

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>Etan Gur Cohen</td> <td>12/19/2011</td> </tr> <tr> <td>Yili Zhao</td> <td>12/19/2011</td> </tr> <tr> <td>Michael B. Ryan</td> <td>12/19/2011</td> </tr> <tr> <td>Hai Shalom</td> <td>12/19/2011</td> </tr> <tr> <td>Anthony James Cowan</td> <td>12/20/2011</td> </tr> </tbody> </table>		Name	Execution Date	Etan Gur Cohen	12/19/2011	Yili Zhao	12/19/2011	Michael B. Ryan	12/19/2011	Hai Shalom	12/19/2011	Anthony James Cowan	12/20/2011
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Anthony James Cowan	12/20/2011												
RECEIVING PARTY DATA													
Name:	Qualcomm Atheros, Inc.												
Street Address:	1700 Technology Drive												
City:	San Jose												
State/Country:	CALIFORNIA												
Postal Code:	95110												
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>13301576</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13301576								
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Application Number:	13301576												
CORRESPONDENCE DATA													
Fax Number:	(512)853-8801												
Phone:	5128538800												
Email:	jmiranda@intprop.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:	MHKKG/Qualcomm Atheros, Inc.												
Address Line 1:	P.O. Box 398												
Address Line 4:	Austin, TEXAS 78767-0396												
ATTORNEY DOCKET NUMBER:	6221-19700												
NAME OF SUBMITTER:	Jeffrey C. Hood												

CH \$40.00 13301576

Total Attachments: 4

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ASSIGNMENT

WHEREAS, WE,

1. **Efan G. Cohen**, a citizen of the United States of America, having a mailing address located at 1700 Technology Drive, San Jose, CA 95110 and a resident of San Francisco, California,
2. **Yili Zhao**, a citizen of the United States of America, having a mailing address located at 1700 Technology Drive, San Jose, CA 95110 and a resident of Fremont, California
3. **Michael B. Ryan**, a citizen of the United States of America, having a mailing address located at 1700 Technology Drive, San Jose, CA 95110 and resident of Los Gatos, California,
4. **Hai Shalom**, a citizen of Israel, having a mailing address located at 1700 Technology Drive, San Jose, CA 95110 and resident of Cupertino, California,
5. **Anthony James Cowan**, a citizen of the United States of America, having a mailing address located at 1700 Technology Drive, San Jose, CA 95110 and resident of Ocala, Florida,

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

**Hybrid Networking Path Selection and Load Balancing to Provide Robust
High Bandwidth Availability in Home Networks**

(collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, Qualcomm Atheros, Inc. (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 1700 Technology Drive, San Jose, California 95110, 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). 13/301,576 filed November 21, 2011, Qualcomm Reference No. 120025, (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.

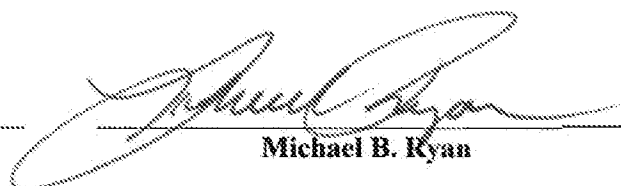
Done at SAN JOSE, on 12/19/2011
LOCATION DATE


Etan Gur Cohen

Done at SAN JOSE, on 12/19/2011
LOCATION DATE


Yili Zhao

Done at SAN JOSE, on 12/19/11
LOCATION DATE


Michael B. Ryan

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Hai Shalom

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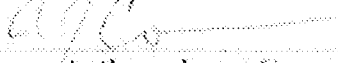
Anthony James Cowan

Done at _____, on _____
LOCATION DATE Eran Gur Cohen

Done at _____, on _____
LOCATION DATE Yili Zhao

Done at _____, on _____
LOCATION DATE Michael B. Ryan

Done at _____, on _____
LOCATION DATE Hai Shalom

Done at Beijing, CC, on 10 Dec 2011
LOCATION DATE 
Anthony James Cowan