503013146 10/09/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3059746

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
DEBESH KUMAR SAHU	10/09/2014
GEORGE CHERIAN	09/29/2014
VENKATA SIVA PRASAD RAO GUDE	09/17/2014
NEELAKANTA VENKATA SESHACHALAM CHIMMAPUDI	09/10/2014
SACHIN JAIN	09/16/2014

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:	13772761	

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) 651-5205

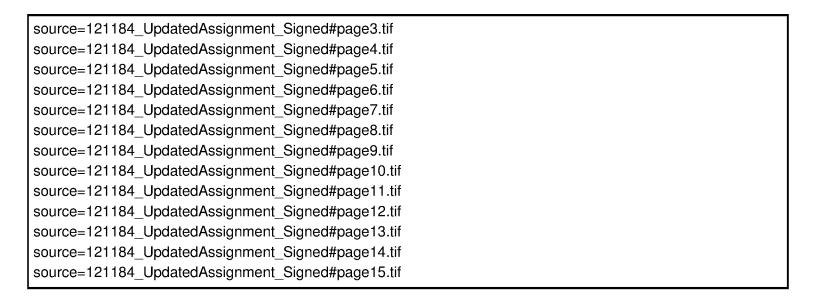
Email:us-docketing@qualcomm.comCorrespondent Name:QUALCOMM INCORPORATEDAddress Line 1:5775 MOREHOUSE DRIVE

Address Line 4: SAN DIEGO, CALIFORNIA 92121-1714

ATTORNEY DOCKET NUMBER:	121184	
NAME OF SUBMITTER:	MICHELLE SANFILIPPO	
SIGNATURE:	/Michelle Sanfilippo/	
DATE SIGNED:	10/09/2014	

Total Attachments: 15

source=121184_UpdatedAssignment_Signed#page1.tif source=121184_UpdatedAssignment_Signed#page2.tif



WHEREAS, WE,

- 1. **Debesh Kumar SAHU**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121 and a resident of Hyderabad, Andhra Pradesh, India,
- 2. George CHERIAN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121 and a resident of San Diego, California,
- 3. Venkata Siva Prasad Rao GUDE, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego California 92121 and a resident of San Diego, California,
- 4. Neelakanta Venkata Seshachalam CHIMMAPUDI, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121 and a resident of San Diego, California,
- 5. Sachin JAIN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121 and a resident of Sunnyvale, 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 HIGH-SPEED DATA CHANNEL AVAILABILITY (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). 13/772,761 filed February 21, 2013, Qualcomm Reference No. 121184, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/618,498, filed March 30, 2012, Qualcomm Reference No. 121184P1, (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

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 OPALCOMM 2 of No. 121184 Page 3 of 3

Done at	Locarion	14 called	Debesh Kumar SAMU
Done at	LOCATION	021 or w out	
	LOCATION	DATE	George CHERIAN
Done at	LOCATION	10 A 2004	
		BATE	Venkota Siva Prasad Rao GUDE
Done at		- Control of the Cont	ialamin Venkuis Seshachalam (HIMMAPUI))
	LOCATION	DATE Neel	lakuntu Venkata Seshachalam CHIMMAPUDI
Done at _	, 9N		
	LOCATION	DATE	Suchin JAIN

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- 2. George CHERIAN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121 and a resident of San Diego, California,
- 3. Venkata Siva Prasad Rao GUDE, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego California 92121 and a resident of San Diego, California,
- 4. **Neelakanta Venkata Seshachalam CHIMMAPUDI**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121 and a resident of San Diego, California,
- 5. **Sachin JAIN**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121 and a resident of Sunnyvale, 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 HIGH-SPEED DATA CHANNEL AVAILABILITY (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.

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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		
	LOCATION		DATE	Debesh Kumar SAHU
Done at	San Diego	, on	9/29/2014 DATE	
	LOCATION		DATE	George CHERIAN
Done at _		, on	DATE	
	LOCATION		DATE	Venkata Siva Prasad Rao GUDE
***				•
Done at	LOCATION	, on	DATE Neelaka	nta Venkata Seshachalam CHIMMAPUDI
Done at _		_, on		
	LOCATION		DATE	Sachin JAIN

WHEREAS, WE,

- 1. **Debesh Kumar SAHU**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121 and a resident of Hyderabad, Andhra Pradesh, India,
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Done at		, on		
	LOCATION		DATE	Debesh Kumar SAHU
Done at	LOCATION	, on		
Done at j	SAN, PIEG CA LOCATION	, on	GITIU DATE	Venkata Siva Prasad Rao GUDE
Done at_		, on		
	LOCATION		DATE	Neelakanta Venkata Seshachalam CHIMMAPUDI
Done at _		, on		
	LOCATION		DATE	Sachin TAIN

WHEREAS, WE.

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Done at		, on	
	LOCATION	DATE	Debesh Komar SAHU
Done at		, on	
	LOCATION	DATE	George CHERIAN
Done at	F.O.C. ETTEN	, on	
	LOCATION	DATE	Venkata Siva Prasad Rao GUDE
Done at <u></u>	ADUACUA (O	, on <u>19</u> 88 9 10 / Well	Neelakanta Venkata Seshachalam CHIMMAPUDI
	LOCATION	DATE	Neelakanta Venkata Seshachalam CHIMMAPUDI
Done at		, on	
	LOCATION	DATE	Sachin JAIN

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Done at _	, on _		
	LOCATION	DATE	Debesh Kumar SAHU
Done at _	LOCATION on		
	LOCATION	DATE	George CHERIAN
Done at	LOCATION on		
	LOCATION	DATE	Venkata Siva Prasad Rao GUDE
Done at	LOCATION , on	DATE	Neelakanta Venkata Seshachalam CHIMMAPUDI
Done at <u>5</u>	<u>VNNY VALE</u> , on _S LOCATION) 16 2014 DATE	

PATENT REEL: 033924 FRAME: 0478

RECORDED: 10/09/2014