

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2980885

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	SRINIVASA RAO ERAVELLI	07/15/2014
	SITARAMANJANEYULU KANAMARLAPUDI	07/21/2014
	ROHIT KAPOOR	07/31/2014
	SIVARAM SRIVENKATA PALAKODETY	07/14/2014
	VENKATA RAMANAN VENKATACHALAM JAYARAMAN	07/14/2014
	MURTUZA TAHERI CHHATRIWALA	07/16/2014
	SUMANTH GOVINDAPPA	08/01/2014
	PAMELA ANN CERECK	07/11/2014
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:	14312423	
CORRESPONDENCE DATA		
Fax Number:	(202)857-6395	
<i>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.</i>		
Phone:	2028576000	
Email:	dcipdocket@arentfox.com	
Correspondent Name:	ARENT FOX LLP	
Address Line 1:	1717 K STREET, NW	
Address Line 4:	WASHINGTON, D.C. 20036	
ATTORNEY DOCKET NUMBER:	030284.07929/135212	
NAME OF SUBMITTER:	NATASHA BROWN	
SIGNATURE:	/Natasha Brown/	
DATE SIGNED:	08/13/2014	

PATENT

Total Attachments: 11

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ASSIGNMENT

WHEREAS, WE,

1. **Srinivasa Rao ERAVELLI**, a citizen of the **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. **Sitaramanjaneyulu KANAMARLAPUDI**, 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**,
3. **Rohit KAPOOR**, a citizen of the **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. **Sivaram Srivenkata PALAKODETY**, 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**,
5. **Venkata Ramanan VENKATACHALAM JAYARAMAN**, a citizen of **India**, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of **Del Mar, CA**,
6. **Murtuza Taheri CHHATRIWALA**, 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**,
7. **Sumanth GOVINDAPPA**, 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**,
8. **Pamela Ann Cereck**, a citizen of the **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**,

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 **OUT-OF-SYNCHRONIZATION DETECTION AND CORRECTION DURING COMPRESSION** (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-
PATENT
REEL: 033530 FRAME: 0524

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). 14/312,423 filed **June 23, 2014**, Qualcomm Reference No. 135212, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/891,314 filed **October 15, 2013**, Qualcomm Reference No. 140254P1, 61/887,795, filed **October 07, 2013**, Qualcomm Reference No. 140129P1, 61/882,429, filed **September 25, 2013**, Qualcomm Reference No. 135238P1, 61/881,602, filed **September 24, 2013**, Qualcomm Reference No. 135212P1, and 61/881,308, filed **September 23, 2013**, Qualcomm Reference No. 135186P1 (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;

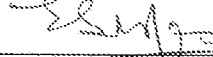
AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, 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 Hyderabad, on July 15, 2014 
LOCATION DATE Srinivasa Rao ERAVELLI

Done at _____, on _____
LOCATION DATE Sitaramanjaneyulu
KANAMARLAPUDI

Done at _____, on _____
LOCATION DATE Rohit KAPOOR

Done at _____, on _____
LOCATION DATE Sivaram Srivenkata
PALAKODETY

Done at _____, on _____
LOCATION DATE Venkata Ramanan
VENKATACHALAM
JAYARAMAN

Done at _____, on _____
LOCATION DATE Murtuza Taheri
CHHATRIWALA

Done at _____, on _____
LOCATION DATE Sumanth GOVINDAPPA

Done at _____, on _____
LOCATION DATE Pamela Ann CERECK

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

Srinivasa Rao ERAVELLI

Done at SAN DIEGO, on 07/21/14
LOCATION DATE

Sitaramanjanyulu
KANAMARLAPUDI

Done at _____, on _____
LOCATION DATE

Rohit KAPOOR

Done at _____, on _____
LOCATION DATE

Sivaram Srivenkata
PALAKODETY

Done at _____, on _____
LOCATION DATE

Venkata Ramanan
VENKATACHALAM
JAYARAMAN

Done at _____, on _____
LOCATION DATE

Murtuza Taheri
CHHATRIWALA

Done at _____, on _____
LOCATION DATE

Sumanth GOVINDAPPA

Done at _____, on _____
LOCATION DATE

Pamela Ann CERECK

PATENT

QUALCOMM Ref. No. 135212

Page 4 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 _____, on _____
LOCATION DATE Srinivasa Rao ERAVELLI

Done at _____, on _____
LOCATION DATE Sitaramanjaneyulu
KANAMARLAPUDI

Done at San Diego, on JULY 31/2014
LOCATION DATE Rohit KAPOOR

Done at _____, on _____
LOCATION DATE Sivaram Srivenkata
PALAKODETY

Done at _____, on _____
LOCATION DATE Venkata Ramanan
VENKATACHALAM
JAYARAMAN

Done at _____, on _____
LOCATION DATE Murtuza Taheri
CHHATRIWALA

Done at _____, on _____
LOCATION DATE Sumanth GOVINDAPPA

Done at _____, on _____
LOCATION DATE Pamela Ann CERECK

PATENT**REEL: 033530 FRAME: 0529**


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 Srinivasa Rao ERAVELLI

Done at _____, on _____
LOCATION DATE Sitaramanjaneyulu
KANAMARLAPUDI

Done at _____, on _____
LOCATION DATE Rohit KAPOOR

Done at San Diego, CA, on 07/14/2014
LOCATION DATE 
Sivaram Srivenkata
PALAKODETY

Done at _____, on _____
LOCATION DATE Venkata Ramanan
VENKATACHALAM
JAYARAMAN

Done at _____, on _____
LOCATION DATE Murtuza Taheri
CHHATRIWALA

Done at _____, on _____
LOCATION DATE Sumanth GOVINDAPPA

Done at _____, on _____
LOCATION DATE Pamela Ann CERECK

PATENT

QUALCOMM Ref. No. 135212

Page 4 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 _____, on _____
LOCATION DATE **Srinivasa Rao ERAVELLI**

Done at _____, on _____
LOCATION DATE **Sitaramanjaneyulu
KANAMARLAPUDI**

Done at _____, on _____
LOCATION DATE **Rohit KAPOOR**

Done at _____, on _____
LOCATION DATE **Sivaram Srivenkata
PALAKODETY**

Done at 5775 MARGUERITE BL.
SAN DIEGO, CA, on 14-JULY-2014
LOCATION DATE **Venkata Ramanan
VENKATACHALAM
JAYARAMAN**

Done at _____, on _____
LOCATION DATE **Murtuza Taheri
CHHATRIWALA**

Done at _____, on _____
LOCATION DATE **Sumanth GOVINDAPPA**

Done at _____, on _____
LOCATION DATE **Pamela Ann CERECK**

PATENT**REEL: 033530 FRAME: 0531**

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.

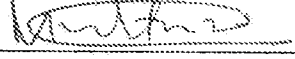
Done at _____, on _____
LOCATION DATE Srinivasa Rao ERAVELLI

Done at _____, on _____
LOCATION DATE Sitaramanjaneyulu
KANAMARLAPUDI

Done at _____, on _____
LOCATION DATE Rohit KAPOOR

Done at _____, on _____
LOCATION DATE Sivaram Srivenkata
PALAKODETY

Done at _____, on _____
LOCATION DATE Venkata Ramanan
VENKATACHALAM
JAYARAMAN

Done at San Diego, on 7/10/2014
LOCATION DATE 
Murtuza Taheri
CHHATRIWALA

Done at _____, on _____
LOCATION DATE Sumanth GOVINDAPPA

Done at _____, on _____
LOCATION DATE Pamela Ann CERECK

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 Srinivasa Rao ERAVELLI

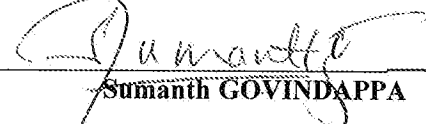
Done at _____, on _____
LOCATION DATE Sitaramanjaneyulu
KANAMARLAPUDI

Done at _____, on _____
LOCATION DATE Rohit KAPOOR

Done at _____, on _____
LOCATION DATE Sivaram Srivenkata
PALAKODETY

Done at _____, on _____
LOCATION DATE Venkata Ramanan
VENKATACHALAM
JAYARAMAN

Done at _____, on _____
LOCATION DATE Murtuza Taheri
CHHATRIWALA

Done at San Diego, on 08/01/2016
LOCATION DATE 
Sumanth GOVINDAPPA

Done at _____, on _____
LOCATION DATE Pamela Ann CERECK

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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Done at _____, on _____
LOCATION DATE Srinivasa Rao ERAVELLI

Done at _____, on _____
LOCATION DATE Sitaramanjaneyulu
KANAMARLAPUDI

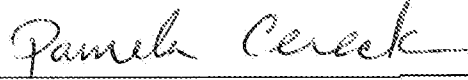
Done at _____, on _____
LOCATION DATE Rohit KAPOOR

Done at _____, on _____
LOCATION DATE Sivaram Srivenkata
PALAKODETY

Done at _____, on _____
LOCATION DATE Venkata Ramanan
VENKATACHALAM
JAYARAMAN

Done at _____, on _____
LOCATION DATE Murtuza Taheri
CHHATRIWALA

Done at _____, on _____
LOCATION DATE Sumanth GOVINDAPPA

Done at San Diego, CA, on 07-11-2014
LOCATION DATE 
Pamela Ann CERECK