

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Christopher Paul Frascati</td> <td>09/05/2013</td> </tr> <tr> <td>Murat Balci</td> <td>09/05/2013</td> </tr> <tr> <td>Avinash Seetharamaiah</td> <td>09/05/2013</td> </tr> <tr> <td>Andrew Evan Gruber</td> <td>08/29/2013</td> </tr> <tr> <td>Alexei Vladimirovich Bourd</td> <td>08/30/2013</td> </tr> </tbody> </table>		Name	Execution Date	Christopher Paul Frascati	09/05/2013	Murat Balci	09/05/2013	Avinash Seetharamaiah	09/05/2013	Andrew Evan Gruber	08/29/2013	Alexei Vladimirovich Bourd	08/30/2013
Name	Execution Date												
Christopher Paul Frascati	09/05/2013												
Murat Balci	09/05/2013												
Avinash Seetharamaiah	09/05/2013												
Andrew Evan Gruber	08/29/2013												
Alexei Vladimirovich Bourd	08/30/2013												
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>92121-1714</td> </tr> </table>		Name:	QUALCOMM Incorporated	Street Address:	5775 Morehouse Drive	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121-1714		
Name:	QUALCOMM Incorporated												
Street Address:	5775 Morehouse Drive												
City:	San Diego												
State/Country:	CALIFORNIA												
Postal Code:	92121-1714												
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>14023170</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14023170								
Property Type	Number												
Application Number:	14023170												
CORRESPONDENCE DATA													
<p>Fax Number: 6517351102 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 651 735 1100 Email: pairdocketing@ssiiplaw.com Correspondent Name: Shumaker & Sieffert, P. A. Address Line 1: 1625 Radio Drive, Suite 300 Address Line 4: Woodbury, MINNESOTA 55125</p>													
ATTORNEY DOCKET NUMBER:	1212-532US01												
NAME OF SUBMITTER:	Susan J. Daly												
Signature:	/Susan J. Daly/												

OP \$40.00 14023170

Date:

09/10/2013

Total Attachments: 5

source=131926_Assignment#page1.tif

source=131926_Assignment#page2.tif

source=131926_Assignment#page3.tif

source=131926_Assignment#page4.tif

source=131926_Assignment#page5.tif

ASSIGNMENT

WHEREAS, WE,

1. **Christopher Paul Frascati**, 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 **Oviedo, FL**,
2. **Murat Balci**, a citizen of **Turkey**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**, and a resident of **Orlando, FL**,
3. **Avinash Seetharamaiah**, 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 **Chuluota, FL**,
4. **Andrew Evan Gruber**, 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 **Arlington, MA**,
5. **Alexei Vladimirovich Bourd**, 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 **FAULT-TOLERANT PREEMPTION MECHANISM AT ARBITRARY CONTROL POINTS FOR GRAPHICS PROCESSING** (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). 14/023,170 filed Sept. 10, 2013, Qualcomm Reference No. **131926**, 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 Orlando, on 9/5/2013
LOCATION DATE



Christopher Paul Frascati

Done at Orlando, on 9/5/2013
LOCATION DATE



Murat Balci

Done at Orlando, on 09/05/2013
LOCATION DATE



Avinash Seetharamaiah

Done at _____, on _____
LOCATION DATE

Andrew Evan Gruber

Done at _____, on _____
LOCATION DATE

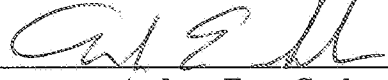
Alexei Vladimirovich Bourd

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 Christopher Paul Frascati

Done at _____, on _____
LOCATION DATE Murat Baici

Done at _____, on _____
LOCATION DATE Avinash Seetharamaiah

Done at Sorbuso, MA, on Aug 29, 2013
LOCATION DATE 
Andrew Evan Gruber

Done at _____, on _____
LOCATION DATE Alexei Vladimirovich Bourd

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 Christopher Paul Frascati

Done at _____, on _____
LOCATION DATE Murat Balci

Done at _____, on _____
LOCATION DATE Avinash Seetharamaiah

Done at _____, on _____
LOCATION DATE Andrew Evan Gruber

Done at San Diego, CA, on 8/30/2013
LOCATION DATE 
Alexei Vladimirovich Bourd