## 501920086 05/14/2012

## PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Ajay Gupta	04/24/2012
Gang Bao	04/17/2012
Jun Wang	04/23/2012
George Cherian	04/08/2012

## **RECEIVING PARTY DATA**

Name:	QUALCOMM Incorporated		
Street Address:	5775 Morehouse Drive		
City:	San Diego		
State/Country:	CALIFORNIA		
Postal Code:	92121-1714		

#### PROPERTY NUMBERS Total: 3

Property Type	Number
Application Number:	13445864
Application Number:	61476229
Application Number:	61507530

# **CORRESPONDENCE DATA**

 Fax Number:
 (213)687-0498

 Phone:
 (213) 787-2500

Email: DEDocketing@cblh.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Grant T. Langton
Address Line 1: 333 S. Grand Ave.

Address Line 2: Suite 2300

Address Line 4: Los Angeles, CALIFORNIA 90071

ATTORNEY DOCKET NUMBER: 32716-00004/111346

501920086 REEL: 028205 FRAME: 0237

PATENT

P \$120,00 13445864

NAME OF SUBMITTER:	Grant T. Langton	
Total Attachments: 6 source=111346_Assignment_as_filed_May_	· - · · ·	
source=111346_Assignment_as_filed_May_14_2012#page2.tif source=111346_Assignment_as_filed_May_14_2012#page3.tif source=111346_Assignment_as_filed_May_14_2012#page4.tif		
source=111346_Assignment_as_filed_May_ source=111346_Assignment_as_filed_May_		

# ASSIGNMENT

WHEREAS, WE,

- 1. Ajay Gupta, a citizen of India, having a mailing address of 5775 Morehouse Drive San Diego, CA 92121; and a resident of San Diego, CA,
- 2. Gang Bao, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
- 3. George Cherian, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
- 4. Jun Wang, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, 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 **DEMAND-BASED MULTIMEDIA BROADCAST MULTICAST SERVICE MANAGEMENT** (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). 13/445,864 filed April 12, 2012 Qualcomm Reference No. 111346, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/476,229, filed April 15, 2011, Qualcomm Reference No. 111346P1, together with U.S. Provisional Application No(s). 61/507,530, filed July 13, 2011, Qualcomm Reference No. 111346P2, (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 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.

PATENT QUALCOMM Ref. No. 111346 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 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	Sun Diego	, on	4 24/2012 DATE	Asin Grain
	LOCATION		DATE	Ajay Gupta
Done at	***************	_, on	anni ini mananani in annanani annani	
	LOCATION		DATE	Gang Bao
Done at		, on		
	LOCATION		DATE	George Cherian
<b>73</b>			k.	
Done at		_, on		* ************************************
	LOCATION		DATE	Jun Wang

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	, or	1	
•	LOCATION	DATE	Ajay Gupta
Oone at -	San Digo, or	4/17/12	Gry Sar
•••	LOCATION	DATE	Gang Bao
Done at_	, or	n	
	LOCATION	DATE	George Cherian
Done at _	, or	1	
	LOCATION	DATE	Jun Wang

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	Ajay Gupta
Done at		_, on		
	LOCATION		DATE	Gang Bao
Done at	San Olega	on .	DATE 2012	
	LOCATION		DATE	George Cherian
Done at		_, on		
	LOCATION		DATE	Jun Wang

# PATENT QUALCOMM Ref. No. 111346 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 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	Ajay Gupta
Done at		, on _		
	LOCATION		DATE	Gang Bao
Done at	LOCATION	, on	DATE	George Cherian
Done at	Sin D7090	, on	4/23/12	
	LOCATION		DATE	Jun Wang

PATENT REEL: 028205 FRAME: 0244

**RECORDED: 05/14/2012**