

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Qualcomm Atheros, Inc.	10/22/2012
RECEIVING PARTY DATA	
Name:	QUALCOMM Incorporated
Street Address:	5775 Morehouse Drive
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92121
PROPERTY NUMBERS Total: 69	
Property Type	Number
Patent Number:	8155140
Patent Number:	8116219
Patent Number:	7800531
Patent Number:	8279974
Patent Number:	8204451
Patent Number:	8107427
Patent Number:	8044856
Patent Number:	8255183
Patent Number:	8155612
Patent Number:	8106715
Patent Number:	7944395
Patent Number:	8203393
Patent Number:	7982549
Patent Number:	8290461
Patent Number:	8284817

OP \$2760.00 8155140

Patent Number:	8125378
Application Number:	13352433
Application Number:	12140113
Application Number:	13269778
Application Number:	13036575
Application Number:	12534996
Application Number:	11941369
Application Number:	12580709
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Application Number:	13278040
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Application Number:	13278022
Application Number:	13558305
Application Number:	13457296
Application Number:	13563977
Application Number:	13563614
Application Number:	13491317

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	534.01
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NAME OF SUBMITTER:	Nathan P. Koenig
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Total Attachments: 34

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PATENT ASSIGNMENT

WHEREAS, Qualcomm Atheros, Inc., a Delaware corporation, having a place of business located at 1700 Technology Drive, San Jose, CA 95110 (hereinafter "**ASSIGNOR**"), hereby represents and warrants that it is the sole and exclusive owner of the entire right, title, and interest in, to and under the Patent Items (as defined below).

WHEREAS, QUALCOMM Incorporated, a Delaware corporation (hereinafter "**ASSIGNEE**"), has agreed to acquire ASSIGNOR's entire right, title and interest in, to and under (i) the patents and patent applications identified in the schedule attached hereto (hereinafter "**SCHEDULE A**"), and all provisional applications relating thereto; (ii) all patents issuing on any patent applications identified in SCHEDULE A; (iii) all reissues, reexaminations, extensions, divisionals, renewals, continuations, continuations-in-part and counterparts (whether foreign or domestic) claiming priority to or based on any of the foregoing items in (i) or (ii) above, along with all patents issuing therefrom; and (iv) all inventions and improvements claimed or described in any of the foregoing items (i), (ii) or (iii) (subsections (i), (ii), (iii) and (iv) hereinafter collectively referred to as the "**Patent Items**").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR and ASSIGNEE agree as follows:

1. ASSIGNOR does acknowledge that ASSIGNOR has sold, assigned, transferred, conveyed, and delivered, and by these presents does hereby sell, assign, transfer, convey and deliver unto ASSIGNEE, its successors, legal representatives and assigns, ASSIGNOR's entire right, title and interest throughout the world in, to and under the Patent Items, including without limitation all foreign patents and any rights of priority based on or relating to the Patent Items.

2. ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States of America, and any Official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications, to issue all patents for the Patent Items to ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this Patent Assignment.

3. ASSIGNOR does acknowledge that ASSIGNOR has sold, assigned, transferred, conveyed, and delivered, and by these presents does hereby sell, assigns, transfers, conveys and delivers to ASSIGNEE, its successors, legal representatives and assigns, ASSIGNOR's entire rights of enforcement, all of ASSIGNOR's claims for damages and remedies arising out of, relating to or resulting from the Patent Items or any violation(s) thereof, whether accrued prior to the date of this Patent Assignment or hereafter, including but not limited to the right to sue for, seek, collect, recover and retain damages and any other relief arising out of or resulting from any past, present or future infringement or violation of any of the Patent Items, and all other rights, including common law rights, that ASSIGNOR may have relating to the Patent Items, including but not limited to any ongoing or prospective royalties to which ASSIGNOR may be entitled, or that ASSIGNOR may collect for any infringements of any of the Patent Items or from any settlement or agreement related to the Patent Items arising

before or after the date of this Patent Agreement, such rights to be held and enjoyed by ASSIGNEE, its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR if this Patent Assignment had not been made.

4. ASSIGNOR hereby represents and warrants that ASSIGNOR has full right, power and authority to sell, assign, transfer, convey and deliver all of the subject matter set forth herein, and hereby covenants and agrees that ASSIGNOR will communicate promptly to ASSIGNEE, its successors, legal representatives and assigns, all facts known to ASSIGNOR respecting the Patent Items, and will testify in any legal proceeding, sign all lawful papers, transfer all file histories, make diligent effort to find or reach every inventor of the Patent Items required in connection with preparation of any lawful document or proceeding relating to the Patent Items, make reasonable efforts to obtain all required signed and executed documents relating to the Patent Items from every inventor named in the Patent Items, make all rightful declarations and/or oaths and generally do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce patent protection for the Patent Items on a worldwide basis in all countries. ASSIGNOR further covenants and agrees that ASSIGNOR will wholly refrain from challenging the validity, enforceability or scope of the Patent Items, whether through opposition, reexamination and/or court proceedings.

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IN WITNESS WHEREOF, I hereunto set my hand this 22nd day of October, 2012.

Qualcomm Atheros, Inc.

By: [Signature]
Adam Tachner
Secretary, Vice President and General Counsel

State of California)
County of Santa Clara) ss.

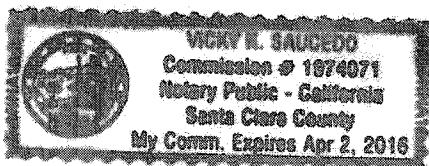
On October 22, 2012, before me, Vicky K. Saucedo, Notary Public
Date Name of Notary Public
personally appeared Adam H. Tachner
Name of Signer

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

IN WITNESS WHEREOF, acknowledged and accepted on this 22 day of October, 2012.



QUALCOMM Incorporated

By: [Signature]
Timothy F. Loomis
V.P., Patent Counsel

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

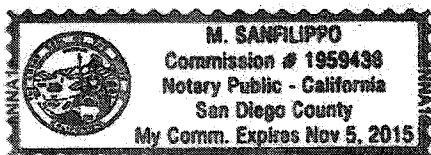
CIVIL CODE § 1189

State of California

County of SAN DIEGO

On October 29, 2012 before me, M. SANFILIPPO, NOTARY PUBLIC

personally appeared TIMOTHY F. LOOMIS



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: M. Sanfilippo

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

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Signer's Name: _____

☐ Corporate Officer — Title(s): _____

☐ Individual

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
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Signer's Name: _____

☐ Corporate Officer — Title(s): _____

☐ Individual

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
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SCHEDULE A

Patent Reference	Jurisdiction	Filed Date	Application Number	Grant Date	Patent Number
112131AU	Australia	12-Oct-2000	2000079253	15-Jul-2004	2000079253
112233AU	Australia	22-Nov-2004	2004310448	4-Nov-2010	2004310448
112233B1AU	Australia	27-Jul-2006	2006336351		
112255AU	Australia	15-Aug-1990	1990061035	12-Jul-1994	1990061035
112256AU	Australia	29-Jul-1993	1993047912	9-Jan-1997	1993047912
112258AU	Australia	21-Aug-2000	2000070637	11-Dec-2003	768374
112262AU	Australia	2-Aug-2001	2001057757	27-Jul-2006	2001057757
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112323AU	Australia	1-Apr-2010	2010232634		
111948AT	Austria	23-Mar-2001	01916721.2	15-Aug-2007	EP1275214
111978AT	Austria	2-May-2003	20030738894		
112031AT	Austria	19-Feb-2004	20040712916	18-Apr-2007	EP1595344
112133AT	Austria	12-Oct-2000	20000969580		
112233B1BR	Brazil	27-Jul-2006	PI0614124-2		
112258BR	Brazil	21-Aug-2000	PI0009118-9		
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112323CA	Canada	1-Apr-2010	2757465		
111973CN	China	6-Nov-2001	200301822091.6	6-Sep-2006	ZL200301822091.6
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111998CN	China	6-Oct-2004	200480029548.3	9-Nov-2011	ZL200480029548.3
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112006CN	China	29-Apr-2005	200510076299.X		
112011CN	China	6-Oct-2004	200480029549.8	27-Apr-2011	ZL200480029549.8
112018CN	China	5-Nov-2004	200480032623.1	21-Sep-2011	ZL200480032623.1
112019CN	China	2-Nov-2004	200480032768.1		
112020CN	China	13-Sep-2004	20048030611.5	23-Dec-2009	ZL20048030611.5
112023U1CN	China	28-Feb-2005	200510052616.4	18-May-2011	ZL200510052616.4
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112023U4CN	China	3-Mar-2005	200510053168.X	8-Sep-2010	ZL200510053168.X
112025CN	China	11-Mar-2004	200480006472.2	29-Apr-2009	ZL200480006472.2
112031CN	China	19-Feb-2004	20048007574.6		
112032CN	China	13-Aug-2004	200480033370.X	6-Apr-2011	ZL200480033370.X
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112044CN	China	12-Jan-2006	200680001955.2	13-Jun-2012	ZL200680001955.2
112049CN	China	30-May-2007	200710103789.3	18-Jul-2012	ZL200710103789.3
112052CN	China	30-Dec-2005	200510137559.X	29-Sep-2010	ZL200510137559.X

Patent Reference	Jurisdiction	Filed Date	Application Number	Grant Date	Patent Number
112055CN	China	30-Dec-2005	200510137560.2	15-Jun-2011	ZL200510137560.2
112056CN	China	12-Jan-2006	200680001954.8		
112058CN	China	12-Jan-2006	200680001953.3		
112071CN	China	1-Apr-2008	200880011208.6		
112097CN	China	26-Jun-2006	200610094684.1	13-Jun-2012	ZL200610094684.1
112107CN	China	7-Mar-2008	200880007935.5		
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112209CN2	China	4-May-2010	201080062316.3		
112233B1CN	China	27-Jul-2006	200680035267.8		
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112237CN	China	20-Apr-2011	PENDING		
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112262CN	China	6-Aug-2001	01124016.4	22-Oct-2008	ZL200101124016.4
112264CN	China	3-Aug-2001	01813873.X	26-Oct-2005	ZL01813873.X
112265CN	China	6-Aug-2001	01124017.2	16-Apr-2008	ZL01124017.2
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Patent Reference	Jurisdiction	Filed Date	Application Number	Grant Date	Patent Number
112031EPD1	European Patent	19-Feb-2004	07000478.3	15-Apr-2009	EP1780915
112032EP	European Patent	13-Aug-2004	04781289.6		
112038EP	European Patent	4-Nov-2004	04800779.3		
112065EP	European Patent	15-Mar-2007	07753228.1	26-Sep-2012	EP2002510
112066EP	European Patent	23-Jan-2008	08728163.0		
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112111EP	European Patent	15-May-2008	08755494.5		
112126EP	European Patent	10-Nov-2005	05826082.9		
112129EP	European Patent	12-Oct-2000	00989582.6	9-Apr-2008	EP1222750
112133EP	European Patent	12-Oct-2000	00989580.0	15-Aug-2007	EP1222748
112144EP	European Patent	1-Apr-2009	09726754.6		
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112255EP	European Patent	21-Aug-1990	90309129.6	12-Feb-2003	EP0419047
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112270EP	European Patent	20-Jan-2000	00909936.7	3-Nov-2010	EP1145470
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113389EP	European Patent	21-Mar-2008	08744205.9		
113390EP	European Patent	21-Mar-2008	08732696.3		
113391EP	European Patent	16-Jul-2008	08826581.4		

Patent Reference	Jurisdiction	Filed Date	Application Number	Grant Date	Patent Number
113393EP	European Patent	17-Jul-2008	08796221.3		
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