

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4048420

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                     |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                         |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                    |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>              |
| ROBERT HOWARD KIMBALL                                                                                                                                                                           | 08/13/2015                         |
| ERIC MARTIN HALL                                                                                                                                                                                | 08/11/2015                         |
| JEFFREY ALEXANDER LEVIN                                                                                                                                                                         | 08/11/2015                         |
| MICHAEL-DAVID NAKAYOSHI CANOY                                                                                                                                                                   | 08/12/2015                         |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                    |
| <b>Name:</b>                                                                                                                                                                                    | QUALCOMM TECHNOLOGIES, INC.        |
| <b>Street Address:</b>                                                                                                                                                                          | 5775 MOREHOUSE DRIVE               |
| <b>City:</b>                                                                                                                                                                                    | SAN DIEGO                          |
| <b>State/Country:</b>                                                                                                                                                                           | CALIFORNIA                         |
| <b>Postal Code:</b>                                                                                                                                                                             | 92121                              |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                    |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                      |
| Application Number:                                                                                                                                                                             | 15090487                           |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                    |
| <b>Fax Number:</b>                                                                                                                                                                              | (310)201-5219                      |
| <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> |                                    |
| <b>Phone:</b>                                                                                                                                                                                   | 310.277.7200                       |
| <b>Email:</b>                                                                                                                                                                                   | Qualcomm-USPTO@seyfarth.com        |
| <b>Correspondent Name:</b>                                                                                                                                                                      | SEYFARTH SHAW LLP                  |
| <b>Address Line 1:</b>                                                                                                                                                                          | 2029 CENTURY PARK EAST, SUITE 3500 |
| <b>Address Line 4:</b>                                                                                                                                                                          | LOS ANGELES, CALIFORNIA 90067      |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 147495C1                           |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | CORNELL D. CROSBY                  |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Cornell D. Crosby/                |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 09/12/2016                         |
| <b>Total Attachments: 12</b>                                                                                                                                                                    |                                    |
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source=147495C1\_Assignment\_AsFiled\_12September2016#page12.tif

## ASSIGNMENT

WHEREAS, WE,

1. **Robert Howard KIMBALL**, a citizen of 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,
2. **Eric Martin HALL**, a citizen of 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,
3. **Jeffrey Alexander LEVIN**, a citizen of 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,
4. **Paul BENDER**, a citizen of 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. **Michael-David Nakayoshi CANOY**, a citizen of 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 **APPARATUS AND METHODS FOR DEVELOPING PARALLEL NETWORKS USING A GENERAL PURPOSE PROGRAMMING LANGUAGE** (collectively the “INVENTIONS”) for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Technologies Inc. (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). **13/875,234**, filed **May 1, 2013**, Qualcomm

Reference No. **147495**, 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;

**PATENT**

QUALCOMM Ref. No. 147495

Page 3 of 3

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at San Diego, on 8/18/2015  
LOCATION DATE

  
Robert Howard KIMBALL

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

\_\_\_\_\_  
Eric Martin HALL

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

\_\_\_\_\_  
Jeffrey Alexander LEVIN

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

\_\_\_\_\_  
Paul BENDER

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

\_\_\_\_\_  
Michael-David Nakayoshi CANOY

**PATENT**

**REEL: 039706 FRAME: 0711**

## ASSIGNMENT

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5. **Michael-David Nakayoshi CANOY**, a citizen of 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 **APPARATUS AND METHODS FOR DEVELOPING PARALLEL NETWORKS USING A GENERAL PURPOSE PROGRAMMING LANGUAGE** (collectively the “INVENTIONS”) for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Technologies Inc. (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). **13/875,234**, filed **May 1, 2013**, Qualcomm

Reference No. **147495**, 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

Robert Howard KIMBALL

Done at San Diego, CA, on 8/11/2015  
LOCATION DATE



Eric Martin HALL

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

Jeffrey Alexander LEVIN

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

Paul BENDER

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

Michael-David Nakayoshi CANOY

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Reference No. **147495**, 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;

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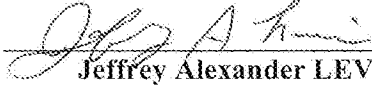
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AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Robert Howard KIMBALL

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Eric Martin HALL

Done at San Diego CA, on 11 AUG 2015  
LOCATION DATE  Jeffrey Alexander LEVIN

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Paul BENDER

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Michael-David Nakayoshi CANOY

## ASSIGNMENT

WHEREAS, WE,

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LOCATION DATE Eric Martin HALL

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Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Paul BENDER

Done at San Diego, on 8/12/15  
LOCATION DATE  Michael-David Nakayoshi CANOY