PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3114423

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the PROVISIONAL APPLICATION 61/598,187 FILED FEBRUARY 13, 2011 previously recorded on Reel 030591 Frame 0001. Assignor(s) hereby confirms the FILING DATE OF PROVISIONAL APPLICATION 61/598,187 FILED FEBRUARY 13, 2012 (NOT 2011).

CONVEYING PARTY DATA

Name	Execution Date
EUGENE J. BAIK	01/23/2013
SAMEER VERMANI	03/06/2013
LIN YANG	01/23/2013
HEMANTH SAMPATH	04/09/2013

RECEIVING PARTY DATA

Name:	QUALCOMM Incorporated
Street Address:	5775 Morehouse Drive
Internal Address:	Patent Department/Central Administration
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13690481

CORRESPONDENCE DATA

Fax Number: (858)658-2502

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: 858-845-4265

Email: us-docketing@qualcomm.com
Correspondent Name: QUALCOMM INCORPORATED

Address Line 1: 5775 MOREHOUSE DR.

Address Line 4: SAN DIEGO, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER:	120674U1
NAME OF SUBMITTER:	GINA GOLIA
SIGNATURE:	/Gina Golia/
DATE SIGNED:	11/19/2014

PATENT 503067820 REEL: 034382 FRAME: 0731

Total Attachments: 12 source=120674U1_2014-11-19_ASST#page1.tif source=120674U1_2014-11-19_ASST#page2.tif source=120674U1_2014-11-19_ASST#page3.tif source=120674U1_2014-11-19_ASST#page4.tif source=120674U1_2014-11-19_ASST#page5.tif source=120674U1_2014-11-19_ASST#page6.tif source=120674U1_2014-11-19_ASST#page7.tif source=120674U1_2014-11-19_ASST#page8.tif source=120674U1_2014-11-19_ASST#page9.tif source=120674U1_2014-11-19_ASST#page10.tif source=120674U1_2014-11-19_ASST#page11.tif source=120674U1_2014-11-19_ASST#page11.tif source=120674U1_2014-11-19_ASST#page12.tif

WHEREAS, WE,

- 1. **Eugene J. Baik**, a citizen of **the United States of America**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of San Diego, California;
- 2. **Sameer Vermani,** a citizen of **India**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of **San Diego, California**;
- 3. **Lin Yang,** a citizen of **China P. R.,** having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of **San Diego, California**;
- 4. **Hemanth Sampath**, a citizen of the **United States of America**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; 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 COMMUNICATION OVER A PLURALITY OF FREQUENCIES AND STREAMS** (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). 13/690,481 filed November 30th, 2012 Qualcomm Reference No. 120674U1 and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/569,455, filed December 12th, 2011, Qualcomm Reference No. 120674P1, U.S. Provisional Application No(s). 61/592,560, filed January 30th, 2012, Qualcomm Reference No. 120674P3, U.S. Provisional Application

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;

Done at San Diego, California on	1/23/13	Sur Brule
LOCATION	(DATÉ	Eugene J. Baik
Done at San Diego, California on		
LOCATION	DATE	Sameer Vermani
Done at San Diego, California on		
LOCATION	DATE	Lin Yang
Done at San Diego, California on		
LOCATION	DATE	Hemanth Sampath

WHEREAS, WE,

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- 3. **Lin Yang,** a citizen of **China P. R.,** having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of **San Diego, California**;
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Done at San Diego, California	on		
LOCATION	DATE	Eugene J. Baik	
Done at San Diego, California	on <u>(3/04/2012</u>	- Samuel	
LOCATION	DATE	Sameer Vermani	_
Done at San Diego, California	on		
LOCATION	DATE	Lin Yang	~
Done at San Diego, California	on		
LOCATION	DATE	Hemanth Sampath	~

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LOCATION	DATE	Eugene J. Baik
Done at San Diego, California on LOCATION	DATE	Sameer Vermani
LOCATION	DATE	Sameer Verman
Done at San Diego, California on	1/23/2013	
LOCATION	DATE	Lin Yang
Demand Com Dines Califeria		
Done at San Diego, California on _		**************************************
LOCATION	DATE	Hemanth Sampath

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Done at <u>San Diego, California</u> c	on		
LOCATION	DATE	Eugene J. Baik	
Done at <u>San Diego, California</u> c	on		
LOCATION	DATE	Sameer Vermani	
Done at <u>San Diego, California</u> c	on		
LOCATION	DATE	Lin Yang	
Done at <u>San Diego, California</u> c	on_04/04/13	Maste	
LOCATION	DATE	Hemanth Sampath	

RECORDED: 11/19/2014