

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT2703994

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>ARUN AVUDAINAYAGAM</td><td>12/18/2013</td></tr><tr><td>TREINA CRESSE</td><td>12/19/2013</td></tr><tr><td>MANJUNATH ANANDARAMA KRISHNAM</td><td>12/19/2013</td></tr><tr><td>EHAB TAHIR</td><td>12/17/2013</td></tr></tbody></table>		Name	Execution Date	ARUN AVUDAINAYAGAM	12/18/2013	TREINA CRESSE	12/19/2013	MANJUNATH ANANDARAMA KRISHNAM	12/19/2013	EHAB TAHIR	12/17/2013
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MANJUNATH ANANDARAMA KRISHNAM	12/19/2013										
EHAB TAHIR	12/17/2013										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>QUALCOMM INCORPORATED</td></tr><tr><td>Street Address:</td><td>5775 MOREHOUSE DRIVE</td></tr><tr><td>City:</td><td>SAN DIEGO</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>92121</td></tr></table>		Name:	QUALCOMM INCORPORATED	Street Address:	5775 MOREHOUSE DRIVE	City:	SAN DIEGO	State/Country:	CALIFORNIA	Postal Code:	92121
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PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>14063931</td></tr></tbody></table>		Property Type	Number	Application Number:	14063931						
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Application Number:	14063931										
CORRESPONDENCE DATA											
Fax Number: (281)754-4914											
Phone: 2817580025											
Email: kbremer@delizogilliam.com											
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name: PAIGE P DELIZIO											
Address Line 1: 15201 MASON RD.											
Address Line 2: SUITE 1000-312											
Address Line 4: CYPRESS, TEXAS 77433											
ATTORNEY DOCKET NUMBER:	118.133502										
NAME OF SUBMITTER:	KATARINA BREMER										

Signature:	/Katarina Bremer/
Date:	01/29/2014
<p><b>Total Attachments: 12</b></p> <p>source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page1.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page2.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page3.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page4.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page5.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page6.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page7.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page8.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page9.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page10.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page11.tif source=133502_SIGNED_ASSIGNMENT_12-23-2013_8081309_1#page12.tif</p>	

**ASSIGNMENT**

WHEREAS, WE,

1. **Arun Avudainayagam**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Gainesville, FL
2. **Treina Cresse**, 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 Orlando, FL
3. **Manjunath Anandarama Krishnam**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Jose, CA
4. **Ehab Tahir**, a citizen of Canada, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Mississauga, Canada

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 **ESTIMATING TONE MAPS IN A COMMUNICATION NETWORK** (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).

14/063,931 filed Oct 25, 2013, Qualcomm Reference No. 133502

and all provisional applications relating thereto,

(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;

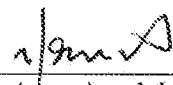
AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, 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.

**PATENT**

QUALCOMM Ref. No. 133502

Page 3 of 3

Done at Ocala, FL, on Dec 18, 2013   
LOCATION DATE Arun Avudainayagam

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Treina Cresse

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Manjunath Anandarama Krishnam

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Ehab Tahir

**PATENT**

**REEL: 032081 FRAME: 0570**

**ASSIGNMENT**

WHEREAS, WE,

1. **Arun Avudainayagam**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Gainesville, FL
2. **Treina Cresse**, 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 Orlando, FL
3. **Manjunath Anandarama Krishnam**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Jose, CA
4. **Ehab Tahir**, a citizen of Canada, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Mississauga, Canada

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 **ESTIMATING TONE MAPS IN A COMMUNICATION NETWORK** (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).

14/063,931 filed Oct 25, 2013, Qualcomm Reference No. 133502

and all provisional applications relating thereto,

(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 \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Arun Avudainayagam

Done at Orlando, FL, on 12/19/2013  
LOCATION DATE Treina Cresse

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Manjunath Anandarama Krishnam

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Ehab Tahir



## ASSIGNMENT

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14/063,931 filed Oct 25, 2013, Qualcomm Reference No. 133502

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PATENT

QUALCOMM Ref. No. 133502

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Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Arun Avudainayagam

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Treina Cresse

Done at San Jose CA, on 12/19/2013  
LOCATION DATE K. A. Manjunath  
Manjunath Anandarama Krishnam

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Ehab Tahir

PATENT

REEL: 032081 FRAME: 0576

**ASSIGNMENT**

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Done at \_\_\_\_\_, on \_\_\_\_\_  
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Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Treina Cresse

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Manjunath Anandarama Krishnam

Done at Toronto, on Dec 17 2013  
LOCATION DATE   
Ehab Tahir