503525246 10/15/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3571872

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
KUO-CHUN LEE	10/08/2015
SIVARAMAKRISHNA VEEREPALLI	10/13/2015
JACK SHYH-HURNG SHAUH	10/08/2015
SHAILESH MAHESHWARI	10/08/2015
MOHAN KRISHNA GOWDA	10/08/2015
RALPH AKRAM GHOLMIEH	10/08/2015
NERMEEN AHMED BASSIOUNY	10/09/2015
PAVAN CHAITHANYA KAIVARAM	10/09/2015
RAMCHANDRAN SRINIVASAN	10/08/2015

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:	14850313	

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: 214-855-8000

Email: tamerie.ballance@nortonrosefulbright.com

Correspondent Name: QUALCOMM /NORTON ROSE FULBRIGHT US LLP

Address Line 1: 2200 ROSS AVENUE

Address Line 2: SUITE 3600

Address Line 4: DALLAS, TEXAS 75201-7932

ATTORNEY DOCKET NUMBER: QLXX.P1073US/11505621

NAME OF SUBMITTER: R. ROSS VIGUET

SIGNATURE:	/R. Ross Viguet/
DATE SIGNED:	10/15/2015
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, WE,

- 1. Kuo-Chun LEE, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 2. Sivaramakrishna VEEREPALLI, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 3. Jack Shyh-hurng SHAUH, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 4. Shailesh MAHESHWARI, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 5. Mohan Krishna GOWDA, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 6. Ralph Akram GHOLMIEH, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 7. Nermeen Ahmed BASSIOUNY, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 8. Pavan Chaithanya KAIVARAM, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 9. Ramchandran SRINIVASAN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 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 **DYNAMIC SETTING OF FEC IN EMBMS VIDEO STREAMING** (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). 14/850,313 filed September 10, 2015, Qualcomm Reference No. 152939, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 62/156,002, filed May 1, 2015, Qualcomm Reference No. 152939P1, (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 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	Sim Digg, on _	10/8/2015	/	
	LOCATION	DATE	Kuo-Chun LEE	
Done at	Son Digo, on LOCATION	10 13 2015 DATE	Sivaramakrishna VEEREPALLI	
Done at	San Diego, on LOCATION	10/4/2015 DATE	Jack Shyh-hurng SHAUH	il
Done at	Sin Drey Con LOCATION	10 8 2015 DATE	Shailesh MAHESHWARI	
Done at	San Diger, on LOCATION	ic 18 12015 DATE	Mohan Krishna GOWDA	
Done at	LOCATION	DATE	Ralph Akram GHOLMIEH	

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	,0	n	
_	LOCATION	n	Kuo-Chun LEE
Done at _		n	
	LOCATION	DATE	Sivaramakrishna VEEREPALLI
_			
Done at _	,0	n	Jack Shyh-hurng SHAUH
	LOCATION	DATE	Jack Shyh-hurng SHAUH
Done at	.0	n	
_	LOCATION	n	Shailesh MAHESHWARI
Done at _	LOCATION , o	n	
	LOCATION	DATE	Mohan Krishna GOWDA
			DATA
Done at _	Son Digg. 0	n <u>10/08/2015</u>	- KOHY
	I OCATION!	DATE	Dolph Algrom CUOI MIEU

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 _	LOCATION,	on /b/e)//G DATE	Nermeen Ahmed BASSIOUNY
Done at _	LOCATION	on	Pavan Chaithanya KAIVARAM
Done at	 LOCATION	on	Ramchandran SRINIVASAN

QUALCOMM Ref. No. 152939

Page 4 of 4

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	Nermeen Ahmed BASSIOUNY
Done at	SAN PLEGO, on LOCATION	10/9/2015 DATE	Pavan Chaithanya KAIVARAM
Done at			
	LOCATION	DATE	Ramchandran SRINIVASAN

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	Nermeen Ahmed BASSIOUNY
Done at		on		
	LOCATION	-	DATE	Pavan Chaithanya KAIVARAM
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Done at 5	AN DIEGO	, on Co	08,2615	I come hand in.
	LOCATION		DATE	Ramchandran SRINIVASAN

PATENT REEL: 036803 FRAME: 0812

RECORDED: 10/15/2015