

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the priority information missing on previously recorded on Reel 018406 Frame 0119. Assignor(s) hereby confirms the this application claims priority to the following: 11/315,399, filed 12/21/2005 and 60/729,017, filed 10/21/2005..										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yen-Chi Lee</td> <td>12/20/2012</td> </tr> <tr> <td>Christopher Gerard Lott</td> <td>01/07/2013</td> </tr> <tr> <td>Peerapol Tinnakomsrisuphap</td> <td>12/18/2012</td> </tr> <tr> <td>Vikram Gupta</td> <td>12/19/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yen-Chi Lee	12/20/2012	Christopher Gerard Lott	01/07/2013	Peerapol Tinnakomsrisuphap	12/18/2012	Vikram Gupta	12/19/2012
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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>11454475</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11454475						
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Application Number:	11454475										
CORRESPONDENCE DATA											
Fax Number: 8586582502 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 858-845-4265 Email: us-docketing@qualcomm.com Correspondent Name: QUALCOMM INCORPORATED Address Line 1: 5775 MOREHOUSE DR. Address Line 4: SAN DIEGO, CALIFORNIA 92121											
ATTORNEY DOCKET NUMBER:	051126B1										
NAME OF SUBMITTER:	Ricki Howell										

CH \$40.00 11454475

**Total Attachments: 16**

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FORM PTO-1619A/B

700292347

U.S. Department of Commerce  
Patent and Trademark Office  
PATENTRECORDATION FORM COVER SHEET  
PATENTS ONLYCustomer No.: 23696  
Attorney Docket No.: 051126B1

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

## Submission Type

- ☒ New  
☐ Resubmission (Non-Recordation)  
Document ID No.  
☐ Correction of PTO Error  
Reel No. Frame No.  
☐ Corrective Document  
Reel No. Frame No.

## Conveyance Type

- ☒ Assignment  
☐ Change of Name  
☐ License  
☐ Merger  
☐ Security Agreement  
☐ Other: \_\_\_\_\_

## Conveying Party(ies)

NAME

☐ Mark if additional names are attached

1. Yen-Chi Lee
2. Christopher Gerard Lott
3. Peerapol Tinnakornsisuphap
4. Vikram Gupta

## EXECUTION DATE

Month, Day, Year (MMDDYYYY)

06/12/2006

06/12/2006

06/12/2006

06/12/2006

## Receiving Party

Name: QUALCOMM Incorporated  
A Delaware Corporation

Address (Street number and name): 5775 Morehouse Drive

Address (City, State, Zip Code): San Diego, California, 92121-1714

☐ Mark if additional names are attached

## Correspondent Name and Address

Name: QUALCOMM Incorporated  
Attn: Patent Department

Address: 5775 Morehouse Drive

Address: San Diego, California 92121-1714

Telephone Number: (858) 651-4470

Facsimile: (858) 658-2502

Pages (Enter the total number of pages including the Recordation Sheet)

Total number of pages: 3

## Application Number(s) or Patent Number(s)

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## Patent Application Number(s):

1. 11/454,475 filed 6/15/2006
- 2.
- 3.
- 4.

## Patent Number(s):

- 1.
- 2.
- 3.
- 4.

## Patent Cooperation Treaty (PCT)

(Enter only if a U.S. Application Number has not been assigned)

1. PCT/

3. PCT/

2. PCT/

4. PCT/

## Number of Properties (Enter the total number of properties involved)

Total number of properties: 1

## Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$40.00

Method of Payment: ☐ Enclosed ☒ Deposit Account(Enter for payment by deposit account or if additional fees can be charged to the account.  
for fee processing)

Deposit Account Number: 17-0026

Authorization to charge additional fees: ☒ Yes ☐ No

## Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized as indicated herein.

Date: 10/17/2006

Name: Yen Chi Lee, Reg. No. 48,820  
(858) 651-5527

FOR OFFICE USE ONLY

**ASSIGNMENT**

WHEREAS, WE,

1. **Yen-Chi Lee**, a citizen of **Taiwan**, having a mailing address located at **8280 Stage Coach Place, San Diego, CA 92129-4614** and a resident of **San Diego, CA**,
2. **Christopher Gerard Lott**, 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. **Peerapol Tinnakornsrisuphap**, a citizen of **Thailand**, having a mailing address located at **11101 Caminito Arcada, San Diego, CA, 92131-3681** and a resident of **San Diego, CA**,
4. **Vikram Gupta**, a citizen of **India**, having a mailing address located at **4734 Caminito Lapiz, San Diego, CA 92130-3405** 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 **REVERSE LINK LOWER LAYER ASSISTED VIDEO ERROR CONTROL** (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). **11/454,475** filed **June 15, 2006**, QUALCOMM Reference No. **051126B1**, and all provisional applications relating thereto, together with U.S. Application No(s). **11/315,399**, filed **December 21, 2005**, QUALCOMM Reference No. **051126**, together with U.S. Provisional Application No(s). **60/729,017**, filed **October 21, 2005**, QUALCOMM Reference No. **051126P1**, (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 Santa Clara, CA, on 12/20/2012 Yen-Chi Lee  
LOCATION DATE

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Christopher Gerard Lott

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Peerapol Tinnakornsrisuphap

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Vikram Gupta

**ASSIGNMENT**

WHEREAS, WE,

1. **Yen-Chi Lee**, a citizen of **Taiwan**, having a mailing address located at **8280 Stage Coach Place, San Diego, CA 92129-4614** and a resident of **San Diego, CA**,
2. **Christopher Gerard Lott**, 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. **Peerapol Tinnakornsrisuphap**, a citizen of **Thailand**, having a mailing address located at **11101 Caminito Arcada, San Diego, CA, 92131-3681** and a resident of **San Diego, CA**,
4. **Vikram Gupta**, a citizen of **India**, having a mailing address located at **4734 Caminito Lapiz, San Diego, CA 92130-3405** 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 **REVERSE LINK LOWER LAYER ASSISTED VIDEO ERROR CONTROL** (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). **11/454,475** filed **June 15, 2006**, QUALCOMM Reference No. **051126B1**, and all provisional applications relating thereto, together with U.S. Application No(s). **11/315,399**, filed **December 21, 2005**, QUALCOMM Reference No. **051126**, together with U.S. Provisional Application No(s). **60/729,017**, filed **October 21, 2005**, QUALCOMM Reference No. **051126P1**, (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;



**PATENT**  
QUALCOMM Ref. No. **051126B1**  
Page 3 of 3

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 \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Yen-Chi Lee

Done at San Diego, CA, on 1/7/13  
LOCATION DATE   
Christopher Gerard Lott

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Peerapol Tinnakornsriruphap

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Vikram Gupta

## ASSIGNMENT

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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 **REVERSE LINK LOWER LAYER ASSISTED VIDEO ERROR CONTROL** (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). **11/454,475** filed **June 15, 2006**, QUALCOMM Reference No. **051126B1**, and all provisional applications relating thereto, together with U.S. Application No(s). **11/315,399**, filed **December 21, 2005**, QUALCOMM Reference No. **051126**, together with U.S. Provisional Application No(s). **60/729,017**, filed **October 21, 2005**, QUALCOMM Reference No. **051126P1**, (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;

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Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Yen-Chi Lee

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Christopher Gerard Lott

Done at San Diego, on 12/18/2012   
LOCATION DATE Peerapol Tinnakornsriruphap

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Vikram Gupta

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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.

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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;

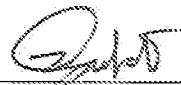
AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, 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 \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Yen-Chi Lee

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Christopher Gerard Lott

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Peerapol Tinnakornsrisuphap

Done at SAN DIEGO, on 12/19/12  
LOCATION DATE   
Vikram Gupta