504820763 03/15/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4867498

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIE WU	03/12/2013
DANIEL FRED FILIPOVIC	10/03/2013
EMILIJA MILORAD SIMIC	06/25/2013
VISHAL AGARWAL	03/06/2013

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:	15881685

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.

Phone: 7036217140

Email: meo.docket@mg-ip.com

Correspondent Name: MUNCY, GEISSLER, OLDS & LOWE, P.C./QC

Address Line 1: 4000 LEGATO ROAD, SUITE 310

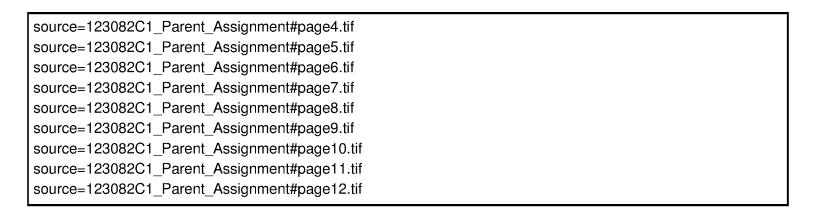
Address Line 4: FAIRFAX, VIRGINIA 22033

ATTORNEY DOCKET NUMBER:	QC123082C1	
NAME OF SUBMITTER:	SAMANTHA PITTENGER	
SIGNATURE:	/Samantha Pittenger/	
DATE SIGNED:	03/15/2018	

Total Attachments: 12

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PATENT 504820763 REEL: 045229 FRAME: 0730



WHEREAS, WE,

- 1. Jie Wu, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121, and a resident of San Diego, CA,
- 2. Daniel Fred Filipovic, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121, and a resident of Solana Beach, CA,
- 3. Emilija Milorad Simic, a citizen of Yugoslavia, having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121, and a resident of La Jolla, CA,
- 4. Vishal Agarwal, a citizen of the 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 **BACKGROUND CRYSTAL OSCILLATOR CALIBRATION** (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). 13/784,046 filed March 4, 2013, Qualcomm Reference No. 123082, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/666,307, filed June 29, 2012, Qualcomm Reference No. 122826P1, (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 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 _		
<i>K</i> 4	LOCATION	DATE	Jie Wu
Done at _	San Diggs, on LOCATION	DATE	Daniel Fred Filipovic
Done at _	, on	DATE	Emilija Milorad Simic
Done at_	LOCATION , on	DATE	Vishal Agarwal

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Done at	, on	
LOCATION	DATE	Jie Wu
Done atLOCATION	_, on	
LOCATION	DATE	Daniel Fred Filipovic
Done at 5 NV DIEGO LOCATION	, on <u>G-25-13</u>	Centhra Simi
LOCATION	DATE	Emilija Milorad Simic
		·
Done at	, on	
LOCATION	DATE	Vishal Agarwal

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Done at	jan Diejo, C LOCATION	A, on 3	/12/13	ne Cle
	LOCATION		DATE	Jie Wu
Done at _		, on		
Done at _	LOCATION	on	DATE	Daniel Fred Filipovic
Done at _	· · · · · · · · · · · · · · · · · · ·	, on		
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PATENT
QUALCOMM Ref. No. 123082
Page 3 of 3

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Done at	, on		
•	LOCATION	DATE	Jie Wu
Done at	, on		
	LOCATION	DATE	Daniel Fred Filipovic
Done at	, on		
	LOCATION	DATE	Emilija Milorad Simic
Done at _	SAN DIEGO, on LOCATION	03/06/26/3	
	LOCATION	DATÉ	Vishal Agarwal

PATENT REEL: 0**35**292 FRAME: 0**2**45

RECORDED: 00/15/2018