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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
PALKESH JAIN	08/29/2016
VIRENDRA BANSAL	09/06/2016
RAHUL GULATI	09/01/2016

RECEIVING PARTY DATA

Postal Code:	92121-1714
State/Country:	CALIFORNIA
City:	SAN DIEGO
Street Address:	5775 MOREHOUSE DRIVE
Name:	QUALCOMM INCORPORATED

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15176745

CORRESPONDENCE DATA

Fax Number: (801)413-0106

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: (949) 681-8161

Email: qualcomm-pto@lozaip.com

Correspondent Name: LOZA & LOZA, LLP/QUALCOMM Address Line 1: 305 N. SECOND AVE., #127 Address Line 4: **UPLAND, CALIFORNIA 91786**

ATTORNEY DOCKET NUMBER:	QCOM-3069US (160481)
NAME OF SUBMITTER:	GEORGE FOUNTAIN
SIGNATURE:	/George Fountain/
DATE SIGNED:	09/14/2016

Total Attachments: 5

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ASSIGNMENT

WHEREAS, WE,

- Palkesh JAIN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Bangalore, India,
- Virendra BANSAL, a citizen of India, having a mailing address located at B 115, Aristocrat
 Apartments 1st Main, Kasturinagar, Bangalore, KRN 560043 and a resident of Bangalore,
 India.
- 3. Rahul GULATI, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 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 SYSTEM AND METHOD FOR FALSE PASS DETECTION IN LOCKSTEP DUAL CORE OR TRIPLE MODULAR REDUNDANCY (TMR) SYSTEMS (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. 15/176,745 filed June 8, 2016, Qualcomm Reference No. 160481, and all provisional applications relating thereto, 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;

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	AND WE HERE ver conflicting wi		If not execute any writing or do any act
Done at	BANGALORE	, on 29/AUG 176	
	LOCATION	DATE	PalkeSt(JAIN
Done at		, on	
	LOCATION	DATE	Vivendra BANSAL
Done at		, on	
	LOCATION	DATE	Rabul GULATI

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

Done at	LOCATION	DATE	Palkesh JAIN
Done at	<u>Cangalo</u> (4., o LOCATION	n <u>Sezat 6, 2016</u> DATE	Virendra BANSAL
Done at	LOCATION	late	Robel CHLATI

PATENT QUALCOMM Ref. No. 160481 Page 3 of 3

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

Done at		XX	
	LOCATION	DATE	Palkesh JAIN
Done at _	LOCATION	DATE	Virendra BANSAL
	LOCATION	DATE	Virendra BANSAL
Done at	- (, and the second se	Jakes Gulat.
ranno m	LOCATION ,	DATE	Rahul GULATI

PATENT REEL: 040031 FRAME: 0572

RECORDED: 09/14/2016