

PATENT ASSIGNMENT

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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>Joel Sole Rojals</td> <td>12/15/2011</td> </tr> <tr> <td>Muhammed Zeyd Coban</td> <td>12/15/2011</td> </tr> <tr> <td>Yunfei Zheng</td> <td>12/14/2011</td> </tr> <tr> <td>Rajan Laxman Joshi</td> <td>12/15/2011</td> </tr> <tr> <td>Marta Karczewicz</td> <td>12/15/2011</td> </tr> </tbody> </table>		Name	Execution Date	Joel Sole Rojals	12/15/2011	Muhammed Zeyd Coban	12/15/2011	Yunfei Zheng	12/14/2011	Rajan Laxman Joshi	12/15/2011	Marta Karczewicz	12/15/2011
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Marta Karczewicz	12/15/2011												
RECEIVING PARTY DATA													
Name:	QUALCOMM Incorporated												
Street Address:	5775 Morehouse Drive												
City:	San Diego												
State/Country:	CALIFORNIA												
Postal Code:	92121-1714												
PROPERTY NUMBERS Total: 5													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13303015</td> </tr> <tr> <td>Application Number:</td> <td>61419740</td> </tr> <tr> <td>Application Number:</td> <td>61426426</td> </tr> <tr> <td>Application Number:</td> <td>61426360</td> </tr> <tr> <td>Application Number:</td> <td>61426372</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13303015	Application Number:	61419740	Application Number:	61426426	Application Number:	61426360	Application Number:	61426372
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Application Number:	61419740												
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Application Number:	61426372												
CORRESPONDENCE DATA													
Fax Number:	(651)735-1102												
Phone:	651 735 1100												
Email:	tahti@ssiplaw.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	Shumaker & Sieffert, P. A.												
Address Line 1:	1625 Radio Drive, Suite 300												

CH \$200.00 13303015

Address Line 4: Woodbury, MINNESOTA 55125

ATTORNEY DOCKET NUMBER:

1010-761US01

NAME OF SUBMITTER:

Kayla A. Tahti

Total Attachments: 6

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ASSIGNMENT

WHEREAS, WE,

1. **Joel Sole Rojas**, a citizen of **Spain**, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of **La Jolla, CA**,
2. **Muhammed Zeyd Coban**, a citizen of **The United States of America**, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of **Carlsbad, CA**,
3. **Yunfei Zheng**, a citizen of **China**, having a mailing address located at 20631 Forge Way Suite 279, Cupertino, California 95014, and a resident of **Cupertino, CA**,
4. **Rajan Laxman Joshi**, a citizen of **The United States of America**, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of **San Diego, CA**,
5. **Marta Karczewicz**, a citizen of **The United States of America**, having a mailing address located at 5775 Morehouse Drive, San Diego, California 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 **CODING THE POSITION OF A LAST SIGNIFICANT COEFFICIENT WITHIN A VIDEO BLOCK BASED ON A SCANNING ORDER FOR THE BLOCK IN VIDEO CODING** (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). **13/303,015** filed **November 22, 2011**, Qualcomm Reference No. **110721**, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **61/419,740**, filed **December 3, 2010**, Qualcomm

Reference No. **110568P1**, U.S. Provisional Application No(s). **61/426,426**, filed **December 22, 2010**, Qualcomm Reference No. **110721P1**, U.S. Provisional Application No(s). **61/426,360**, filed **December 22, 2010**, Qualcomm Reference No. **110710P1**, U.S. Provisional Application No(s). **61/426,372**, filed **December 22, 2010**, Qualcomm Reference No. **110714P1**, (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 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 SAN DIEGO, on 12/15/2011 
LOCATION DATE **Joel Sole Rojas**

Done at SAN DIEGO on 12/15/2011 
LOCATION DATE **Muhammed Zeyd Coban**

Done at _____, on _____
LOCATION DATE **Yunfei Zheng**

Done at San Diego, CA, on 15th Dec. 2011 Rajan Laxman Joshi
LOCATION DATE **Rajan Laxman Joshi**

Done at San Diego, CA on 15th Dec 2011 Marta Karczewicz
LOCATION DATE **Marta Karczewicz**

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LOCATION DATE **Joel Sole Rojals**

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LOCATION DATE **Muhammed Zeyd Coban**

Done at San Jose, CA, on 12/14/2011
LOCATION DATE 
Yunfei Zheng

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Done at _____, on _____
LOCATION DATE **Marta Karczewicz**