

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Saiyiu Duncan Ho</td> <td>09/18/2012</td> </tr> <tr> <td>Bibhu Prasad Mohanty</td> <td>09/18/2012</td> </tr> <tr> <td>Etan Gur Cohen</td> <td>09/18/2012</td> </tr> <tr> <td>Rahul Malik</td> <td>09/05/2012</td> </tr> <tr> <td>Randall Coleman Gellens</td> <td>09/04/2012</td> </tr> <tr> <td>Rohit Kapoor</td> <td>09/13/2012</td> </tr> </tbody> </table>		Name	Execution Date	Saiyiu Duncan Ho	09/18/2012	Bibhu Prasad Mohanty	09/18/2012	Etan Gur Cohen	09/18/2012	Rahul Malik	09/05/2012	Randall Coleman Gellens	09/04/2012	Rohit Kapoor	09/13/2012
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<table border="1"> <tr> <td>Name:</td> <td>Qualcomm Atheros, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1700 Technology Drive</td> </tr> <tr> <td>City:</td> <td>San Jose</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95110</td> </tr> </table>		Name:	Qualcomm Atheros, Inc.	Street Address:	1700 Technology Drive	City:	San Jose	State/Country:	CALIFORNIA	Postal Code:	95110				
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CORRESPONDENCE DATA															
Fax Number:	2817544914														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	281-758-0025														
Email:	btalash@deliziogilliam.com														
Correspondent Name:	Andrew DeLizio														
Address Line 1:	15201 Mason Road														
Address Line 2:	Suite 1000-312														
Address Line 4:	Cypress, TEXAS 77433														
ATTORNEY DOCKET NUMBER:	113258														

OP \$40.00 13599715

NAME OF SUBMITTER:

Becky Talash

Total Attachments: 8

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ASSIGNMENT

WHEREAS, WE,

1. **Saiyu Duncan HO**, a citizen of Canada, having a mailing address located at 1700 Technology Drive, San Jose, California 95110, and a resident of San Diego, California,
2. **Bibhu Prasad MOHANTY**, a citizen of United States of America, having a mailing address located at 1700 Technology Drive, San Jose, California 95110, and a resident of San Diego, California,
3. **Etan Gur COHEN**, a citizen of United States of America, having a mailing address located at 1700 Technology Drive, San Jose, California 95110, and a resident of San Francisco, California,
4. **Rahul MALIK**, a citizen of India, having a mailing address located at 1700 Technology Drive, San Jose, California 95110, and a resident of Marathahalli, Bangalore,
5. **Randall Coleman GELLENS**, a citizen of United States of America, having a mailing address located at 1700 Technology Drive, San Jose, California 95110, and a resident of San Diego, California,
6. **Rohit KAPOOR**, a citizen of India. Having a mailing address located at 1700 Technology Drive, San Jose, California 95110, and a resident of San Diego, California,

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 **TOPOLOGY DISCOVERY IN A HYBRID NETWORK** (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). 13/599,715 filed August 30, 2012, Qualcomm Reference No. 113258, and all provisional applications relating thereto, together

with U.S. Provisional Application No(s). 61/529,224, filed August 30, 2011, Qualcomm Reference No. 113258P1, (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, CA, USA, on Sept 18, 12
LOCATION DATE


Saiyiu Duncan HO

Done at _____, on _____
LOCATION DATE

Bibhu Prasad MOHANTY

Done at _____, on _____
LOCATION DATE

Etan Gur COHEN

Done at _____, on _____
LOCATION DATE

Rahul MALIK

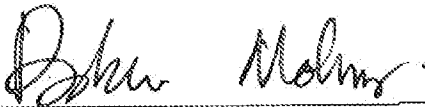
Done at _____, on _____
LOCATION DATE

Randall Coleman GELLENS

Done at _____, on _____
LOCATION DATE

Rohit KAPOOR

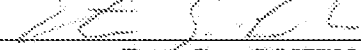
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Done at _____, on _____ LOCATION DATE	_____ Saiyu Duncan HO
Done at <u>San Diego</u> , on <u>09/18/2012</u> LOCATION DATE	 Bibhu Prasad MOHANTY
Done at _____, on _____ LOCATION DATE	_____ Etan Gur COHEN
Done at _____, on _____ LOCATION DATE	_____ Rahul MALIK
Done at _____, on _____ LOCATION DATE	_____ Randall Coleman GELLENS
Done at _____, on _____ LOCATION DATE	_____ Rohit KAPOOR

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Done at _____, on _____
LOCATION DATE Saiyiu Duncan HO

Done at _____, on _____
LOCATION DATE Bibhu Prasad MOHANTY

Done at SAN JOSE, CA, on 9/18/2012
LOCATION DATE 
Etan Gur COHEN

Done at _____, on _____
LOCATION DATE Rahul MALIK

Done at _____, on _____
LOCATION DATE Randall Coleman GELLENS


Done at _____, on _____
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Done at _____, on _____
LOCATION DATE Saiyu Duncan HO

Done at _____, on _____
LOCATION DATE Bibhu Prasad MOHANTY

Done at _____, on _____
LOCATION DATE Etan Gur COHEN

Done at Bangalore, on September 5, 2012
LOCATION DATE 
Rahul MALIK

Done at _____, on _____
LOCATION DATE Randall Coleman GELLENS

Done at _____, on _____
LOCATION DATE Rohit KAPOOR

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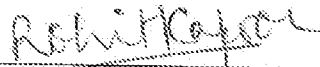
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LOCATION DATE Etan Gur COHEN

Done at _____, on _____
LOCATION DATE Rahul MALIK

Done at _____, on _____
LOCATION DATE Randall Coleman GELLENS

Done at SAN DIEGO, on 09/13/2012
LOCATION DATE 
Rohit KAPOOR