2. Xin Zhong, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of San Diego, California,
- 3. Dashan Gao, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of San Diego, California,
- 4. Gokce Dane, a citizen of Turkey, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of San Diego, California,

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 SYSTEMS AND METHODS FOR REDUCING A PLURALITY OF BOUNDING REGIONS (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). 14/707,929 filed May 8, 2015, Qualcomm Reference No. 151398, 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 that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \leq	LOCATION	, on/	June 8, 2015	Matteo Toti Mannino
Done at _	LOCATION	, on	DATE	Xin Zhong
Done at _	LOCATION	, on	DATE	Dashan Gao
Done at _	LOCATION	, on	DATE	Gokce Dane

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

Done at		, on	
2010 W _	LOCATION	DATE	Matteo Toti Mannino
Done at	Saadeego Location	, on <u> </u>	Xin Zhong
Done at _	LOCATION	, on	Dashan Gao
Done at	LOCATION	, on	Gokce Dane

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

Done at	9 ·	on	
	LOCATION	DATE	Matteo Toti Mannino
Done at		on	
Done at	LOCATION	DATE	Xin Zhong
Done at	San Diego,	on <u>5/29/201</u> 5 DATE	
	LOCATION	DATE	Dashan Gao
Done at		on	
	LOCATION	DATE	Gokce Dane

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	Matteo Toti Mannino
Done at _	LOCATION	_, on	DATE	Xin Zhong
Done at _	LOCATION	_, on	DATE	Dashan Gao
Done at _	San Diego LOCATION	_, on	<u>Мау 29, 20</u> 15 DATE	Gokce Dane

PATENT REEL: 036063 FRAME: 0644

RECORDED: 07/11/2015