502472677 08/27/2013

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Arul Durai Murugan Palanivelu	08/06/2013
Kapil Bhattad	08/06/2013
Dhananjay Ashok Gore	08/06/2013
Ashok Mantravadi	08/20/2013
Ahmed Kamel Sadek	08/13/2013

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:	13957241

CORRESPONDENCE DATA

Fax Number: 7136234846

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (713) 623-4844

Email: mmiles@pattersonsheridan.com,

 ${\tt PSDocketing@pattersonsheridan.com}$

Correspondent Name: PATTERSON & SHERIDAN, LLP

Address Line 1: 3040 Post Oak Blvd.

Address Line 2: Suite 1500

Address Line 4: Houston, TEXAS 77056

ATTORNEY DOCKET NUMBER:	123550US	
NAME OF SUBMITTER:	Randol W. Read	PATENT

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Signature:	/Randol W. READ/
Date:	08/27/2013
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ASSIGNMENT

WHEREAS, WE.

- 1. Arul Durai Murugan Palanivelu, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Bangalore, India;
- 2. Kapil Bhattad, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Bangalore, India;
- 3. Dhananjay Ashok Gore, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Bangalore, India;
- 4. Ashok Mantravadi, 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, CA; and
- 5. Ahmed Kamel Sadek, a citizen of Egypt, having a mailing address located at 5775 Morehouse Drive. San Diego, California 92121-1714, 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 METHODS AND APPARATUS FOR TRANSMITTING CLEAR TO SEND (CTS)-TO-SELF INDICATION (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. 13/957,241, filed August 1, 2013, Qualcomm Reference No. 123550, and all provisional applications relating thereto, together with U.S. Provisional Application No. 61/679,414, filed August 3, 2012, Qualcomm Reference No. 123550P1, 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:

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

Done at Bangalas Jodea , on 00/06/2013

LOCATION DATE

Arei Durai Murugan Palanivelu

LOCATION DATE

Kapil Bhattad

PATENT

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PATENT QUALCOMM Ref. No. 123550 Page 3 of 3

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

Done at	Bangalow.	om Avs 6, 2013	- 1	
	LOCATION	on Avg 6/2013 DATE	Dhananjay Ashok Gore	n, er, er, er, er, er, er, er, er
Done at	٠	ON		
.,,	LOCATION	DATE	Ashok Mantravadi	******
Done at	· · · · · · · · · · · · · · · · · · ·	088		
	LOCATION	DATE	Abmed Kamel Sadek	

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

Done at	, on			
	LOCATION		DATE	Dhananjay Ashok Gore
Done at	Son Diego	, on	8/20/2013	Mole
	LOCATION		DATE	Ashok Mantravadi
Done at		, on		
	LOCATION		DATE	Ahmed Kamel Sadek

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

Done at		, on		
	LOCATION		DATE	Dhananjay Ashok Gore
Done at		, on		
Dono ac	LOCATION	_, 011 .	DATE	Ashok Mantravadi
Done at	SAN DIETO	on	8/13/13	Ass
20110 40	LOCATION	_,	DATE	Ahmed Kamel Sadek